

**UNITED STATES ARMY  
MEDICAL RESEARCH AND MATERIEL COMMAND**

**USAMRMC**



**A DIRECTORY OF THE CAPABILITIES  
OF THE  
HISTORICALLY BLACK COLLEGES AND UNIVERSITIES,  
MINORITY INSTITUTIONS,  
HISPANIC SERVING INSTITUTIONS,  
AND  
TRIBAL COLLEGES AND UNIVERSITIES  
(HBCUs/MIs/HSIs/TCUs)**

**November 2003**

## **ACKNOWLEDGEMENTS**

**The United States Army Medical Research and Materiel Command (USAMRMC) and Associate Director, Small and Disadvantaged Business Utilization (ADSADBU) are extremely appreciative for the amount of time and effort dedicated to compiling the required information for the USAMRMC Geographical Medical Research Capabilities Update. This document includes a listing of Historically Black Colleges and Universities, Minority Institutions, Hispanic Serving Institutions and Tribal Colleges and Universities.**

**The synergistic efforts of Eagle Group International (Mr. James O. Farr, Jr. and Ms. Cara R. Heinrich) and Early Morning Software (Mr. Murali Dronamraju and Mr. John Pencola) are vital components that contributed to the publishing of this essential document.**

**Jerome K. Maultsby  
Associate Director,  
Small and  
Disadvantaged  
Business Utilization  
US Army Medical  
Research and  
Materiel Command**

## TABLE OF CONTENTS

### INTRODUCTION

#### SECTION I

**Alphabetical listing of institutions with the most significant research medical and allied sciences laboratory capabilities**

**Alabama Agricultural and Mechanical University**

**Charles R. Drew University**

**Clark Atlanta University**

**Florida Agriculture and Mechanical University**

**Howard University**

**Meharry School of Medicine**

**Morehouse School of Medicine**

**Southern University at New Orleans**

**Texas Southern University**

**University of Hawaii at Manoa**

**University of Puerto Rico**

**University of Texas Health Sciences Center, San Antonio**

**Xavier University**

#### SECTION II

**Alphabetical listing of institutions with medium/minimal related research medical and allied sciences laboratory capabilities**

**Alcorn State University**

**Bennett College of NC**

**Bethune-Cookman College**

**Central State University**

**Cheney University**

**Claflin College**

**Delaware State University**

**Dillard University**

**Fayetteville State University**

**Fisk University**

[Fort Valley State College](#)  
[Grambling State University](#)  
[Hampton University](#)  
[Inter-American University of Puerto Rico](#)  
[Jackson State University](#)  
[Jarvis Christian College](#)  
[Johnson C. Smith University](#)  
[Lincoln University of MO](#)  
[Mississippi Valley University](#)  
[Morehouse College](#)  
[Morgan State University](#)  
[Morris Brown College](#)  
[Norfolk State University](#)  
[North Carolina A&T](#)  
[North Carolina Central University](#)  
[Oakwood College](#)  
[Paine College](#)  
[Prairie View A & M College](#)  
[Saint Augustine College](#)  
[Selma University](#)  
[South Carolina State College](#)  
[Southern University of Shreveport](#)  
[Stillman College](#)  
[Tennessee State College](#)  
[Tuskegee University](#)  
[University of Arkansas-Pine Bluff](#)  
[University of the District of Columbia](#)  
[University of Maryland Eastern Shore](#)  
[The University of Texas at El Paso](#)  
[Virginia State University](#)  
[West Virginia State College](#)  
[Wilberforce University](#)  
[Winston-Salem State University](#)

### **SECTION III**

**Alphabetical listing of all of the "other" Institutions.**

[Alabama State University](#)  
[Albany State College](#)

[Allen University](#)  
[Atlanta Metropolitan College](#)  
[Barber-Scotia College](#)  
[Benedict College](#)  
[Bluefield State College](#)  
[Bowie State University](#)  
[California State Polytechnic University](#)  
[Carolina Regional College, U.P.R](#)  
[College of Aeronautics](#)  
[College of Santa Fe](#)  
[Colorado State University-Pueblo](#)  
[Concordia College](#)  
[Coppin State College](#)  
[Edward Waters College](#)  
[Elizabeth City State University](#)  
[Florida International University](#)  
[Florida Memorial College](#)  
[Harris-Stowe State College](#)  
[Huston-Tillotson College](#)  
[Kentucky State University](#)  
[Lane College](#)  
[Langston University](#)  
[Lincoln University PA](#)  
[Livingstone College](#)  
[Miles College](#)  
[Morris College](#)  
[New Mexico Highlands University](#)  
[New Mexico State University](#)  
[Northeast Indian College](#)  
[Pan American University](#)  
[Paul Quinn College](#)  
[Philander Smith College](#)  
[Rust College](#)  
[Saint Paul's College](#)  
[San Diego State University](#)  
[Savannah State College](#)  
[Shaw University](#)  
[Si Tanka University](#)  
[Sojourner-Douglas College](#)  
[Southwest Texas Junior College](#)

[Spelman College](#)  
[Talladega College](#)  
[Texas A&M University – Corpus Christi](#)  
[Texas A&M University – Kingsville](#)  
[Texas College](#)  
[The National Hispanic University](#)  
[University of Guam](#)  
[University of La Verne](#)  
[University of New Mexico](#)  
[University of the Virgin Islands](#)  
[Virginia Union University](#)  
[Voorhees College](#)  
[Wiley College](#)

#### **SECTION IV**

**Alphabetical summary of each institutions' medical and allied sciences laboratory capabilities**

#### **SECTION V**

**Alphabetical listing of institutions' medical and allied sciences academic program index**

#### **SECTION VI**

**Map depicting geographic locations**  
**Matrix depicting colleges/universities and majors**  
**Profiles depicting institutional statistics**

### **INTRODUCTION**

#### **AN OVERVIEW**

**The United States Army Medical Research and Materiel Command's (USAMRMC) mission is to solve military medical problems of importance to the national defense and provide the Army and the nation the medical science and technology necessary for its forces to sustain decisive technological edge over potentially hostile forces. To**

**accomplish this mission, the Medical Research and Materiel Command (MRMC) has set a determined course to ensure that as much of the nation's available resources as possible are engaged in this very important endeavor to keep people healthy through effective and efficient health promotion and preventive medicine programs and an effective and efficient program to combat and treat diseases and care for combat casualties.**

**To this end, the MRMC wants to increase Historically Black Colleges and Universities (HBCUs), Minority Institutions (MIs), Hispanic Serving Institutions (HSIs) and Tribal Colleges and Universities' (TCUs) participation in their medical science and technology research programs; strengthen HBCUs/MIs/HSIs/TCUs' capabilities to conduct research; encourage research collaboration between principal investigators in HBCUs/MIs/HSIs/TCUs and the MRMC and other organizations and scientists; and, aid the development of medical science and technology programs and individuals, i.e., equipment loan, fellowship, etc.**

**As one of the initial steps in developing a comprehensive program to increase HBCUs/MIs/HSIs/TCUs' meaningful participation in the MRMC research efforts, the MRMC has worked diligently to update and provide a 2nd edition of: An Inventory of the Capabilities of the Historically Black Colleges and Universities and Other Minority Institutions (HBCUs/MIs): A NAFEO/DoD Survey, prepared by The National Association for Equal Opportunity in Higher Education (NAFEO). (NAFEO and DoD have given permission to use the information in their book as a basis for this updating). This capabilities book, which was funded by DoD was prepared to assist DoD and its prime contractors in identifying and utilizing the resources of the HBCUs/MIs/HSIs/TCUs to strengthen the defense of this country. The revised and current version of the book, which should be considered a living document that is being continually updated as new information is received and posted, will be used as a source document for HBCU/MI/HSI/TCU resource capabilities. To ensure that this document remains current, there will be continuous contact with relevant institutions, especially those most germane to the MRMC's mission accomplishment, NAFEO, The College Fund and other pertinent organizations.**

## **THE LAYOUT**

**The Capabilities Directory has been prepared in both hard copy and electronic format, accessible via the U.S. Army Medical Research and Materiel Command Small and Disadvantage Business Utilization website: <http://www.smallbusopps.army.mil>. The new electronic version will assist in the expeditious facilitation of future updates, as well as easy cross-reference for those individuals requiring summary information with minimal effort and time.**

**Hard copy versions will be distributed on a case-by-case basis, determined by the USAMRMC ADSADBU office.**

**This Capabilities Directory has been prepared in ‘electronic format’ to facilitate both usage and future updates. It is arranged in six major sections.**

## **SECTIONS**

- Section I** This section is an alphabetical listing of institutions with the most significant medical and allied sciences research laboratory capabilities. All institutions in this section have been accredited by their appropriate accrediting bodies.
- Section II** In this section is the alphabetical listing of institutions with medium to minimal medical and allied sciences laboratory research capabilities. Many individuals at these institutions are involved in varying degrees in research within their institutions and in collaboration with other institutions.
- Section III** Section III contains an alphabetical listing of all of the other institutions. Institutions listed in this section do not have appreciable medical and allied sciences laboratory research capabilities but may have individual researchers who have

**been or are involved with medical and allied science research or may have ongoing research in other than the medical and allied sciences areas.**

**Section IV** Listed in section IV is an alphabetical summary by institution of their medical and allied sciences laboratory capabilities. This section may be used as quick reference in determining, at a glance, various institutions' specific capabilities.

**Section V** Section V has the same information as Section IV but is arrayed alphabetically according to their medical and allied sciences academic programs, i. e., anatomy, biological sciences, medical chemistry, etc.

**Section VI** This section contains institutional profiles in the form of a chart/spreadsheet. These documents will indicate which institution is public, private, two-year program, four-year program four-year + graduate program, graduate/professional program student enrollment size, major course of study and land grant.

**While the main thrust of this book is to identify institutional capabilities, individual researchers with relevant research skills, talents, experience and capabilities have not been specifically identified and should not be ignored. In order to take advantage of all available resources and talents, a more detailed review of each institution's organizational and individual capabilities is required and a comprehensive database of ethnic/racial minority researchers be developed.**

**Personal visits have been made to many of the below listed institutions. While they acknowledged and accepted the challenge to improve relations between the MRMC and HBCUs/MIs/HSIs/TCUs, most made it clear that they expect to witness more than an initial visit and request for information and data about their institutions if this effort is to be successful. Many continue to emphasize the need for a more complete approach and program that will result in a more meaningful and**

**ongoing dialogue and rapport. Many believe they stand poised to be major contributors to help solve military medical problems of importance to the national defense and provide the Army and the nation the medical science and technology necessary to sustain decisive technological edge over potentially hostile forces.**

## SECTION I

### ALPHABETICAL LISTING OF INSTITUTIONS WITH THE MOST SIGNIFICANT RESEARCH MEDICAL AND ALLIED SCIENCES LABORATORY CAPABILITIES

#### ALABAMA A&M UNIVERSITY Huntsville, AL 35762

**Contact: Dr. Dorothy W. Huston**  
**Vice President for Research and**  
**Development**

**Telephone: (205) 372-5675**  
**Fax: (205) 372-5030**  
**Email: dhuston@aamu.edu**

#### INSTITUTIONAL RESEARCH CAPABILITY SUMMARY

Alabama A&M University (AAMU) offers doctoral degree programs in three areas. Physics with optics and materials science specialization (in the School of Arts and Sciences), Plant and Soil Sciences, and Food Science (both in the School of Agricultural and Environmental Sciences). Over the past decade, scientific research activity interest and support at AAMU has grown to a level of prominence among the Historically Black Colleges and Universities and other Minority Institutions. The number of new and continuation grants recently exceeded \$25.5 million in ongoing research activity. In addition, the AAMU Research Institute, the contracting arm of the University for applied research, generates another \$5 million in business each year. Major grantor agencies include the National Science Foundation (NSF), United States Department of Agriculture (USDA), Department of Education (DoEd), Department of Defense (DoD), National Aeronautics and Space Administration (NASA), Department of Energy (DoE), United States Agency for International Development (USAID), Health and Human Services (HHS), and the Department of the Interior. The Institution also has participated, since its founding, as a user in the Alabama Supercomputer Network. Other significant research involvement includes the establishment of a Center of Excellence in Nonlinear Optics and Nonlinear Optical Materials funded by NSF at more than \$10 million dollars, the establishment of an Eminent Scholars Chair in physics, solution crystal growth experiments which have flown aboard two U.S. Space Shuttle International Microgravity Laboratory missions, a Center for Applications in Remote Sensing, a Center for Environmental Research and Training, and an accredited and recognized Forestry and Ecology program which includes the only USDA – Forest Service Experiment Field Office located on an HBCU campus. The School of Engineering and Technology earned ABET accreditation for its mechanical and electrical engineering programs in 2001. Some specific problems currently under investigation at Alabama A&M are: Animal Biotechnology; Cryopreservation Methods on Embryo Development and Viability, Digital Optical Computing, Seamless 360 degree Imaging and Display, Optical Inter for Electronics and Optical Computers, and a solid-state 400-2000mm Turnable Laser and

Multi-channel. The management of research grants, contracts and sponsored programs is conducted through interactive cooperation among the academic, administrative and financial divisions of the University. Pre-award and post-award services are provided to researchers to ensure that proposals and grant or contract awards are developed, monitored, evaluated, and implemented properly, and that reports are prepared and submitted in a timely manner. The university possesses the necessary management infrastructure, facilities, expertise, interest and commitment to support and expand its research and development capability.

Additional information about the University's capabilities can be found at [www.aamu.edu](http://www.aamu.edu).

### **STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics	Optics Lasers Material Sciences	Doctorate

#### **Laboratories and Other Facilities and Equipment**

The Physics and Chemistry programs are housed in 71,000 sq. ft of a recently constructed research annex. They are supported by an array of specialized laboratories. Optics, Materials Science, and Lasers. The renovation of a Laboratory for Quantum Optics (18,000 sq. ft) will be completed by late 1996. This program houses the following centers. The Center of Excellence in Nonlinear Optics and Nonlinear Optical Materials. Howard A. Foster Center for Irradiation of Materials, and the Foundations for Information Noting and Discrimination Center.

#### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
M. Aggarwal	Ph.D.	Physics	Nonlinear Optical Material
H.J. Caulfield	Ph.D.	Physics	Optics
D. Lla	Ph.D.	Condensed Matter	Material Physics Physics
G. Jenkins	Ph.D.	Physics, Chemistry & Mathematics	Nonlinear Optics & Optics Materials
R.B. Lal	Ph.D.	Solid State Physics	Material Physics
C.T. Lee	Ph.D.	Physics	Theoretical Physics Quantum & Nonlinear Optics
L. Holland	Ph.D.	Physics	Material Physics

B.R. Reddy	Ph.D.	Physics	Laser Spectroscopy & Nonlinear Optics
A. Sharma	Ph.D.	Physics	Fiber Optics (Non Linear)
A. Tan	Ph.D.	Physics	
W.S. Wang	Ph.D.	Physics	Material Science and Crystal Growth, Crystallophysics, and Crystallochemistry; Non Linear Optical Materials
R. Zimmerman	Ph.D.	Physics	

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Plant & Soil Science	Soil Science Plant Science	Doctorate

### **Laboratories and Other Facilities and Equipment**

The Plant and Soil Science programs are supported by a variety of facilities. These include (10) ten specialized and well equipped laboratories for molecular genetics, plant cell and tissue culture, plant (stress) physiology soil microbiology, soil chemistry, plant growth chamber lab, plant pathology cytogenetics, photography and dark room. Approximately 10,000 sq. ft. of greenhouse space, an access to 1,000 acre agricultural research farm is also available. A microcomputer laboratory is available for lab analysis. Computer Assisted Instruction (CAI) and for automated literature retrieval. The program also houses Alabama Center for Application of Remote Sensing (ACARS) in which the use of satellite data and auxiliary information is utilized in resource management and environmental analysis.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Caula A. Beyl	Ph.D.	Pomology	Physiology
U.R. Bishnoi	Ph.D.	Agronomy	Seed Technology, Farming Systems
George Brown	Ph.D.	Forestry	Forest Genetics, Biometry
T.L. Coleman	Ph.D.	Soil Science	Remote Sensing
M. Floyd	Ph.D.	Biochemistry	Soil Microbiology
D. Mays	Ph.D.	Agronomy	Crop Production
R.P. Pacumbaba	Ph.D.	Plant Pathology	
K.C. Reddy	Ph.D.	Agronomy	Crop Production

V.T. Sapro	Ph.D.	Agronomy	Plant Breeding and Genetics
G.C. Sharma	Ph.D.	Horticulture	Physiology and Breeding
J.W. Shuford	Ph.D.	Soil Fertility	
K.M. Solimon	Ph.D.	Genetics	
R.W. Taylor	Ph.D.	Soil Chemistry	Fertility

**PROGRAM 3**

**SPECIALTY**

**DEGREE LEVEL**

Food Sciences & Animal Industries

Food Sciences

Doctorate

**Laboratories and Other Facilities and Equipment**

The Food Science and Animal Industries occupy 15,000 sq. ft. of office and laboratory space. Laboratories include: nutrition, chemistry, sensory evaluation, quality control, small animal and pilot plant. Other specialized laboratories include microbiology, biotechnology, cereal quality, reproductive physiology, baking laboratory and animal nutrition. In the newly acquired 908 acre research farm, 407 acres have been allocated for Animal Science and state of the art barns and metabolic stalls for sheep and goat research. This program houses a Center for Molecular Biology.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
A. Felix	Ph.D.	Animal Nutrition	Soybean Straw Utilization and Sweet Sorghum Silage Nutrition of Sheep and Goats
A. Bhunia	Ph.D.	Food Microbiology/ Immunology	Food Safety, Microbiology Immunology, Tissue Culture
M.E. Castell-Perez	Ph.D.	Food Engineering	
C. Chawan	Ph.D.	Nutrition Physiology	Nutrition
H. Dodo	Ph.D.	Food Biotechnology/ Plant Molecular Biology	
J.U. Johnson	D.V.M.	Veterinary/Physiology	
C.V. Nwosu	Ph.D.	Lipid Chemistry	
D.R. Rao	Ph.D.	Nutrition	Lactose Maldigestion; Preservation of Chicken Meat by Irradiation Nutrition and Cancer

Ruvuna	Ph.D.	Animal Genetics	
O.G. Sanders	Ph.D.	Food Science/Nutrition	Antioxidant: Green leafy Vegetables: Isolation Identification of flavor Compounds: Nutritional Disorders in African Americans
G. Sunki	Ph.D.	Food Microbiology	Shelf Life Extension of Food and Food Preservation
L.T. Walker	Ph.D.	Food Science & Technology	

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

# CHARLES R. DREW UNIVERSITY

*Data from 1996*

**Contact: Mr. Sac Carreathers**  
**Director of Research**

**Telephone: (213) 563-9361**  
**Fax: (310) 652-5236**

## INSTITUTIONAL RESEARCH CAPABILITY SUMMARY

The Charles R. Drew University of Medicine and Science was incorporated in 1966, and with the opening of its teaching hospital, the Martin Luther King, Jr., General Hospital in 1972, began offering postgraduate medical education programs. The University has expanded to include 15 postgraduate or residency training programs, a graduate medical education program, a College of Allied Health, and a number of community health education, research and service programs. Drew University School of Medicine was fully accredited by the Western Association of Schools and Colleges in 1995. Its mission was defined early in the University's history: "To conduct medical education and research in the context of service to a defined population and to train persons to provide care with competence and compassion to this and other under served populations." Toward this end, faculty researchers have developed such projects as the Medical Image Management System (MIMS). This project enables integrated management of medical images for clinician collaboration in the diagnosis and treatment of patients -CalREN. Drew University and King/Drew Medical Center is the recipient of the Computerworld Smithsonian Award for heroic achievement in information technology in the field of medicine. Ongoing research activity include grantor agencies as the National Science Foundation, the Office of Naval Research, the CalREN Network and the Breast Cancer Research Programs of the University of California. There is also significant collaboration at other institutions as UCLA on research projects.

## STRONG ACADEMIC PROGRAMS AND SPECIALTIES

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Academic & Clinical Medicine		Doctorate

### Laboratories and Other Facilities and Equipment

Medical Library with a comprehensive collection of journals and texts for use by medical center staff; a strong network of reciprocal services with other hospital libraries; Learning Resource Center which provides research services for the Medical Center in the areas of learning resources, computer training/technology assessment, computer assisted instruction, data base management, word processing, access to on-line information services, testing, education consultation, staff development, course development and directed teaching. Collaboration at other institutions as UCLA on research projects.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Samuel J. Shacks	Ph.D.	Molecular Biology	Cellular, Humoral Immune Function in and Pediatrics Cell Anemia
Lewis M. King	Ph.D.	Psychology	Bio-behavioral Maladaptation
George E. Locke	M.D.	Neurosurgery	Traumatic Epilepsy Centers
Teiichiro Fukushima	M.D.	Obstetrics/Gynecology	Multidisciplinary Research Center
Jack Sklansky	Sc.D.	Radiology	Computer Teleradiology: Two-Resolution Detection Electrical Engineering of Lung Tumors in Chest Radiographs
Jack I. Eisenman	M.D.	Radiology	Teleradiology
Anthony C. Disher	M.D.	Radiology	Diagnostic Radiology
Joel B. Swartz	Ph.D.	Biostatistician	Family Medicine

**Recent DoD/Other Contract/Grant/Procurement Experience**

<b>Agency:</b>	NSF	
<b>Funding Level:</b>	\$330,000	<b>Year:</b> 1992-1996
<b>Project Director:</b>	Dr. Jack Sklandky	
<b>Title of Project:</b>	Biologically Inspired Classifier	
<b>Agency:</b>	Office of Naval Research	
<b>Funding Level:</b>	\$259,000	<b>Year:</b> 1995-1997
<b>Project Director:</b>	Dr. Jack Sklandky	
<b>Title of Project:</b>	Line Detection and Genetic Feature Selection for Analysis of Aerial Images	
<b>Agency:</b>	CalREN Network	
<b>Funding Level:</b>	\$400,000	<b>Year:</b> 1995-1997
<b>Project Director:</b>	Dr. Jack I Eisenman	
<b>Title of Project:</b>	Information Network, Los Angeles County, Department of Health Services	

**Agency:** Breast Cancer Research Program of the University of California

**Funding Level:** \$547,687 **Year:** 1996-1999

**Project Director:** Dr. Anthony Disher

**Title of Project:** Improving Access to Mammograms in Urban Under served Populations

**CLARK ATLANTA UNIVERSITY**  
**Atlanta, GA 30314**

*Data from 1996*

**Contact: Dr. Kofi B. Bota**  
**Vice President for Research and**  
**Sponsored Programs**

**Telephone: (404) 880-6996**  
**Fax: (404) 880-6880**  
**Email: kbota@cau.edu**

**INSTITUTIONAL RESEARCH CAPABILITY SUMMARY**

Clark Atlanta University (CAU) is a comprehensive, private, urban, coeducational institution of higher learning with a predominantly African American heritage. It is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelors, masters and doctoral degrees through the schools of Arts and Sciences, Business Administration, Education, International Affairs and Development, Library and Information Studies and Social Work. The campus is located on more than 67 acres in the Atlanta University Center, the largest consortium of historically African American colleges and universities in the U.S. The buildings include the Research Center for Sciences and Technology. It is a modern 200,000 square foot facility that contains laboratories and support facilities for research in the following areas: Chemical Sciences, Basic Energy Sciences, Materials Sciences, Environmental Sciences, Computational and Information Sciences, Telecommunications, Engineering Sciences, Biomedical Sciences and Biotechnology. In the most recent comparison of Universities by the National Science Foundation, the institution led the country's historically black colleges and universities in receiving Federal grants for science and engineering. Clark Atlanta has built a significant base for research and development (R&D) in the sciences and engineering since 1988-1989. It has had notable success in obtaining multi-year competitive research contracts and individual faculty grants and contracts in the biomedical, physical, mathematical, information, engineering, materials, and geophysical sciences from federal agencies and industry. The primary focus of these grants is fundamental and applied research and the related development of human resources, in biology, chemistry, physics, mathematics and computing, materials science, engineering, and geophysical sciences. These successes have elevated the University from twentieth position among HBCUs in terms of federal obligations in R&D funds in FY 1980, with \$800,000, to second position among HBCUs in FY 1990, with \$7,800,000, in federal obligations in R&D funds, almost a ten fold increase in ten years. In Spring 1994, the University completed construction of a 200,000 sq. ft. Research Center for Science and Technology to provide research laboratories, conference rooms, and faculty offices, among which is a National Institutes of Health (NIH) Research Center for Minority Institutions with a focus on molecular medicine and environmental health sciences and toxicology.

## STRONG ACADEMIC PROGRAMS AND SPECIALTIES

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Biology	Cellular, Molecular and Developmental	Doctorate

### Laboratories and Other Facilities and Equipment

Structural Biochemistry Laboratory includes a Beckman Model E Analytical Ultracentrifuge, and LKB Densitometer interfaced to an IBM XT Computer, a Beckman DNA Synthesizer and Hewlett-Packard GC/Mass Spectrometer. The laboratory facilitates the identification of products of the metabolism of xenobiotics, in addition to services for DNA sequencing and the synthesis of oligodeoxynucleotides.

### Researchers: Academic Background & Research Specialties

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
John M. Browne	Ph.D.	Cell Biology	Translational; Contranlational, Post-Translational Molecular Development Levels; Control of Protein Synthesis; Translocation Endomembranes, Terminal Glycosylation; Protein Biochemistry of Hepatic and Mammary Tumerogenesis
Arthur Williams	Ph.D.	Molecular Biology	Gene Structure; Molecular Regulation of Prokaryotic; Gene Expression; Adenyl Cyclase; CAMP Controls; Amino Acid Biosynthesis; Amino Acyl-tRNA Synthetase Formation; Utility of Molecular cloning; Biotechnology

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry	Chemistry and Polymer Chemistry and Physical Chemistry	Doctorate

### **Laboratories and Other Facilities and Equipment**

Chemical Sciences Laboratory located in the 200,000 square foot Research Center for Science and Technology. It is a new state-of-the-art facility.

### **Researchers: Academic Background & Research Specialties**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
William V. Dashek	Ph.D.	Plant Physiology	Photochemical & Microbial Composition of Grain Dust; Mechanism of Sulfur Dioxide-Induced Leaf Injury and the Consequent Amino Acid Accumulation; Aflatoxia Carcinogenesis and Metabolism, Fungi Enzymes in Wood Decay, Fertilization in Loblolly Pines
Yitharek Habte-Mariam	Ph.D.	Physical Chemistry	Synthesis of Si-C-N Homopolymers/Copolymers, Solution Characterization by NMR, FT-IR Pyrolytic Conversion of the Precursors to Ceramic Materials Product/Characterization by FT-IR
Frank Cummings	Ph.D.	Inorganic Chemistry	Photochemistry of Iron Complexes; Photochemistry & Electronegativity and Chemical Reactivity
Juarine Stewart	Ph.D.	Biochemistry	Carcinogenic/Non-Carcinogenic Enzyme Inducer on the Metabolism & Ultimate Activation of Carcinogens and Mutagens and the Analysis of the Effect of Inducers (singly or combined) on Gene Expression

Mark Mitchell	Ph.D.	Analytical/Physical Chemistry	Optical Spectroscopic Techniques for Photophysics, Photochemistry and Surface/Molecule Interactions
Cass D. Parker	Ph.D.	Analytical/Physical Chemistry	Methodology Applied to Environmental Problem Solving
Roosevelt Thedford	Ph.D.	Bioinorganic/Chemistry	Nucleic Acid Studies, Synthesis
Reynold Verrett	Ph.D.	Biochemistry Bioinorganic Biochemistry	Properties and Cytotoxicity Biochemistry of Cell Membranes, Function of Cytotoxic T Lymphocytes and other Immune Cells
Eric A. Mintz	Ph.D.	Inorganic Chemistry	Homogeneous, Anchored Catalysis, and Enantio-Selective Catalysis
Rosemarie Szostak	Ph.D.	Inorganic Chemistry	Synthesis, Structure and Applications of Zeolites
Godfried M.K. Abotsi	Ph.D.	Industrial Science	Material and Heterogeneous Catalysis, Waste Water Decontamination, Abatement of Nitrogen and Sulfur Oxide Emissions
Yitbarik Habte-Mariam	Ph.D.	Material and Industrial Science Industrial Science	Preceramic Polymers Precursor-to Ceramic Conversion Processes
Xiu-Ren Bu	Ph.D.	Organic/Polymer Chemistry	Bioorganic, Organometallic Polymers, Asymmetric Catalysis, and LB Molecular Assembly
Issifu Harruna	Ph.D.	Organic/Polymer Chemistry	Synthesis and Characterization of liquid Crystalline Polymers, Synthesis of Antiviral and Antibacterial Compounds
Ishrat M. Khan	Ph.D.	Organic/Polymer Chemistry	Synthetic and Mechanistic Organometallic Chemistry and Metal Sequestering Polymer

Eric A. Mintz	Ph.D.	Organic/Polymer Chemistry	Synthetic and Mechanistic Organometallic Chemistry and Metal Sequestering Polymers
Yi Pang	Ph.D.	Organic/Polymer Chemistry	Pre-ceramic Polymers, Conducting Polymers and Organosilicon Chemistry
Augusto Rodriguez	Ph.D.	Organic/Polymer Chemistry	Synthetic Methods, Sulfated Allen Chemistry, Synthesis of DNA Cleaving Agents, and Peroxide Chemistry

### **PROGRAM 3**

### **SPECIALTY**

### **DEGREE LEVEL**

Computer & Mathematical Sciences	Artificial Intelligence Pattern Recognition Optimization Theory	Masters
----------------------------------	---	---------

### **Laboratories and Other Facilities and Equipment**

Computer Research Laboratory supports its unique data processing requirements with a DEC VAX 11/780 with an 8MB processor, a 21S MB removable disk drive and a S77MB fixed disk drive and a tape drive; The system uses DEC's VMS operating system and is connected to the Atlanta University Center LAN.

### **Researchers: Academic Background & Research Specialties**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Abdulalim Shabazz	Ph.D.	Natgenatucak Analysis	Hermitian Forms
Magdi M. Morsi	M.S.	Computer Science	Distributed Object-Base Database Management System
Negash G. Medhin	Ph.D.	Mathematics	Nonlinear Control; Parameter Estimation; Time-Lag Control Problem; Differential Games
Nazir Warsi	Ph.D.	Math/Computer Science	Computation in Optimization-Artificial/Machine Intelligence

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Physics	Mathematical Physics Elementary Particles Solid State, Physics, Polymer Physics, and Accelerator, and Atomic and Molecular Physics	Masters

### **Laboratories and Other Facilities and Equipment**

The multi-user facility includes a Bruker 200 MHz solid state instrument for Performing high resolution NMR studies on solids. Because of the high resolution capabilities, many physical chemists and biochemists the Atlanta area obtain NMR spectra; The Electron Microscope facility is a multi-user high technology facility with ancillary equipment items for the microscope; Equipped with darkroom, which facilitates its most efficient use for resolving the structure of normal and cancer cells.

### **Researchers: Academic Background & Research Specialties**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Afred Msezane	Ph.D.	Physics	Small-Angle Electron Scattering
Carlos R. Handy	Ph.D.	Physics	Analytical-Numerical Analysis of Singular Strongly Coupled ODEs and PDEs

<u>PROGRAM 5</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business Administration	Management Information System Marketing, Finance and Banking	Masters

### **Laboratories and Other Facilities and Equipment**

Telecommunications Laboratory

### **Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Thomas C. Neil	Ph.D.	Management	Real Estate Brokerage Management Seminars; Monitoring Real Estate

Licensing Schools; Monitoring of Self-Behavior

Alex Williams      Ph.D.      Finance/Economics      International Finance and Banking

<u>PROGRAM 6</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Education	Administration Reading Special/Exceptional Education	Doctorate

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Brenda Rogers	Ph.D.	Special Education	Education of Minority Handicapped Children; Development, Validation of Models for Training Personnel to Serve Handicapped Children; Validation of Curriculum and Approaches for Effective Instruction of Handicapped Children

<u>PROGRAM 7</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Library & Information Studies	Academic Libraries Public Libraries School Libraries Special Libraries	Specialist

**Laboratories and Other Facilities and Equipment**

The Center for Academic Computing is a resource for training faculty from minority institution in the primary aspects of CAI and contains an Integrated Computerized Instructional Support System (ICISS). In addition, the Center pilot tests and evaluates the effectiveness of ICISS components and establishes Personal Computer Labs by producing materials to expand the ICISS Library. The Center also provides computer literacy training for students.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Work	Clinical, Administration	Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Humanities	Afro-American Studies	Doctorate

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
David Dorsey	Ph.D.	Latin & Greek	Anglophobe African Literature: Humanities as Intellectual Disciplines
Carolyn Fowler	Ph.D.	Romance Language	Francophone African and Caribbean Literature, History of Black Aesthetic Principles & Criticism in the United States, Afrohipanic Literature for the Western Hemisphere

<u>PROGRAM 10</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
International Affairs	Political Systems & Development	Doctorate

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<u>PROGRAM 11</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Sociology	Gerontology Aging	Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<u>PROGRAM 12</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Criminal Justice	Criminal Justice Administration	Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Julius Debro	Ph.D.	Criminology	Street Team AIDS Reduction Program
Edward L. Davis	Ph.D.	Decision Sciences	Statistical Applications and Systems Theory

## Recent DoD/Other Contract/Grant/Procurement Experience

**Agency:** Department of the Army  
**Funding Level:** \$373,858 **Year:** 1988  
**Project Director:** Dr. Nathanael Pollard, Jr.  
**Title of Project:** Campus Relations Through Teleconferencing and Systems (CARTS)

**Agency:** Department of NAVY (NRRR)  
**Funding Level:** \$140,200 **Year:** 1987-1989  
**Project Director:** Dr. Ronald Mickens  
**Title of Project:** Nonlinear, Singular Oscillatory System

**Agency:** NIH  
**Funding Level:** \$ **Year:** 1996  
**Project Director:** Dr. Juanne Stewart  
**Title of Project:** Research Center for Minority Institutions

**Agency:** NIH  
**Funding Level:** \$ **Year:** 1996  
**Project Director:** Dr. John Brown  
**Title of Project:** Minority Biomedical Research Support

**Agency:** EPA  
**Funding Level:** \$ **Year:** 1996  
**Project Director:** Dr. Kofi B. Bota.  
**Title of Project:** Center for Environmental Policy, Education, and Research

**Agency:** U.S. Army  
**Funding Level:** \$ **Year:** 1996  
**Project Director:** Dr. Augusto Rodriquez  
**Title of Project:** Sensors, Energetics, Aerosols and Systems

**Agency:** U.S. Army  
**Funding Level:** \$ **Year:** 1996  
**Project Director:** Dr. Nazir Wasi  
**Title of Project:** Center of Excellence for Research in Information Sciences

FLORIDA A & M UNIVERSITY  
Tallahassee, FL 32307

Contact: Dr. Phyllis Gray-Ray  
Division of Sponsored Research

Telephone: (850) 599-3531  
Email: Phyllis.ray@famuc.edu

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Allied Health Sciences	Cardiopulmonary Sciences Health Care Management Health Information Management Health Sciences Occupational Therapy Physical Therapy	

**Laboratories and Other Facilities and Equipment**

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Engineering Sciences Technology & Agriculture		

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Environmental Science Institute		

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Engineering		Bachelors Masters Doctoral

### **Laboratories and Other Facilities and Equipment**

Arsenic Laboratory, Biomagnetic Engineering Laboratory, Computer Security Research Lab, Electromagnetics Research Lab, Electronic Materials and Devices Lab, Random Number Generation Research Lab, Information Processing and Transmission Engineering Research Lab, Design for Environmentally Conscious Mfg Research, Affordable Composite Manufacturing, Florida Advanced Center for Composite Technologies, Fluid Mechanics Research Lab.

#### **Chemical Engineering Labs:**

Nuclear Magnetic Resonance Laboratory, Pulsed Corona Laboratory, Polymer Characterization Laboratory, Electro-Chemical Engineering Laboratory, Process Control and Optimization Laboratory, Fluid Dynamics and Hydrocyclone Laboratory.

#### **Biomedical Engineering Labs:**

Cellular and Tissue Engineering Laboratory, Drug Delivery Systems Laboratory

#### **Civil and Engineering Lab:**

Wind Hazard and Earthquake Engineering Lab (WHEEL)

#### **Industrial Engineering Labs:**

Design for Environmentally Sonscious, Manufacturing Research, Affordable Composite Manufacturing, Florida Advanced Center for Composite Technologies.

### **Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Nursing		Bachelors

### **Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

**PROGRAM 6**

**SPECIALTY**

**DEGREE LEVEL**

Journalism

Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

**PROGRAM 7**

**SPECIALTY**

**DEGREE LEVEL**

Pharmacy

Masters  
Doctoral

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

**HOWARD UNIVERSITY**  
**Washington, D.C.**

<b>Contact: Dr. Arthur S. Paul</b>	<b>Telephone: (202) 806-5567</b>
<b>Interim Associate Provost</b>	<b>Fax: (202) 806-5523</b>
<b>Office of Research Administration</b>	<b>Email: apaul@howard.edu</b>

**INSTITUTIONAL RESEARCH CAPABILITY SUMMARY**

Howard University, established in 1867, is a private fully accredited comprehensive research university, with a commitment to educating students for leadership and service to our nation and the global community. Classified as a Doctoral/Research-Extensive University by the Carnegie Foundation, Howard University recognizes that research is a major function of the university and that research is essential to the process of teaching, learning and establishing frontiers of new knowledge and technology. The graduate students form the backbone of the research infrastructure because they are involved in active research programs on campus. The University has three major campuses that houses the University's five colleges and seven schools, a TV station, a radio station, a 500-bed teaching hospital, and a library system that includes undergraduate and engineering libraries with two new state-of-the art libraries for health sciences and law. The University's colleges (Arts and Sciences, Engineering, Architecture and Computer Sciences, Medicine, Pharmacy, Nursing and Allied Health Sciences) and schools (Business, Communications, Divinity, Education, Graduate, Law, and Social Work) interact collaboratively with many government research institutions as the National Institutes of Health, the Naval Medical Center, Walter Reed Army Medical Center, Consortium of Universities, and Universities in the Washington Metropolitan Area, i.e. Georgetown, George Washington, and Johns Hopkins.

The Howard University Cancer Center (HUCC) is the leading Institute of Research in the causes of cancer in African-American populations and is actively involved in national cooperative clinical trials. The HUCC has also expended involvement of research to international health as a result of intense global concern about rising mortality of some cancers. The model that guides the HUCC addresses science from the bench to the bedside to the community. It promotes the intermingling of sciences such as nutrition, epidemiology, toxicology, cell biology, molecular genetics and cytogeneses to provide new insights into human cancer risk assessment and risk management approaches. Of significant achievement are the Women's Health Initiative which is a major research study of women's health, and the Howard University/Johns Hopkins Partnership.

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Microbiology	Virology Immunology Cell and Molecular Biologv	Doctorate

Pathogenic Microbiology  
Molecular Genetics  
Genetic Epidemiology  
Statistical Genetics

### **Laboratories and Other Facilities and Equipment**

The Department of Microbiology facilities are located in the College of Medicine, primarily on the 3<sup>rd</sup> floor of the Numa P.G. Adams Pre-Clinical Bldg. with additional faculty office/laboratory space on the 3<sup>rd</sup> floor of the Seeley G. Mudd Bldg. Some faculty members have office and research laboratory space located in the Cancer Center and Howard University Hospital. These comfortable, modern, and well-designed rooms house the administrative offices and faculty research laboratory- office suites. A large cell biology-virology laboratory and an electron microscopy suite are housed in separate clean rooms, each with its own air-handling system. Microbiology is also the administrative department for the newly formed National Human Genome Center (NHGC) at Howard University. This facility occupies ~ 15,000 sq feet of newly renovated office and research laboratory space located on the 6<sup>th</sup> floor of the Cancer Center Bldg. and 2<sup>nd</sup> floor of bldg. located at 2216 Sixth Street, NW. Graduate students are provided access to all research laboratories and computer network services from strategically placed workstations throughout these laboratories and facilities. The NHGC contains a large state-of-the-art DNA sequencing and genotyping facility and additional faculty office and research space for human molecular genetics, molecular phenotyping, and computational biology. As the only center of its kind in a predominantly African American university, the formal announcement and dedication of the NHGC in May 2001 was a landmark beginning for human genome research at Howard and another historic 'first' for African Americans, this nation, and the world. The NHGC in conjunction with the College of Medicine recently launched plans for the Genomic Research in the African Diaspora (GRAD) BioBank, a secured web-based genetic banking infrastructure supported by a customized information technology platform. The GRAD BioBank will support translational genomics and clinical research on diseases common in African Americans, such as prostate cancer, asthma, diabetes, and hypertension.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Warren K. Ashe	Ph.D.	Virology and Immunology	Neurobehavioral and Immunology Effects of Parental Cocaine Exposure in Rats
W. Lena Austin	Ph.D.	Medical Mycology	Development of a rate model for Sub-Acute Exposures to Toxic

Earl F. Bloch	Ph.D.	Immunology	Organophosphate C5b-7 and C5b-8 Precursors Publication of the Membrane Attack Complex (C5B-9) are Effective Killers of <i>E.</i> <i>Coli</i> J5 During Serum Incubation
George E. Bonney	Ph.D.	Biostatistics and Genetics	Ascertainment Corrections Based on Small Family Units
Agnes A. Day	Ph.D.	Cellular Molecular Biology	Expression of Transforming Growth- Alpha-Alpha-Antigens mRNA inhibits the estrogen-induced production of TGF-alpha and estrogen-cancer cells
Georgia M. Dunston	Ph.D.	Human Genetics/Immunogenetics	Genomic Research in the African Diaspora (GRAD) BioBank: a Population- based resource for translational genomics in clinical research
Paulette Furbert- Harris	Ph.D.	Cellular Immunology Immunogenetics	A genome search for asthma susceptibility loci in ethnically diverse populations
Morris Hawkins, Jr.	Ph.D.	Human Molecular Genetics	Gene for Monoamine Oxidase Type A Assigned to the Human "X" Chromosome
George H. Holmes	Ph.D.	Molecular Biology	Oxidative and Other DNA Damages as the Basis of Aging
Kunle Kassim	Ph.D.	Parasitology	Class-Specific Antibodies to <i>Bordetella Pertussis</i> , <i>Hemaophilus influenza</i> (type b), <i>Streptococcus</i> <i>pneumonia</i> , and <i>Neisseria</i> <i>Meningitides</i> in Human Breast Milk and Maternal- Infant Sera

Ricky A. Kittles	Ph.D.	Biological Science	Cladistic Association Analysis of Y Chromosome Effects on Alcohol Dependence and Related Personality
Floyd J. Malveaux	Ph.D.	Allergy and Immunology	Adherence to Therapy and Access to Care: The Relationship to Access Asthma Morbidity in African-American Children
Philip R. Roane	Ph.D.	Virology	Acceleration of Adenovirus Replication and Increased Virion Production by Treatment with the Steroid Hormone 17 Beta-Estradiol
Charles N. Rotimi	Ph.D.	Epidemiology	The Quantitative Trait Locus on Chromosome 2 for Serum Leptin Levels in Confirmed African Americans
John T. Stubbs, III	Ph.D.	Molecular and Cell Biology	Characterization of Native and Recombinant Bone Sialoprotein: Delineation of the Mineral-Binding and Cell Adhesion Domains and Structural Analysis of the RGD Domain
Stanley S. Tai	Ph.D.	Molecular Biology	Characterization of Hemin Binding <i>Activity of Streptococcus Pneumonia</i>
Willie Turner	Ph.D.	Virology	Cloning and Analysis of the Promoter Region of CXCR 4 a Co preceptor for HIV-1 Entry
Eustance A. Vanderpool	Ph.D.	Virology	Acceleration of Adenovirus Replication and Increased Virion Productions by Treatment with Steroids Hormone 17 Beta-Estradiol

Curla S. Walters	Ph.D.	Cellular Immunology	Natural Killer (NK) cell and Lymphokine Activated Killer (LAK) Cell Activity Against Melanocytes
------------------	-------	---------------------	--

**PROGRAM 2**

**SPECIALTY**

**DEGREE LEVEL**

Biochemistry  
Molecular Biology

Doctorate, Masters

**Laboratories and Other Facilities and Equipment**

Spacious laboratories are equipped with modern instruments that are used by both faculty and students in such research areas as macromolecules (structure and function), enzyme kinetics and mechanisms of action, hormonal control mechanisms, gene organization and expression, cancer research, drug metabolism, lipid metabolism, and clinical and nutritional biochemistry.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Cynthia K. Abrams	Ph.D.	Nutritional Biochemistry	Clinical Nutrition; Evaluation of Nutrition Status
Amha Asseffa	Ph.D.	Biochemistry	Biochemistry, Signal Transduction, Cell Cycle; Molecular Biology
Carol Whitfield Broome	Ph.D.	Molecular Biology	Genetics and Gene Expression of Breast Cancer in African Americans
W. Malcolm Bynres	Ph.D.	Biochemistry Molecular Biology	Structure and Function of Prokaryotic Metabolic Enzymes; Genes and Enzymes for Antibiotic Resistance and Biosynthesis
Marguerite W. Coomes	Ph.D.	Drugs Metabolism	Epidermal Enzymes: Protein Degradation Cytochrome P-450; Biochemical Education

Felix Friedberg	Ph.D.	Gene Expression	Mechanisms of Evolution, e.g. Multiple Genes Encoding Human Calmodulin; Bioinformatics
Matthew George, Jr.	Ph.D.	Molecular Genetics	Molecular Evolution; Isolation and Characterization of Animal Mitochondrial DNA; Gene Expression and Molecular Biology; Breast Cancer
James W. Mack	Ph.D.	Biochemistry	Protein NMR Studies of Molecules Structure and Dynamics; Protein-DNA Interactions; Thermodynamics of Protein Folding
Arvid K. Nandedkar	Ph.D.	Clinical Chemistry	Clinical and Biochemical Approaches to Patho-Toxicology Genesis of Microorganisms: Epilepsy and Drug Metabolism; Clinical Chemistry Test: Analytic Interpretations
Richard H. Pointer	Ph.D.	Endocrinology	Hormone Actions; Hormonal Regulation of Carbohydrate and Lipid Metabolism
Allen R. Rhoads	Ph.D.	Neurochemistry	Calcium Regulation/Signal Transduction Mechanisms; Affinity Chromatography of regulatory and Signal Transducing Proteins
Thomas E. Smith	Ph.D.	Biological Chemistry	Mechanisms of Action and Control of Enzymes: Structure-Function Relationships. Isolation of the Structural Gene Encoding a Mutant Form of Escherichia Coli Phosphoenolpyruvate Carboxylase Deficient in Regulation by Fructose 1.6-Bisphosphate:

			Identification of an Amino Acid Substitution in the Mutant
W. M. Southerland	Ph.D.	Biochemistry	Computer-Assisted Design of Biomolecules, Modeling and Dynamics of Proteins, Bioinformatics

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Cellular Molecular Developmental Ecological Evolutionary Plant Population	Doctorate, Masters

### **Laboratories and Other Facilities and Equipment**

Professionals trained in recombinant DNA techniques and in molecular biology conduct research and teach state-of-the-art project-oriented laboratory courses in molecular biology and genetics. The research is conducted in the areas of reproductive endocrinology cancer biology, developmental biology, and molecular genetics. Professionals trained in ecology and evolutionary and systematic biology train students and conduct research in terrestrial freshwater systems; arthropod community ecology; plant physiology and systematics; physiology of vision; plant reproductive ecology; neurobiology; herpetology; and paleobiology. The biology program is highly interdisciplinary; there is much collaboration with programs in the natural and biomedical sciences. Faculty members and students also conduct research in collaboration with faculty members at the Cancer Center and in medical school department. All equipment and instrumentation relevant to contemporary biology are available to graduate students through the facilities in Just Hall, affiliated biomedical departments and the NIH and other area research laboratories. Support facilities include a greenhouse, animal quarters, darkrooms, electron and microscopy suites, and a common laboratory equipment room.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Marjay D. Anderson	Ph.D.	Physiology	Comparative Biochemistry and Physiology of the Tribolium Species

Winston A. Anderson	Ph.D.	Cellular Biology	Reproductive Endocrinology
Theodore A. Bremner	Ph.D.	Molecular Genetics	Genetics and Biochemistry of Antioxidant Enzymes in Development and Neoplasia; Regulation of Gene Expression During Myeloid Differentiation
Leon A. Dickson	Ph.D.	Molecular Biology Biochemistry	Determination of the Molecular Basis of Genetics Diseases
Sissir K. Dutta	Ph.D.	Molecular Genetics	Nitrogen Fixation Studies; Microwave Radiation Effects; Molecular Genetics of Fungal Systems
Atanu Duttaroy	Ph.D.	Genetics	Genetics of Aging, Function of Manganese Superoxide Dismutase in Aging in <i>Drosophila Melanogaster</i>
William R. Eckberg	Ph.D.	Molecular Biology	Developmental and Molecular Biology, Control of Cell Division and the Role of Egg Organization in the Control of Development; Mechanism of Fertilization
Broderick E. Enbo	Ph.D.	Microbiology	Periplasmic Protein Characterization in Psychotropic Bacteria Pathogenic Fungi in Food Materials
William R. Gordon	Ph.D.	Plant Physiology	Secondary Metabolism in Duckweeds; Patho-Toxin Formation and Regulation in Dutch Elm Disease; Recombinant Studies in Plant Tissue Culture
Abner B. Lall	Ph.D.	Neuropathology	Neural Control of Visual Information in Fireflies and visually guided behavior
Clarence M. Lee	Ph.D.	Parasitology	Effect of Vitamin Deficiency on the

			Production of Antibodies against Trypanosomes
Mary A. McKenna	Ph.D.	Plant Ecology	Plant Ecology and evolution: Pollution Biology; Genetic and environmental effects on Pollen Growth
George A. Middendorf, III	Ph.D.	Ecology	Behavior and Ecology of Reptiles and Amphibians
Michael Paul	Ph.D.	Ecology	Urban Ecology; Effects of Urbanization on Water Quality
Raymond L. Peterson	Ph.D.	Plant Physiology	Salt Tolerance Mechanisms in Ferns and Fungi; Assay Techniques for Heavy Metals with Fern and Moss Spores; Allelopathy in Fern Gametophyte Morphogenesis
Muriel E. Poston	Ph.D.	Plant Physiology	Plant Systematics and Ecology; Floral Biology and Evolutionary Relationships in Neotropical Vascular Plant Families; Phenology of Fruiting in Flowering Plants
David Schwarzman	Ph.D.	Biogeochemistry	Geomicrobiology; Isotope Geology
Geraldine W. Twitty	Ph.D.	Genetics	Biology of Tardigrades
A. Norma P. Williams	Ph.D.	Genetics	Gene Regulatory Mechanisms in Yeast; Neuro-Spora Genetics

**PROGRAM 4**

Oncology/Cancer Center

**SPECIALTY**

**DEGREE LEVEL**

Doctorate

**Laboratories and Other Facilities and Equipment**

The Cancer Center is housed in a dedicated seven story 60,000 square foot building that houses oncologic clinics, 27 laboratories, 62 offices, 2 classrooms, conference rooms and a library, several shared equipment rooms with other 100 individual major equipment

items. Outpatient medical oncology services are provided in the chemotherapy infusion center.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Amha Asseffa	Ph.D.	Molecular Biology	Exploring Molecular Mechanisms of Antiproliferative and Antimetastatic Effects of Myeloid Leukemia and Colonic Neoplasia
Theodore Bremner	Ph.D.	Cellular Biology	Examining Redox Regulation of Gene Expression in Normal and Neoplastic Cells
Agnes Day	Ph.D.	Molecular Biology	The Regulation of Connective Protein Synthesis in Normal Malignant and Metastatic
Georgia M. Dunston	Ph.D.	Genetic Microbiology	Elucidating Gene Mapping of the Underlying Susceptibility to Breast Cancer in African American Women
Sisir Dutta	Ph.D.	Molecular Genetics	Examining the Human Health Effects of Electro pollution and Other Carcinogens
Paulette Fubert Harris	Ph.D.	Cellular Immunology	Evaluating the Composite of Cytokine Receptor Gene Expressions in Breast Cancer
Matthew George	Ph.D.	Molecular Biology	Metastasis Enhancement Through Transcriptional Regulation of ECM Protein Synthesis as a Direct Response to the Transformed States
Indra Poola	Ph.D.	Molecular Biology	Prognostic Factors in Breast Cancer

Rajagopalan Sridhar	Ph.D.	Radiation Biology	Developing Strategies for Overcoming Multi-Drug Resistance and Radio-Resistance of Tumors. Application of Electron Spin Resonance and to Study Drug Metabolism and Action
Duane Smoot	M.D.	Gastroenterology	Evaluating the Role of Helicobacter Pylori and Chemical Carcinogenesis in Gastric Cancer
Bailus Walker, Jr.	Ph.D.	Toxicology Epidemiology	Examining Environmental and Occupational Determinants of Cancer
Paul Wang	Ph.D.	Medical Physicist	Nuclear Magnetic Resonance Imaging and Spectroscopy in Cancer Research Including Differentiation of Tumors, Efficacy of Radiation Therapy and Drug Metabolism in Tumors

**PROGRAM 5**

**SPECIALTY**

**DEGREE LEVEL**

Pharmaceutical Sciences

Physical Pharmaceutics  
Pharmacokinetics  
Medicinal Chemistry  
Natural Products

Doctorate

**Laboratories and Other Facilities and Equipment**

A new Pharmaceutical Science Research laboratory was completed in July, 2002 with a funded grant from the National Institutes of Health, National Center for Research Resources and a matching grant from Howard University. This complete state-of-the-art facility with its numerous modern research equipment, computers, and accessories has the following laboratory components and suite:

1. General Research Laboratory – comprises eight new built-in-benches, each of which is equipped with reagent and storage shelves above the central portion of the benches. Outlets for gases and on-line computer access are available on all benches. Access to the laboratory, as well as all other research facilities require a key code.

2. Chromatography Laboratory – is located on the north side of the general laboratory dedicated for HPLC, GC and scintillation counting.
3. Hydrogenation Laboratory – is located on the north side of the general laboratory, equipped with a fume hood and two separate benches. This laboratory is dedicated to low-to-medium pressure hydrogenations.
4. Animal Procedure Laboratory – is located on the north side of the third floor and is separate from the previous units. There is a bench equipped with a reagent and storage shelf. This room is equipped with special lighting system for ease in performing animal surgery for cannulations, etc.
5. Laboratory Services Unit – is located on the Northwest portion of the third floor. It is equipped with a modern cold room. This facility will allow the performance of experiments involving thermo labile bioactive agents (proteins, enzymes, etc.) A Legaci™ refrigeration system is located in this laboratory which is capable of providing subzero temperatures.
6. Air Lock Suite – located on the Southwest portion of the third floor. The air lock suite comprise three components: (a) a space with a sink and water outlet and an icemaker; (b) a biohazard Laboratory with a Biosafety Cabinet and shower; and (c) a microscopy room.
7. Analytical Laboratory – equipped with two fume hoods and two flammable storage cabinets.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Emmanuel O. Akala	Ph.D.	Pharmaceutics	Drug Delivery; Polymeric Biomaterials (Hydrogels, Microspheres and Nanospheres); Controlled Drug Delivery and Drug Targeting; Nanotechnology
LaVerne Brown	Ph.D.	Medicinal Chemistry	Natural Products; Medicinal Chemistry
Muhammad J. Habib	Ph.D.	Pharmaceutics	Drug Delivery; Liposome Technology
Govind J. Kapadia	Ph.D.	Natural Product Medicinal Chemistry	Medicinal Chemistry; Natural Product Chemistry
Krishna Kumar	Ph.D.	Pharmaceutics	Pharmacokinetics; Biopharmaceutics; Drug Delivery
Kenneth R. Scott	Ph.D.	Medicinal Chemistry	Medicinal Chemistry; Molecular Modeling

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Laser Chemistry Biochemistry/Inorganic Organic Synthesis	Doctorate

### **Laboratories and Other Facilities and Equipment**

The Laser Chemistry laboratory equipped for advance research in laser Raman Spectroscopy and laser Photochemistry, is the Nation's first holographic grading triple rama monochromator (a device used in the study of optical fibers and glasses). Two laboratories with a combined total of 1240 sq. ft. for organic synthesis studies. There is a Shimadzu GC9A gas chromatograph and CR3A data processor, Varian 3700 dual column gas chromatograph, Varian model 90-P gas chromatograph, a miscrospinning band column, etc. The biochemistry studies are performed in two laboratories of 1100 sq. ft. that contain an E-9 electro spin resonance spectrometer, variable field pulse NMR spectrometer, Nicolet NT 200 NMR.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mahamed A. Ali	Ph.D.	Physical Chemistry	Quantum Chemistry, Atomic Structure and Spectra
Folahan O. Ayorinde	Ph.D.	Organic Chemistry	Mass Spectrometric Characterization and Applications of Triacylglycerol Oils. Development of Analytical Protocols for Non-Proteinaceous, Low-Molecular Weight (100-5000 Daltons) Compounds Using Matrix-Assisted Laser. Esorption/Ionization Time-of-Flight Mass Spectrometry. Synthesis of Oleo chemical Based Surfactants. Production of Biodegradable and Biocompatible Polyester Plastics from Vegetable Oils

Shawn M. Abernathy	Ph.D.	Physical/Inorganic	NMR Relaxation Studies of Paramagnetic Chemistry Transition Metal Complexes: NMR-Quantum, Computing: Magnetic Resonance Imaging
Oladapo Bakare	Ph.D.	Organic/Medicinal Chemistry	Combinatorial/Medicinal Chemistry
Raymond J. Butcher	Ph.D.	Inorganic Chemistry	Physical Inorganic Chemistry, Bioinorganic X-ray Crystallography
Helen L. de Clercq	Ph.D.	Physical Chemistry	Ion-Molecule and Ion-Surface Chemistry
Martin R. Feldman	Ph.D.	Organic Chemistry	Stabilities of Trivalent Carbon Species, Reactions of Compounds with Low-Valent Metal Ions, History of Chemistry
Yilma Gultneh	Ph.D.	Analytical/Inorganic	Bioinorganic/Analytical Chemistry Interface: Synthesis, Characterization and Reactivity Studies of Multinuclear (Cluster) Transition Metal Complexes That Model E Chemical Methods
Joshua B. Halpern	Ph.D.	Physical Chemistry	Chemical Physics and Kinetics. Photochemistry and Dynamics of Small Molecules and Radicals in the Gas Phase Laser Spectroscopy
John A. W. Harkless	Ph.D.	Physical Chemistry	Computational Physical Chemistry: Quantum Monte Carlo Studies of Molecular Systems
Paul F. Hudrlik	Ph.D.	Organic Chemistry	Synthetic Organic Chemistry, Organosilicon Chemistry Molecular

Manikam Krishnamurthy	Ph.D.	Inorganic Chemistry	Recognition Synthesis, Characterization, and Solution Chemistry of Coordination Compounds
Jason Shastri Matthews	Ph.D.	Organic Chemistry	Synthetic Organometallic Chemistry; Catalysis; Chemical Vapor Deposition of Electronic Materials
Dexter S. Moore	Ph.D.	Biophysical Chemistry	VCD of Polynucleotides DNA Interactions with Anticancer Drug Combinations
Vernon R. Morris	Ph.D.	Atmospheric	Atmospheric Chemistry, Interstellar Chemistry, Physical Chemistry, Photochemistry and Chemical Dynamics of Resolved Laser Spectroscopy, AB Initio and Quasi-Classical Trajectory (QCT) Calculations on Small Radicals. Field Measurements of Aerols and Trace Gases in the Troposphere and Stratosphere. Laboratory Studies of Aerosol-Gas Interactions
Jesse M. Nicholson	Ph.D.	Organic Chemistry	Reaction Mechanisms, Bio-Organic Chemistry
Robert C. Rosenberg	Ph.D.	Bioinorganic Chemistry	Structure, Mechanism Olfaction and Inhibition, and Regulation of Copper Containing Enzymes
Galina G. Talanova	Ph.D.	Analytical Chemistry	Analytical recognition and Separations of Hazardous Molecular and Ionic Species. Macro cvcle-Based Chemo

Dharmaraj Veeraraghavan	Ph.D.	Polymer	sensors. Supramolecular Chemistry Surface Modification, Thin Film and Coating, Analytical Chemistry Stability, Biomaterials
Yuan Yan	Ph.D.	Analytical Chemistry	Bioanalytical, Optical Spectroscopy, and Single Molecule Chemistry

**PROGRAM 7**

**SPECIALTY**

**DEGREE LEVEL**

Medicine

Dermatology  
Medicine

Doctorate

**Laboratories and Other Facilities and Equipment**

Spacious well-equipped laboratories available to investigators in the Howard University Hospital, Howard University Cancer Center, the Numa P.G. Adams Pre-clinical Building and the Seely G. Mudd Building.

**Researchers: Academic Background & Research Specialty (ies)**

**PROGRAM 8**

**SPECIALTY**

**DEGREE LEVEL**

Dental Education

Doctorate

**Laboratories and Other Facilities and Equipment**

Convertible clinic laboratory – multipurpose- where laboratory work (clinical fabrication), patient treatment and clinical research could take place. Fully equipped tissue laboratory where specimen preparation occurs for research and diagnostic purposes. Scanning Electron Microscopy Laboratory composed of two rooms, one housing the microscopy and the other for tissue preparation. New Faculty Research Facility. Five work station laboratory with fume hood; Animal Care Facility (renovated). Capable of housing various types of small animals. Includes two operative rooms, cage washer and other support areas.

**Researchers: Academic Background & Research Specialty (ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH SPECIALTY**

None indicated.

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Postgraduate Dental Program	Surgery Orthodontics Pediatric Dentistry General Practice Residency Advanced General Dentistry	Post-Doctorate

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

<b><u>PROGRAM 10</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Nutritional Sciences	Nutritional Sciences	Bachelors

**Laboratories and Other Facilities and Equipment**

Dry laboratory space with equipment for anthropometric measurement and computers (2IBP-PC) for computational analysis.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Barbara Harland	Ph.D.	Nutritional Sciences	Phytonutrients
Allan Johnson	Ph.D.	Nutritional Sciences	Prenatal Care and Nutrition
Eleanora Isles	Ph.D.	Nutritional Sciences	Dietary Habits
Enid Knight	Ph.D.	Nutritional Sciences	Substance Abuse and Nutrition

<b><u>PROGRAM 11</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Clinical Laboratory Science	Clinical Laboratory Science	Bachelors

**Laboratories and Other Facilities and Equipment**

Laboratory space for student practice with limited capability to support research.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Rochelle Glymph	BS, MT	Clinical Laboratory Science	HIV/AIDS, Incarcerated
Hemant Karnik	Ph.D.	Clinical Laboratory Science	Blood Pressure and Exercise
Marguerite Neita	Ph.D.	Clinical Laboratory Science	Immunology
Carol Porter	Ph.D.	Clinical Laboratory Science	HIV/AIDS

<b><u>PROGRAM 12</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Health Management	Health Management	Bachelors
Occupational Therapy	Occupational Therapy	
Physical Therapy	Physical Therapy	
Physician Assistant	Physician Assistant	
Radiation Medicine & Technology	Radiation Medicine & Technology	

**Laboratories and Other Facilities and Equipment**

There are two small research laboratories – one for blood pressure and exercise in B1 of Annex I, and another in 318 for lipids. There are some equipment pieces to do studies including treadmill, ergonomic equipment, and various pieces of equipment for blood studies.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Desmond Coverley	M.S.	Health Management	Substance Abuse
Ahmed Moen	Dr.PH	Health Management	HIV/AIDS, International Health
Felecia Banks	Ph.D.	Occupational Therapy	Faculty Development
Shirley Jackson	M.S.	Occupational Therapy	Critical Thinking, Tools and Concepts
Sherry Scott	Ph.D.	Occupational Therapy	Community Development

Steven Chesbro	Ed.D.	Physical Therapy	Health Promotion, Adult Education
Spiro Karavaras	M.S.	Physical Therapy	Exercise and Blood Lipids
Iwona Kasior	M.S.	Physical Therapy	Disabilities
Anne Reicheter	M.S.	Physical Therapy	Health and Minorities
Kamran Tavakol	Ph.D.	Physical Therapy	Exercise and Blood Lipids
Majid Ali	M.P.H.	Physician Assistant	Acupuncture
Marvin Barnard	M.D.	Medicine	Emergency Care
Peggy Valentine	EdD.	Physician Assistant	HIV/AIDS, Minority Health
Adrienne Harrison	M.Ed.	Radiation Therapy	Leadership Development of Students
Mattie Tabron	Ed.D.	Radiation Therapy	Ethics

### **Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** DoD  
**Funding Level:** \$542,856 (current budget period)      **Year:** 2001-2004  
**Project Director:** Flora A.M. Ukoli  
**Title of Project:** Dietary Fat and Vitamin E in Prostate Cancer Risk Among African Americans and West Africans: A Case-Control Study

**Agency:** DoD  
**Funding Level:** 348,041 (current budget period)      **Year:** 2002-2004  
**Project Director:** Ricky A. Kittles, Ph.D.  
**Title of Project:** SNP Analysis of Candidate Genes for Prostate Cancer In African Americans

**Agency:** DoD/ARO  
**Funding Level:** \$247,000(current budget period)      **Year:** 2002-2003  
**Project Director:** Clayton W. Bates, Jr., Ph.D.  
**Title of Project:** High Vacuum Thin Film Deposition System

**Agency:** NIH/DHHS  
**Funding Level:** \$1,518,262 (current budget period)      **Year:** 2001-2006  
**Project Director:** Lucile Adams-Campbell, Ph.D.  
**Title of Project:** Howard/Hopkins Cancer Center Partnership

**Agency:** DHHS/PHS/NIH/NIEHS  
**Funding Level:** \$1,223,811 (current budget period) **Year:** 1997-2003  
**Project Director:** Georgia Dunston, Ph.D.  
**Title of Project:** Coordinating Center for African American Hereditary Prostate Cancer Study Network

**Agency:** NIH/NIAA  
**Funding Level:** \$712,866 **Year:** 2001-2005  
**Project Director:** Robert E. Taylor, Ph.D.  
**Title of Project:** IRPG4: Novel Phenotypes for Genetics of Alcoholism

**Agency:** NIH/NIDDKD  
**Funding Level:** \$655,417 (current budget period) **Year:** 1995-2005  
**Project Director:** Clive O. Callender, M.D.  
**Title of Project:** MOTTEP—Preventing the Need

**Agency:** NIH/NIAID  
**Funding Level:** \$370,803 (current budget period) **Year:** 1996-2005  
**Project Director:** Victor R. Gordeuk, M.D.  
**Title of Project:** Severe Malarial Anemia and Altered Immune Function

**Agency:** NIH/NIDA  
**Funding Level:** \$305,100 **Year:** 2001-2004  
**Project Director:** Kathy Sanders-Phillips, Ph.D.  
**Title of Project:** Community-based Correlates of Adolescent Substance Use in African Americans: The Impact of Exposure to Community Violence and Ethnic Identity Development

**Agency:** NIH/NINR  
**Funding Level:** \$295,345 (current budget period) **Year:** 2002-2007  
**Project Director:** Dorothy L. Powell, Ph.D.  
**Title of Project:** Reducing Health Disparities by Self and Family Management

**Agency:** NIH/NCRR  
**Funding Level:** \$265,354 (current budget period) **Year:** 2001-2004  
**Project Director:** W. Lena Austin, Ph.D.  
**Title of Project:** Project DISH

**MEHARRY MEDICAL COLLEGE**  
**Nashville, TN 37208**

**Contact: Dr. Peter J. Dolce**  
**Director**

**Telephone: (615) 327-6703**  
**Fax: (615) 327-6716**  
**Email: pdolce@mmc.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

**PROGRAM 1**

**SPECIALTY**

**DEGREE LEVEL**

Cancer

**Laboratories and Other Facilities and Equipment:**

Animal Care Facility (ACF) - The ACF occupies about 19,000 sq. ft. and has rooms for holding animals, a diet kitchen, a necropsy facility, a morgue, laboratories, an x-ray facility, a surgical suite, prep rooms, recovery rooms, isolation rooms, a cage washer, storage rooms, and receiving and incinerator rooms. The holding rooms are all supplied with automatic watering systems and stainless steel caging. ACF's two major services are to house experimental animals and to procure animals for research and teaching. ACF also provides special animal care before and after experimental surgery, maintains animal disease control programs, keeps records and inventories of animals, quarantines and conditions animals, and provides consultation on laboratory animal care and use.

Hybridoma Research Laboratory (HRL) - HRL includes facilities for tissue culture, cell and media preparation, and other procedures involved in producing monoclonal antibodies. Specific pieces of equipment include a laminar flow hood, static air tissue culture hood, centrifuges, Co2 incubators, water purification system, and equipment for western blotting, enzyme-linked immunosorbant assays, fluorescence microscopy, and cryopreservation of cells and tissues. HRL also has a fast protein liquid chromatography system for constructing columns that rely on antibody-antigen binding, and for separating target antigens from a mixture of molecules.

Flow Cytometry Laboratory - The Flow Cytometry Core Laboratory is located in the Department of Microbiology in the West Basic Sciences Center and has two flow cytometers for the use of faculty, staff and students. The first is a analytical flow cytometer, the FACScan. This instrument has a dedicated 15 m Wargon laser emitting at a wavelength of 488 nm. It is capable of detecting fluorescence from combinations of up to three different dyes to resolve multiple subpopulations within the sample. The cytometer is controlled by an Apple G4-450 computer with a 20 GB hard drive and a 60 GB external Fire wire Drive for data backup.

The second cytometer is a four color-capable FACStar Plus with 5 detectors, a air-cooled argon laser and a 5 W Spectra-Physics UV-capable laser. The unit has the CloneCyt

micro well deposition system and software for single cell cloning/analysis. The cytometer is controlled by a G3-300 Apple computer.

The laboratory is supported by separate computer workstations which can analyze the user's data. Software includes the CellQuest and CellQuest Pro software from Becton Dickinson and the DNA analysis and modeling ModFit LT software from Verity House Software. The analytical FlowJo software developed at Stanford University is also available.

Molecular Biology Core Facility - Located on the fourth floor of the West Basic Sciences Center, the Molecular Biology Core Facility performs services in the areas of DNA sequencing, oligonucleotide synthesis and peptide synthesis for faculty, graduate students and staff of Meharry Medical College. The facility houses instrumentation for the performance of these services as well as shared equipment items that are useful for molecular biological and recombinant DNA research, including a real-time PCR instrument, a molecular imaging and densitometry system, ultracentrifuges, a scintillation counter, a HPLC system, a uv/visible spectrophotometer and thermocyclers.

Environmental Toxicology Laboratory - This core laboratory in the West Basic Sciences Center performs a variety of toxicological assays. It houses a fully computerized Hewlett Packard high performance liquid chromatography apparatus with ultraviolet and fluorescent detectors, a Hewlett Packard Diode-Array spectrophotometer, a Millipore Cytofluor, a Beckman scintillation counter, a Savant Speedvac, an ultracentrifuge and an ultra-low freezer. An inhalation facility housed in the Animal Care Facility is also part of this laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Olufemi Adegoke	M.D.	Epidemiology	Molecular Epidemiology
Samuel Adunya	Ph.D.	Biochemistry	Chemokines
Nasar Ahmed	Ph.D.	Biostatistics	Barriers and Incentives to Mammography
Nathaniel Briggs	M.D.	Epidemiology	Disparities in Incidence of Cancer
Gautam Chaudhuri	Ph.D.	Molecular Biology	Tumor Suppressor Genes
Salil Das	Ph.D.	Biochemistry	Receptor Biology of Breast Cancer
Sakina Eltom	Ph.D.	Pharmacology	Dioxin and Cancer
Digna Forbes	M.D.	Pathology	Disparities in Etiology of Cancer
Margaret Hargreaves	Ph.D.	Nutrition	Cancer Disparities

Robert Holt	Ph.D.	Microbiology	Molecular Biology
Farzaneh Kazimi	M.D.	Radiology	Imaging
Josiah Ochieng	Ph.D.	Biochemistry	Molecular Determinations of Metastasis
Steven Stain	M.D.	Surgery	Cancer Disparities
Marilyn Thompson	Ph.D.	Biochemistry	Tumor Suppressor Genes in Breast Cancer

## **PROGRAM 2**

## **SPECIALTY**

## **DEGREE LEVEL**

Cardiovascular Disease

### **Laboratories and Other Facilities and Equipment**

Animal Care Facility (ACF) - The ACF occupies about 19,000 sq. ft. and has rooms for holding animals, a diet kitchen, a necropsy facility, a morgue, laboratories, an x-ray facility, a surgical suite, prep room, recovery rooms, isolation rooms, a cage washer, storage rooms, and receiving and incinerator rooms. The holding rooms are all supplied with automatic watering systems and stainless steel caging. ACF's two major services are to house experimental animals and to procure animals for research and teaching. ACF also provides special animal care before and after experimental surgery, maintains animal disease control programs, keeps records and inventories of animals, quarantines and conditions animals, and provides consultation on laboratory animal care and use.

Hybridoma Research Laboratory (HRL) - HRL includes facilities for tissue culture, cell and media preparation, and other procedures involved in producing monoclonal antibodies. Specific pieces of equipment include a laminar flow hood, static air tissue culture hood, centrifuges, Co2 incubators, water purification system, and equipment for western blotting, enzyme-linked immunosorbant assays, fluorescence microscopy, and cryopreservation of cells and tissues. HRL also has a fast protein liquid chromatography system for constructing columns that rely on antibody-antigen binding, and for separating target antigens from a mixture of molecules.

Flow Cytometry Laboratory - The Flow Cytometry Core Laboratory is located in the Department of Microbiology in the West Basic Sciences Center and has two flow cytometers for the use of faculty, staff and students. The first is a analytical flow cytometer, the FACScan. This instrument has a dedicated 15 m Wargon laser emitting at a wavelength of 488 nm. It is capable of detecting fluorescence from combinations of up to three different dyes to resolve multiple subpopulations within the sample. The cytometer is controlled by an Apple G4-450 computer with a 20 GB hard drive and a 60 GB external Fire wire Drive for data backup.

The second cytometer is a four color-capable FACStar Plus with 5 detectors, a air-cooled argon laser and a 5 W Spectra-Physics UV-capable laser. The unit has the CloneCyt

micro well deposition system and software for single cell cloning/analysis. The cytometer is controlled by a G3-300 Apple computer.

The laboratory is supported by separate computer workstations which can analyze the user's data. Software includes the CellQuest and CellQuest Pro software from Becton Dickinson and the DNA analysis and modeling ModFit LT software from Verity House Software. The analytical FlowJo software developed at Stanford University is also available.

Molecular Biology Core Facility - Located on the fourth floor of the West Basic Sciences Center, the Molecular Biology Core Facility performs services in the areas of DNA sequencing, oligonucleotide synthesis and peptide synthesis for faculty, graduate students and staff of Meharry Medical College. The facility houses instrumentation for the performance of these services as well as shared equipment items that are useful for molecular biological and recombinant DNA research, including a real-time PCR instrument, a molecular imaging and densitometry system, ultracentrifuges, a scintillation counter, a HPLC system, a uv/visible spectrophotometer and thermocyclers.

Environmental Toxicology Laboratory - This core laboratory in the West Basic Sciences Center performs a variety of toxicological assays. It houses a fully computerized Hewlett Packard high performance liquid chromatography apparatus with ultraviolet and fluorescent detectors, a Hewlett Packard Diode-Array spectrophotometer, a Millipore Cytofluor, a Beckman scintillation counter, a Savant Speedvac, an ultracentrifuge and an ultra-low freezer. An inhalation facility housed in the Animal Care Facility is also part of this laboratory.

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Samuel Adunyah	Ph.D.	Biochemistry	Chemkines
Pilar Aguinaga	Ph.D.	Molecular Biology	Animal Models of Sickle Cell Disease; Incidence of Hemoglobinopathies
Maciej Buchowski	Ph.D.	Biochemistry and Nutrition	Protein Metabolism in Sickle Cell Disease
Minu Chaudhuri	Ph.D.	Molecular Biology	Molecular Etiology of Trypanosomiasis
Oksoon Choi	Ph.D.	Biochemistry	Signaling Pathways in Mast Cells
Roberto Cruz-Gervis	M.D.	Pulmonology	Cellular Biology of Asthma
Salil Das	Ph.D.	Biochemistry	Lung Surfactants
Zhong Guo	Ph.D.	Physiology	Oxidative Stress in Atherogenesis

Michael Hill	Ph.D.	Physiology	Oxidative Stress in Diabetes
Mohammed Maleque	Ph.D.	Pharmacology	Lead Toxicity; Research Training in Cardiovascular Disease
Shirley Russell	Ph.D.	Genetics	Genetics of Keloids; Research Training in Cardiovascular Disease
Mukarram Uddin	Ph.D.	Anatomy	Molecular Biology of Hypertension

**PROGRAM 3**

**SPECIALTY**

**DEGREE LEVEL**

Health Disparities

**Laboratories and Other Facilities and Equipment**

Clinical Research Center - The principal physical resource for clinical research at Meharry is the CRC. The CRC is located on the fourth floor of a building known as the "low rise" which is contiguous with the campus hospital and the school of dentistry. The CRC is an outpatient unit that occupies 3300 sq. ft. It includes rooms for patient waiting, intake and counseling; three examining rooms and a procedures room; a dental suite dedicated to AIDS patients; and a staff office, a staff lounge, a records room and a conference room. The unit also houses a nursing station, a sample processing lab and rooms for bio-hazardous materials and radioactive materials. The CRC operates a 2,300 sq. ft. core laboratory that encompasses 1) a tissue culture laboratory with a class II bio-safety cabinet, two CO2 incubators, an inverted scope and a chemical hood; and 2) an instrument room with a Coulter counter, HPLC, autoclave, ultracentrifuge, high temperature oven, nephelometer, spectrophotometer, ELISA reader, slide maker, lyophilizer, and protein concentrator.

Regional Research Center for Minority Oral Health - Since 1992 Meharry in collaboration with the University of Alabama at Birmingham has operated a Regional Research Center for Minority Oral Health (RRCMOH). The RRCMOH program established core facilities for clinical research and oral microbiology. The core clinical research facility consists of a 1100 sq. ft. area on the second floor of the school of dentistry; it is designed for eight clinical operatories and a reception space; the semi-enclosed operatory areas are each approximately 70 sq. ft. and have been appropriately plumbed. Four operatories are currently fully equipped for dental examination and procedures. The core microbiology laboratory occupies 800 sq. ft. on the fifth floor of the dental school and is equipped with the standard equipment needed for the growth of bacteria and for biochemical and molecular characterization of microbial strains. It includes a light microscope, dissecting scope, water baths, top loading and analytical balances, a tabletop centrifuge, an Eppendorf microfuge, a Perkin Elmer thermocycler for PCR, anaerobic and aerobic incubators, spiral plater, refrigerator, and -20 degree and -70

degree freezers. A large capacity Castle autoclave and dishwasher are located in adjacent laboratory space.

Animal Care Facility (ACF) - The ACF occupies about 19,000 sq. ft. and has rooms for holding animals, a diet kitchen, a necropsy facility, a morgue, laboratories, an x-ray facility, a surgical suite, prep room, recovery rooms, isolation rooms, a cage washer, storage rooms, and receiving and incinerator rooms. The holding rooms are all supplied with automatic watering systems and stainless steel caging. ACF's two major services are to house experimental animals and to procure animals for research and teaching. ACF also provides special animal care before and after experimental surgery, maintains animal disease control programs, keeps records and inventories of animals, quarantines and conditions animals, and provides consultation on laboratory animal care and use.

Hybridoma Research Laboratory (HRL) - HRL includes facilities for tissue culture, cell and media preparation, and other procedures involved in producing monoclonal antibodies. Specific pieces of equipment include a laminar flow hood, static air tissue culture hood, centrifuges, Co2 incubators, water purification system, and equipment for western blotting, enzyme-linked immunosorbant assays, fluorescence microscopy, and cryopreservation of cells and tissues. HRL also has a fast protein liquid chromatography system for constructing columns that rely on antibody-antigen binding, and for separating target antigens from a mixture of molecules.

Flow Cytometry Laboratory - The Flow Cytometry Core Laboratory is located in the Department of Microbiology in the West Basic Sciences Center and has two flow cytometers for the use of faculty, staff and students. The first is a analytical flow cytometer, the FACScan. This instrument has a dedicated 15 m Wargon laser emitting at a wavelength of 488 nm. It is capable of detecting fluorescence from combinations of up to three different dyes to resolve multiple subpopulations within the sample. The cytometer is controlled by an Apple G4-450 computer with a 20 GB hard drive and a 60 GB external Fire wire Drive for data backup.

The second cytometer is a four color-capable FACStar Plus with 5 detectors, a air-cooled argon laser and a 5 W Spectra-Physics UV-capable laser. The unit has the CloneCyt micro well deposition system and software for single cell cloning/analysis. The cytometer is controlled by a G3-300 Apple computer.

The laboratory is supported by separate computer workstations which can analyze the user's data. Software includes the CellQuest and CellQuest Pro software from Becton Dickinson and the DNA analysis and modeling ModFit LT software from Verity House Software. The analytical FlowJo software developed at Stanford University is also available.

Molecular Biology Core Facility - Located on the fourth floor of the West Basic Sciences Center, the Molecular Biology Core Facility performs services in the areas of DNA sequencing, oligonucleotide synthesis and peptide synthesis for faculty, graduate students and staff of Meharry Medical College. The facility houses instrumentation for the performance of these services as well as shared equipment items that are useful for

molecular biological and recombinant DNA research, including a real-time PCR instrument, a molecular imaging and densitometry system, ultracentrifuges, a scintillation counter, a HPLC system, a uv/visible spectrophotometer and thermocyclers.

Environmental Toxicology Laboratory - This core laboratory in the West Basic Sciences Center performs a variety of toxicological assays. It houses a fully computerized Hewlett Packard high performance liquid chromatography apparatus with ultraviolet and fluorescent detectors, a Hewlett Packard Diode-Array spectrophotometer, a Millipore Cytofluor, a Beckman scintillation counter, a Savant Speedvac, an ultracentrifuge and an ultra-low freezer. An inhalation facility housed in the Animal Care Facility is also part of this laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Anthony Archibong	Ph.D.	Biology	Sperm motility
Vladimir Berthaud	M.D.	Infectious Disease	HIV Prevention and Treatment
Maciej Buchowski	Ph.D.	Biochemistry and Nutrition	Protein Metabolism in Sickle Cell Disease
William Butler	D.D.S.	Operative Dentistry	Dental Research Training
PonJola Coney	M.D.	Obstetrics and Gynecology	Receptor Biology of Breast Cancer
Roberto Cruz-Gervis	M.D.	Pulmonology	Cellular Biology of Asthma
Marquetta Faulkner	M.D.	Nephrology	Disparities in Renal Disease
Margaret Hargreaves	Ph.D.	Nutrition	Disparities in Diabetes and Cancer
Gwinett Ladson	M.D.	Obstetrics and Gynecology	Disparities in Preterm Births
Valerie Rice	M.D.	Obstetrics and Gynecology	Estrogen Therapy
Stephanie Sweet	M.D.	Obstetrics and Gynecology	Uterine Leiomyoma

**PROGRAM 4**

**SPECIALTY**

**DEGREE LEVEL**

Infectious Disease

**Laboratories and Other Facilities and Equipment**

Regional Research Center for Minority Oral Health - Since 1992 Meharry in collaboration with the University of Alabama at Birmingham has operated a Regional

Research Center for Minority Oral Health (RRCMOH). The RRCMOH program established core facilities for clinical research and oral microbiology. The core clinical research facility consists of a 1100 sq. ft. area on the second floor of the school of dentistry; it is designed for eight clinical operatories and a reception space; the semi-enclosed operatory areas are each approximately 70 sq. ft. and have been appropriately plumbed. Four operatories are currently fully equipped for dental examination and procedures. The core microbiology laboratory occupies 800 sq. ft. on the fifth floor of the dental school and is equipped with the standard equipment needed for the growth of bacteria and for biochemical and molecular characterization of microbial strains. It includes a light microscope, dissecting scope, water baths, top loading and analytical balances, a tabletop centrifuge, an Eppendorf microfuge, a Perkin Elmer thermocycler for PCR, anaerobic and aerobic incubators, spiral plater, refrigerator, and -20 degree and -70 degree freezers. A large capacity Castle autoclave and dishwasher are located in adjacent laboratory space.

Animal Care Facility (ACF) - The ACF occupies about 19,000 sq. ft. and has rooms for holding animals, a diet kitchen, a necropsy facility, a morgue, laboratories, an x-ray facility, a surgical suite, prep room, recovery rooms, isolation rooms, a cage washer, storage rooms, and receiving and incinerator rooms. The holding rooms are all supplied with automatic watering systems and stainless steel caging. ACF's two major services are to house experimental animals and to procure animals for research and teaching. ACF also provides special animal care before and after experimental surgery, maintains animal disease control programs, keeps records and inventories of animals, quarantines and conditions animals, and provides consultation on laboratory animal care and use.

Hybridoma Research Laboratory (HRL) - HRL includes facilities for tissue culture, cell and media preparation, and other procedures involved in producing monoclonal antibodies. Specific pieces of equipment include a laminar flow hood, static air tissue culture hood, centrifuges, Co2 incubators, water purification system, and equipment for western blotting, enzyme-linked immunosorbant assays, fluorescence microscopy, and cryopreservation of cells and tissues. HRL also has a fast protein liquid chromatography system for constructing columns that rely on antibody-antigen binding, and for separating target antigens from a mixture of molecules.

Flow Cytometry Laboratory - The Flow Cytometry Core Laboratory is located in the Department of Microbiology in the West Basic Sciences Center and has two flow cytometers for the use of faculty, staff and students. The first is a analytical flow cytometer, the FACScan. This instrument has a dedicated 15 m Wargon laser emitting at a wavelength of 488 nm. It is capable of detecting fluorescence from combinations of up to three different dyes to resolve multiple subpopulations within the sample. The cytometer is controlled by an Apple G4-450 computer with a 20 GB hard drive and a 60 GB external Fire wire Drive for data backup.

The second cytometer is a four color-capable FACStar Plus with 5 detectors, a air-cooled argon laser and a 5 W Spectra-Physics UV-capable laser. The unit has the CloneCyt micro well deposition system and software for single cell cloning/analysis. The cytometer is controlled by a G3-300 Apple computer.

The laboratory is supported by separate computer workstations which can analyze the user's data. Software includes the CellQuest and CellQuest Pro software from Becton Dickinson and the DNA analysis and modeling ModFit LT software from Verity House Software. The analytical FlowJo software developed at Stanford University is also available.

Molecular Biology Core Facility - Located on the fourth floor of the West Basic Sciences Center, the Molecular Biology Core Facility performs services in the areas of DNA sequencing, oligonucleotide synthesis and peptide synthesis for faculty, graduate students and staff of Meharry Medical College. The facility houses instrumentation for the performance of these services as well as shared equipment items that are useful for molecular biological and recombinant DNA research, including a real-time PCR instrument, a molecular imaging and densitometry system, ultracentrifuges, a scintillation counter, a HPLC system, a uv/visible spectrophotometer and thermocyclers.

Environmental Toxicology Laboratory - This core laboratory in the West Basic Sciences Center performs a variety of toxicological assays. It houses a fully computerized Hewlett Packard high performance liquid chromatography apparatus with ultraviolet and fluorescent detectors, a Hewlett Packard Diode-Array spectrophotometer, a Millipore Cytofluor, a Beckman scintillation counter, a Savant Speedvac, an ultracentrifuge and an ultra-low freezer. An inhalation facility housed in the Animal Care Facility is also part of this laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Minu Chaudhuri	Ph.D.	Molecular Biology	Molecular Etiology of Trypanosomiasis
George Hill	Ph.D.	Molecular Biology	Respiratory Pathway of <i>Trypanosome Brucei</i>
Raju Ramasamy	Ph.D.	Virology	Gene Expression in Alphavirus
Shirley Russell	Ph.D.	Genetics	Molecular Biology of Keloids
Fernando Villalta	Ph.D.	Molecular Biology	Trypanosome-Host Cell Interactions
Hua Xie	D.D.S., Ph.D.	Periodontics	Interactions Between Oral Bacteria

**PROGRAM 5****SPECIALTY****DEGREE LEVEL**

Neuroscience

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** U.S. Army  
**Funding Level:** \$206,735.00  
**Project Director:** Olufermi Adegoke  
**Title of Project:** Gene-Gene and Gene-Environment Interactions in the Etiology of Breast Cancer

**Agency:** NCI  
**Funding Level:** \$49,730.00  
**Project Director:** Olufermi Adegoke  
**Title of Project:** Pilot Project

**Agency:** NCI  
**Funding Level:** \$157,132.00  
**Project Director:** Samuel Adunyah  
**Title of Project:** Faculty Recruitment, Basic Science

**Agency:** NCI  
**Funding Level:** \$31,296.00  
**Project Director:** Samuel Adunyah  
**Title of Project:** Seminars and Workshops

**Agency:** NCI  
**Funding Level:** \$46,762.00  
**Project Director:** Samuel Adunyah  
**Title of Project:** Roles of STATS and Src Kinases in Growth Control by II IL-17

**Agency:** NCI  
**Funding Level:** \$89,384.00  
**Project Director:** Samuel Adunyah  
**Title of Project:** Comprehensive MMC/VICC Cancer Research Center: Administration

**Agency:** NCI  
**Funding Level:** \$38,925.00  
**Project Director:** Samuel Adunyah  
**Title of Project:** Ph.D. Training

**Agency:** U.S. Army  
**Funding Level:** \$209,658.00  
**Project Director:** Nasar Ahmed  
**Title of Project:** Empowering Factors Among Breast Screening Compliant Underserved Populations

**Agency:** NCI  
**Funding Level:** \$96,823.00  
**Project Director:** Nasar Ahmed  
**Title of Project:** Epidemiology and Statistics Core

**Agency:** U.S. Army  
**Funding Level:** \$50,000.00  
**Project Director:** Nathaniel Briggs  
**Title of Project:** Race-Specific Occupational Risk Factors for Cancer

**Agency:** U.S. Army  
**Funding Level:** \$90,000.00  
**Project Director:** Joann Brooks  
**Title of Project:** Modification of Invasive Properties of Human Breast Cancer Cell Lines

**Agency:** U.S. Army  
**Funding Level:** \$225,380.00  
**Project Director:** Gautam Chaudhuri  
**Title of Project:** Comparative Biology of BRCA2 Gene Expression in Caucasian and African-American Female Breast Cells

**Agency:** NCI  
**Funding Level:** \$88,254.00  
**Project Director:** Gautam Chaudhuri  
**Title of Project:** Regulation of Human BRCA2 Gene Expression

**Agency:** U.S. Army  
**Funding Level:** \$300,000.00  
**Project Director:** Salil Das  
**Title of Project:** Is Peripheral Benzodiazopine Receptor Gene Expression Involved in Breast Cancer Suppression by Dietary Supplements

**Agency:** U.S. Army  
**Funding Level:** \$299,568  
**Project Director:** Sakina Eltorn  
**Title of Project:** Role of Dioxin Receptor in Mammary Development and Carcinogenesis

**Agency:** NCI  
**Funding Level:** \$50,000  
**Project Director:** Sakina Elton  
**Title of Project:** Expression of the Aryl Hydrocarbon Receptor of Human Breast Tumors and its Role in Disease Progression

**Agency:** NCI  
**Funding Level:** \$98,738.00  
**Project Director:** Digna Forbes  
**Title of Project:** Molecular Epidemiology of Proliferative Breast Diseases

**Agency:** NCI  
**Funding Level:** \$55,291.00  
**Project Director:** Margaret Hargreaves  
**Title of Project:** Examining Disparities in Compliance with Recommended Colonoscopy

**Agency:** NCI  
**Funding Level:** \$40,495.00  
**Project Director:** Robert Holt  
**Title of Project:** Molecular Biology Core Facility

**Agency:** NCI  
**Funding Level:** \$8,478.00  
**Project Director:** Farzaneh Kazimi  
**Title of Project:** Multidisciplinary Research Training in Cancer Imaging

**Agency:** NCI  
**Funding Level:** \$50,604.00  
**Project Director:** Josiah Ochieng  
**Title of Project:** Roles of Fetuins in Tumerigenesis and Matastasis

**Agency:** NCI  
**Funding Level:** \$43,974.00  
**Project Director:** Josiah Ochieng  
**Title of Project:** Tissue Culture and Procurement Facility

**Agency:** NCI  
**Funding Level:** \$191,580.00  
**Project Director:** Steven Stain  
**Title of Project:** Recruitment of Clinical Investigators

**Agency:** NCI  
**Funding Level:** \$109,652.00  
**Project Director:** Steven Stain  
**Title of Project:** Clinical Investigator Training

**Agency:** NCI  
**Funding Level:** \$88,807.00  
**Project Director:** Steven Stain  
**Title of Project:** Clinical Oncology

**Agency:** NCI  
**Funding Level:** 155,892.00  
**Project Director:** Steven Stain  
**Title of Project:** Recruitment of Epidemiologist

**Agency:** NCI  
**Funding Level:** \$43,204.00  
**Project Director:** Marilyn Thompson  
**Title of Project:** Pilot Project

**Agency:** NCI  
**Funding Level:** \$141,565.00  
**Project Director:** Marilyn Thompson  
**Title of Project:** Nuclear Export of BRCA1 in Mammary Cells

**Agency:** NHLBI  
**Funding Level:** \$214,662.00      **Year:** 07/92-06/05  
**Project Director:** Samuel Adunyah  
**Title of Project:** Minority Institutional Training Grant

**Agency:** NHLBI  
**Funding Level:** \$141,199.00      **Year:** 05/94-04/05  
**Project Director:** Pilar Aguinaga  
**Title of Project:** Innovative Therapeutic Approaches for Sickle Cell Diseases

**Agency:** NHLBI  
**Funding Level:** \$156,085.00      **Year:** 08/01-07/06  
**Project Director:** Maciej Buchowski  
**Title of Project:** Metabolic Consequences of Sickle Cell Anemia in Adolescence

**Agency:** NHLBI  
**Funding Level:** \$98,070.00      **Year:** 05/98-04/03  
**Project Director:** Minu Chaudhuri  
**Title of Project:** Mitochondrial Protein Import in African Trypanosomes

**Agency:** NHLBI  
**Funding Level:** \$123,276.00      **Year:** 07/00-06/05  
**Project Director:** Oksoon Choi  
**Title of Project:** The Role of Sphingosine Kinase in Mast Cell Signaling

**Agency:** NHLBI  
**Funding Level:** \$115,000.00      **Year:** 09/00-07/05  
**Project Director:** Roberto Cruz-Gervis  
**Title of Project:** Altered C/EBP $\beta$  Regulation in IPF Lung Fibroblasts

**Agency:** NHLBI  
**Funding Level:** \$397,735.00      **Year:** 09/02-07/07  
**Project Director:** Roberto Cruz-Gervis  
**Title of Project:** Asthma Disparities in Cohorts at Risk for Morbidity

**Agency:** NHLBI  
**Funding Level:** \$97,804.00      **Year:** 07/01-06/03  
**Project Director:** Salil Das  
**Title of Project:** Training Grant in Mechanisms of Vascular Disease

**Agency:** NHLBI  
**Funding Level:** \$100,000      **Year:** 09/03-08/05  
**Project Director:** Zhong Guo  
**Title of Project:** The Role of Oxidative Stress in Atherogenesis

**Agency:** NIGMS  
**Funding Level:** \$184,628.00      **Year:** 09/03-07/07  
**Project Director:** Zhong Guo  
**Title of Project:** The Role of Oxidative Stress in Atherogenesis

**Agency:** NIGMS  
**Funding Level:** \$25,250.00      **Year:** 09/03-07/07  
**Project Director:** Michael Hill  
**Title of Project:** Oxidative Stress and Post-MI Heart Failure in Diabetes

**Agency:** NIGMS  
**Funding Level:** \$25,250.00      **Year:** 09/03-07/07  
**Project Director:** Michael Hill  
**Title of Project:** Oxidative Stress and Post-MI Heart Failure in Diabetes

**Agency:** NHLBI  
**Funding Level:** \$158,263.00      **Year:** 09/00-08/04  
**Project Director:** Mohammed Maleque  
**Title of Project:** Minority Institutional Research Training Program

**Agency:** NHLBI  
**Funding Level:** \$284,710.00      **Year:** 04/03-03/08  
**Project Director:** Shirley Russell  
**Title of Project:** Minority Institutional Research Training Program

**Agency:** NHLBI  
**Funding Level:** \$112,501.00      **Year:** 06/99-05/04  
**Project Director:** Mukarram Uddin  
**Title of Project:** Regulation of Kallikrein mK9 in Hypertensive Mice

**Agency:** NICHD  
**Funding Level:** \$204,199.00      **Year:** 07/03-06/08  
**Project Director:** Anthony Archibong  
**Title of Project:** MMC/PSU Cooperative Center for Research in Reproduction: Endocrine Core

**Agency:** NIAID  
**Funding Level:** \$35,768.00      **Year:** 06/03-04/06  
**Project Director:** Vladimir Berthaud  
**Title of Project:** Vanderbilt Meharry Developmental CFAR

**Agency:** NIAID  
**Funding Level:** \$6,840.00      **Year:** 07/01-12/03  
**Project Director:** Vladimir Berthaud  
**Title of Project:** Adult Therapeutic Clinical Trials Program for AIDS

**Agency:** NIGMS  
**Funding Level:** \$229,972.00      **Year:** 09/03-07/07  
**Project Director:** Maciej Buchowski  
**Title of Project:** Protein Requirements in Sickle Cell Anemia

**Agency:** NIDCR  
**Funding Level:** \$242,214.00      **Year:** 09/02-08/06  
**Project Director:** William Butler  
**Title of Project:** Expanding Oral Health Disparities Research

**Agency:** NICHD  
**Funding Level:** \$173,062.00      **Year:** 09/02-08/06  
**Project Director:** PonJola Coney  
**Title of Project:** MMC/PSU Cooperative Center for Research at Meharry Medical College

**Agency:** NHLBI  
**Funding Level:** \$397,735.00      **Year:** 09/02-07/07  
**Project Director:** Roberto Cruz-Gervis  
**Title of Project:** Asthma Disparities in Cohorts at Risk for Morbidity

**Agency:** NIDDK  
**Funding Level:** \$29,830.00      **Year:** 09/03-06/07  
**Project Director:** Marquette Faulkner  
**Title of Project:** AASK Cohort Study: Clinical Research Center at Meharry

**Agency:** None  
**Funding Level:** \$194,649.00      **Year:** 07/02-03/07  
**Project Director:** Gwinett Ladson  
**Title of Project:** The Effect of Combination Therapy with Lifestyle Intervention and Metformin in Females with Polycystic Ovary Disorder

**Agency:** NICHD  
**Funding Level:** \$236,758.00      **Year:** 07/03-06/08  
**Project Director:** Valerie Rice  
**Title of Project:** Racial Differences in Circulating Sex Steroids and their Effect on Bone and Ovarian Function

**Agency:** NICHD  
**Funding Level:** \$185,823.00      **Year:** 07/03-06/08  
**Project Director:** Stephanie Sweet  
**Title of Project:** The Effect of Oral Contraceptive Pills and Endogenous Sex Steroids on Uterine Leiomyoma

**Agency:** NIGMS  
**Funding Level:** \$126,300.00  
**Project Director:** Minu Chaudhuri  
**Title of Project:** Mitochondrial Protein Import Machineries from Trypanosoma Brucei

**Agency:** NIAID  
**Funding Level:** \$15,000.00  
**Project Director:** George Hill  
**Title of Project:** Tropical Diseases Symposium

**Agency:** NIGMS  
**Funding Level:** \$142,517.00  
**Project Director:** Raju Ramasamy  
**Title of Project:** Mechanism of Differential Gene Expression in Alphavirus

**Agency:** NIAID  
**Funding Level:** \$25,910.00  
**Project Director:** Shirley Russell  
**Title of Project:** Transcriptional Regulation of the Type I T Cell Response

**Agency:** NIAID  
**Funding Level:** \$126,814.00  
**Project Director:** Fernando Villalta  
**Title of Project:** Molecular Microbial Pathogenesis Training Program

**Agency:** NIGMS  
**Funding Level:** \$151,816.00  
**Project Director:** Fernando Villalta  
**Title of Project:** Cellular Genes Required for Trypanosome Infection

**Agency:** NIDCR  
**Funding Level:** \$200,000.00  
**Project Director:** Hua Xie  
**Title of Project:** Inhibition of HIV Infection by Oral Bacterial Component

**Agency:** NIGMS  
**Funding Level:** \$155,689.00  
**Project Director:** Hua Xie  
**Title of Project:** Intergeneric Signaling Molecules of *S. Cristatus*





M.S. Ogra	Ph.D.	Microbiology	on Blood Brain Barrier of Rats Effects of Aging Ganglion Cells Population and Axion Morphology of Rat Visual System
-----------	-------	--------------	---

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Bio-Medical	Bachelors

**Laboratories and Other Facilities and Equipment**

Chemistry Laboratory with Tektronix 4051 computer Tektronix 4107 color graphics terminals; Modem and 4662 plotter; Beckman Ir-20AX graphing infrared spectrophotometer ,Perkin-Elmer Model 202 Ultraviolet visible spectrophotometer art flame accessory; and NMR Hitachi Perkin-Elmert. Other labs are the Anatomy/Physiology Lab, Microbiology Lab, Immunology and Parasitology labs, Botany labs, Marine Science Lab, animal Diversity Lab and Microcomputer.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Richard Majeste	Ph.D.	Chemistry	High Resolution X-ray Studies; Opiate; Receptor Matching
Clyde Smith	Ph.D.		Chemistry Spectroscopy (Matrix Isolation)

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Technology	Petroleum Construction Electronics Manufacturing	Bachelors

**Laboratories and Other Facilities and Equipment**

Petroleum Laboratory with state-of-the-art equipment including automatic drill press, sieve testers, capillary pressure apparatus, and electrically heated retort, drill press assembly for porosity, permeability and fluid saturation experiments; Manufacturing Laboratory with a computer-controlled industrial automation equipment for laboratory projects in computer-aided design and computer-aided manufacturing as well as material testing equipment (MTS) which extends the laboratory coverage into the areas of creep, fatigue, and fracture mechanics; Electronics Laboratory with solid-state volt-ohm millimeters, audio sine square wave generators, oscilloscope, microcomputers, microprocessors.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Babatunde J. Ayeni	Ph.D.	Statistics Engineering	Empirical Characteristics Fraction Based Estimators in a Mixture of Normal Distributions
Jinun-Chyi Lee	Ph.D.	Mechanical Engineering	Suppression of Den Hartog Transmission Line Galloping by Support- Compliance Design
Ericon Ugbo	M.S.	Electrical Engineering	Determination of the Complex Dielectric Constant of an Absorbing Medium at Optical frequencies from Angular Measurements

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

Mathematics Laboratory equipped with computers.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Myrtle Smith	Ph.D.	Mathematics	
Matthew Causey	Ph.D.	Mathematics	

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics	Applied Nuclear	Bachelors

**Laboratories and Other Facilities and Equipment**

Physics Laboratory with pure intrinsic Ge-detector for x-rays, cryostate mounted with precomp; large volume Ge (Li) detector 30cc coaxial for gamma rays; Hewlett Packard 2100 minicomputer 32k memory CPU with three terminals, optical card reader photo reader and high speed punch; Northern Scientific Model 1741 multichannel analyzer; wa-I scintillation grammar detector; three Iso-topic x-ray sources (Am 241 cd 109 x Fe 56); and IBM microcomputer with DOS port and printer.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
V.R. Dave	Ph.D.	Nuclear Physics	Low Energy Nuclear Physics; Gamma Ray Decay of Low Lying Levels for Cs, Pr, Au, As, Rb Applied X-ray Fluorescent and Neutron Activation Work

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** U.S. Navy  
**Funding Level:** \$2,550,5661  
**Project Director:** Dr. Rose Glee  
**Title of Project:** Living-Learning Centers to Increase Minority Labor Pool in High Technology Careers

**Agency:** U.S. Navy  
**Funding Level:** \$1,859,177  
**Project Director:** Dr. Richard R. Majeste  
**Title of Project:** Development and Energetic Materials Research Center

**Agency:** U.S. Navy  
**Funding Level:** \$11,500  
**Project Director:** Dr. Richard R. Majeste  
**Title of Project:** Nitrocubimids for Propellants  
**Year:** 1986-1987

**Agency:** U.S. Navy  
**Funding Level:** \$3,442,797  
**Project Director:** Esworth Harris  
**Title of Project:** Development of Computerized System of Discrimination Compliant Procedure

**TEXAS SOUTHERN UNIVERSITY**  
**Houston, TX 77004**

**Contact: Claude Superville**  
**Director, Office of**  
**Institutional Effectiveness**

**Telephone: (713) 313-7320**

**STRONG ACADEMIC PROGRAMS AND SPECIALITIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Health Sciences	Health Administration Respiratory Therapy Medical Technology Environmental Health Health Information Management	Bachelor

**Laboratories and Other Facilities and Equipment**

Texas Southern University occupies a modern campus valued at \$225,000,000 located on 130 acres and consists of 45 buildings. Special instrumentation includes electron microscope, radiation pulse height analyzer, gas chromatography mass spectrometer system, polarography, nuclear magnetic resonance, infrared, ultraviolet and atomic absorption spectrometers, and various liquid chromatography systems. Research capabilities are further enhanced by the availability of online data retrieval resources, including internet. Major research facilities are located in Nabrit Hall and Gray Hall which have a total of 118,712 sq. ft.

The Environmental Chemistry and Toxicology Laboratory is a research entity within the Department of Chemistry at TSU. It was developed in 1990 with the principal mission of providing analytical quality control and has evolved into its present configuration and function over the past 6 years. The Laboratory now employs over 25 scientists and research personnel. The Laboratory's programs draw on extensive experience, expertise, and resources to conduct environmental monitoring studies, human exposure assessments, analytical methods and procedure development, technical support, and quality assurance services. In addition to its own staff, the Laboratory uses the services of the professional staff of the University and outside consultants, when necessary. It also engages in cooperative activities with research organizations in and out of the United States.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Texas Transportation Institute  
**Funding Level:** \$10,000  
**Project Director:** Carol Lewis  
**Title of Project:** Operating Freeways with Managed Lanes

**Agency:** Texas Transportation Institute  
**Funding Level:** \$158,300  
**Project Director:** Carol Lewis  
**Title of Project:** Interagency Contract between the Texas Transportation Institute and Texas Southern University

**Agency:** Harris Miller, Miller & Hanson  
**Funding Level:** \$5,280  
**Project Director:** Carol Lewis  
**Title of Project:** Agreement between Harris Miller Miller & Hanson, Inc. and Texas Southern University Center for Transportation Training and Research For Services in Connection with Houston METRO Noise and Vibration Assessment

**Agency:** Texas A&M Research Foundation  
**Funding Level:** \$575,019  
**Project Director:** Carol Lewis  
**Title of Project:** Subcontract between Texas A&M Research Foundation and Texas Southern University

**Agency:** U.S. Department of Transportation/Federal Highway Administration  
**Funding Level:** \$50,000  
**Project Director:** Carol Lewis  
**Title of Project:** Transportation Expertise Pool

**Agency:** Texas Department of Transportation  
**Funding Level:** \$4,500  
**Project Director:** Lei Yu  
**Title of Project:** TxDOT Research Technical Assistance Panels

**Agency:** Texas Department of Transportation  
**Funding Level:** \$70,000  
**Project Director:** Lei Yu  
**Title of Project:** Yellow and Red Intervals to Improve Signal Timing Plans for Left Turn Movements

**Agency:** Texas Department of Transportation  
**Funding Level:** \$80,000  
**Project Director:** Lei Yu  
**Title of Project:** Airport Related Traffic and Mobile Emission Implications

**Agency:** Texas Department of Transportation  
**Funding Level:** \$87,000  
**Project Director:** Lei Yu  
**Title of Project:** Probability Generation of Frequency and Severity of Nonrecurring Congestion Due to Accidents to Improve Emmissions Analysis

**Agency:** Department of Energy/Clark Atlanta University  
**Funding Level:** \$90,000  
**Project Director:** Bobby Wilson  
**Title of Project:** SU/HBCU/MI Environmental Technology Consortium

**Agency:** Howard University/U.S. Department of Energy  
**Funding Level:** \$100,000  
**Project Director:** Sub grant Agreement 633254-192526 between Howard University and Texas Southern University

**Agency:** National Aeronautics and Space Administration  
**Funding Level:** \$204,500  
**Project Director:** Govindarajan Ramesh  
**Title of Project:** Studies with in vivo Model of Simulated Microgravity on Calcium Homeostasis and Expression on Immediate Early Response Genes in Mouse Brain

**Agency:** Texas Engineering Experiment Station  
**Funding Level:** \$87,829  
**Project Director:** O.A. Jejelowo  
**Title of Project:** University Research, Engineering and Technology Institute Intelligent Bio-Nano Materials-Subrecipient Agreement 68373 between the Texas Engineering Experiment Station and Texas Southern University

**Agency:** American Parkinson Disease Association, Inc.  
**Funding Level:** \$17,500  
**Project Director:** Palur G. Gunasekar  
**Title of Project:** APDA Research Grant

**Agency:** National Aeronautics and Space Administration  
**Funding Level:** \$100,000  
**Project Director:** Oscar Criner  
**Title of Project:** NASA Center on Model-Based Simulation  
Structural and Materials Systems

**Agency:** National Institutes of Health  
**Funding Level:** \$1,152,134  
**Project Director:** Barbara Hayes  
**Title of Project:** Institute for Health Research of the Disadvantaged

**Agency:** National Institutes of Health  
**Funding Level:** \$160,659  
**Project Director:** Barbara Hayes  
**Title of Project:** Institute for Health Research of the Disadvantaged  
(additional funding)

**Agency:** Department of Health and Human  
Services/National Institutes of Health/National  
Institute of Mental Health  
**Funding Level:** \$336,905  
**Project Director:** Ekere J. Essien  
**Title of Project:** Videotape-based HIV Prevention Intervention

**Agency:** Department of Health and Human  
Services/National Institutes of Health/National  
Heart, Lung, and Blood Institute  
**Funding Level:** \$500,000  
**Project Director:** Adebayo O. Oyekan  
**Title of Project:** Texas Southern University Research Scientist  
Award

**Agency:** Department of Health and Human  
Services/National Institutes of Health/National  
Heart, Lung, and Blood Institute  
**Funding Level:** \$141,000  
**Project Director:** Momoh Yakubu  
**Title of Project:** Cerebral Microvascular Endothelin Production

**Agency:** Department of Health and Human  
Services/National Institutes of Health/National  
Heart, Lung, and Blood Institute  
**Funding Level:** \$40,802  
**Project Director:** Momoh Yakubu  
**Title of Project:** Cerebral Microvascular Endothelin Production-  
Minority Undergraduate Research Supplement

**UNIVERSITY OF HAWAII AT MANOA  
Honolulu, HI 96822**

**Contact: Mr. Kevin Hanaoka  
Office of Research  
Services**

**Telephone: (808) 956-7800  
Fax: (808) 956-9081  
Email: hanaokak@hawaii.edu**

**INSTITUTIONAL RESEARCH CAPABILITY SUMMARY**

The University of Hawaii was founded in 1907 as a land grant institution. Although its system is statewide, almost all graduate programs are conducted at the Manoa campus in Honolulu. The Institution's Departments focus of study and research in the Medical and Allied Sciences programs have an interdisciplinary approach. Faculty members are involved in research projects in areas of molecular biology, immunology medical microbiology, embryology, neurosciences, cancer reproduction, heart disease, AIDS research, biostatistics, epidemiology, tropical medicine, and clinical chemistry. Research resources include the laboratories of the Pacific Biomedical Research Center and the Bekesy Laboratory, the Cancer Research Center of Hawaii, the Hawaii Institute of Marine Biology and the computing center. Clinical facilities are also available at all major hospitals associated with the medical school.

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Microbiology	Medical Bacteriology	Bachelors Masters Doctorate

**Laboratories and Other Facilities and Equipment**

General Microbiology Laboratory - BSL-2, BSC-II, PCR, Blotting, Hybridization Oven

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James Douglas	Ph.D.	Immunology	Molecular Epidemiology, Tuberculosis, Leprosy, Leptospirosis, Brucellosis, Detection of Bacteria Anti-Microbial Testing, BSL-3 Use and Construction

**PROGRAM 2**

Cell and Molecular Biology

**SPECIALTY**Biochemistry, Genetics,  
Immunology,  
Neurobiology,  
Embryology,  
Endocrinology,  
Carcinogenesis, Retro  
virology,  
Parasitology, Reproductive  
Biology**DEGREE LEVEL**Masters  
Doctorate**Laboratories and Other Facilities and Equipment**

Individual investigators are spread throughout the John A. Burns School of Medicine, the Cancer Research Center of Hawaii, the Institute of Biogenesis Research, Pacific Biomedical Research Center, the Queens Medical Center, and the Colleges of Natural Sciences and Tropical Agriculture at UH Manoa. Researchers also make use of the Core Facilities for Biotechnology and Molecular Biology Instrumentation and training for automated DNA sequencing, micro arrays, oligonucleotide synthesis, denaturing HPLC, real-time PCR, and confocal microscopy. Laboratory equipment varies with individual programs, but there are tissue culture capabilities, preparative ultracentrifuges, spectrophotometers, electrophoresis apparatus, a laser for fluorescence spectroscopy, media kitchens, rearing rooms, laboratory facilities for small animal rearing, cold-rooms, microscopes for cytogenetics and chromosomal painting, and computers for epidemiological, proteomic and genomic studies with access to electronic databases and online journal subscriptions.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Andre Bachman	Ph.D.	Cancer Biology	Membrane Proteins
Marla Berry	Ph.D.	Endocrinology	Selenoproteins
John Bertram	Ph.D.	Cancer Biology	Carotenoids/Gap Junctions
Caroline Blanchard	Ph.D.	Neurobiology	Psychopharmacology
Robert Blanchard	Ph.D.	Neurobiology	Ethno pharmacology
Patricia Blanchette	Ph.D.	Geronotology	Alzheimer's Disease
Dulal Borthakur	Ph.D.	Biotechnology	Plant Molecular Physiology
Charles Boyd	Ph.D.	Human Genetics	Matrix Proteins
Gillian Bryant-Greenwood	Ph.D.	Endocrinology	Maternal-Placental Hormones
Rebecca Cann	Ph.D.	Genetics	Mt. DNA

Sandra Chang	Ph.D.	Immunology	Vaccine Development
Ian Cooke	Ph.D.	Neurobiology	Peptidergic Neurons
Robert Cooney	Ph.D.	Cancer Biology	Carcinogenesis
Bonnie Cramer	Ph.D.	Biochemistry	Intracellular Signaling
Katalin Csiszar	Ph.D.	Cancer Biology	Lysol Oxidase/Tumor Suppressors
H. Gert de Couet	Ph.D.	Genetics	Cytoskeletal Proteins
David Haymer	Ph.D.	Genetics	Repetitive Gene Families
Andrea Fleig	Ph.D.	Neurobiology	Excitation-Contraction of Muscles
Michael Hadfield	Ph.D.	Embryology	Metamorphosis/ Marine Invertebrates
Daniel Hartline	Ph.D.	Neurobiology	Small Network Neurophysiology
John Hu	Ph.D.	Virology	Plant Molecular Virology
Tom Humphreys	Ph.D.	Immunology	Evolution of Immune Function
David Jameson	Ph.D.	Biochemistry	Biophotonics
Laurence Kolonel	Ph.D.	Cancer Biology	Markers in Multiethnic Populations
Kristin Kumashiro	Ph.D.	Biochemistry	Solid State NMR
Alan Lau	Ph.D.	Cancer Biology	Gap Junctions/Oncogenes
Claude Le Saux	Ph.D.	Immunology	Asthma/Interleukins/ Lung Function
Olivier Le Saux	Ph.D.	Genetics	Human Skin Disorders
Ping An Li	Ph.D.	Neurobiology	Ischemic Brain Damage
Patricia Lorenzo	Ph.D.	Cancer Biology	Diacylglycerols in Carcinogenesis
Scott Lozanoff	Ph.D.	Embryology	Craniofacial Development
Yuanan Lu	Ph.D.	Virology	Retroviruses in the Marine Environment
Terrance Lyttle	Ph.D.	Genetics	Segregation Distorters/ Heterochromatin
Yusuke Marikawa	Ph.D.	Embryology	Body Axis Formation
Mark Martindale	Ph.D.	Embryology	Pattern Formation/ Differentiation

Lynnae Millar	M.D.	Reproductive Biology	Distention/Gene Expression/Decidua
Vivek Nerukar	Ph.D.	Virology	Viral Pathogens/Marine Viruses
Reinhold Penner	Ph.D.	Neurobiology	Calcium Signaling
Martin Rayner	Ph.D.	Neurobiology	Sodium Channels
Steven Robinow	Ph.D.	Genetics	Apoptosis/Hormonal Regulation
John Scott	Ph.D.	Biochemistry	DNA Replication Enzymology
Elaine Seaver	Ph.D.	Embryology	Segment Polarity Signals
Steven Seifried	Ph.D.	Biochemistry	Bioinformatics/Proteomics
Jes Stollberg	Ph.D.	Neurobiology	Acetylcholine Receptors
Elizabeth Tam	Ph.D.	Immunology	Mast Cell Proteases/Asthma
Andre Theriault	Ph.D.	Biochemistry	Lipid Metabolites/ Cardiovascular Disease
Helen Turner	Ph.D.	Neurobiology	Canabinoid Receptors/Cell Signaling
Zsolt Urban	Ph.D.	Genetics	Elastin Gene Mutations
Carl Vogel	MD/Ph.D.	Cancer Biology	Neuroblastoma/Cobra Venom
Randy Wada	M.D.	Cancer Biology	Molecular Oncology
Steve Ward	Ph.D.	Embryology	Tertiary Structure of DNA
Athula Wikramanayake	Ph.D.	Embryology	Wnt Genes/Developmental Pathways
Karen Yamaga	Ph.D.	Immunology	Immunological Mechanisms/ Disease
Angel Yanigahara	Ph.D.	Neurobiology	Biochemistry of Neurotoxins
Richard Yanigahara	M.D.	Retro virology	Viral Pathogens/Emerging Infections
Ryuzo Yanagimachi	Ph.D.	Embryology	Assisted Reproduction in Animals

**PROGRAM 3**

Tropical Medicine & Medical Microbiology

**SPECIALTY**

Bacteriology  
Immunology  
Medical Microbiology  
Parasitology  
Virology

**DEGREE LEVEL**

Doctorate  
Masters

### **Laboratories and Other Facilities and Equipment**

The Department of Tropical Medicine is located in the Leahi Hospital complex and consists of approximately 14,051 square feet of fully furnished and equipped laboratory rooms, teaching lecture-laboratory room, offices, conference-library room and glassware preparation room. The general facilities include a walk-in cold room, incubators: CO<sub>2</sub>, reach-in, shaker, walk-in, ultra-low temperature freezers, centrifuges: floor model, ultracentrifuge, micro-centrifuge, laminar flow hoods, microscopes: fluorescent and whole light, SDS-PAGE systems, immunoblot systems, PCR thermal cyclers, liquid nitrogen tanks, spectrophotometers, ELISA readers, agarose gel electrophoresis system, pH meters, fraction collector, beta counter, gamma counter, Savant system, gel driers, gas blenders, ultra low temperature freezers, electoporator, glassware washer, drying oven, sterilizing oven, autoclaves, Milli-Q water system, and glass still.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Sandra Chang	Ph.D.	Microbiology & Immunology	Immunology, Molecular Biology, Molecular Approaches to Vaccine Development
Arwind Diwan	Ph.D.	Virology & Immunology	Medical Virology: Chemotherapy, Vaccines
William Gosnell	Ph.D.	Tropical Medicine	Host Parasite Interactions, Malaria, Immunology
George Hui	Ph.D.	Tropical Medicine	Parasitology, Immunology, Cell Biology
Kenton Kramer	Ph.D.	Biostatistics-Epidemiology	Parasitology, Epidemiology, Leptospirosis, HIV Serodiagnosis
Vivek Nerurkar	PhD.	Zoology	Pathogenesis of Infectious Diseases, Delineating Cellular and Molecular Mechanisms Underlying Microbe-Host Interaction
Karen Yamaga	Ph.D.	Microbiology	Immunological Mechanisms of Diseases, Autoimmunity

### **Recent DoD/Other Contract/Grant/Procurement Experience**

Independent Contractor to PACOM, Booz Allen and Hamilton

## **CANCER RESEARCH CENTER OF HAWAII**

### **INSTITUTIONAL RESEARCH CAPABILITY SUMMARY**

The Cancer Research Center of Hawaii (CRCH) was originally conceived and organized in 1971 by a group of University of Hawaii faculty from several departments in an effort to create a multidisciplinary approach to cancer research. Early development of CRCH was supported by an NCI Cancer Center Planning Grant and three subsequent Cancer Center Support Grants (CCSG) from the NCI. The development culminated in the erection of a five-story building dedicated to cancer research in downtown Honolulu on the campus of Queen's Medical Center, the largest hospital in the State of Hawaii, with support from an NCI Construction Grant. The University of Hawaii Board of Regents established the CRCH in 1981 as a separate organized research unit. CRCH is administratively not part of the School of Medicine or any other school or college of the University of Hawaii but a separate entity within the University of Hawaii at Manoa, the flagship research campus of the University of Hawaii system.

#### **Laboratories and Other Facilities and Equipment:**

The vast majority of Center members are housed in a dedicated five-story building in downtown Honolulu adjacent to Queens Medical Center. Excluding general use space, the Center has approximately 33,000 square feet total area dedicated to research and research support activities. This space consists of approximately 11,000 square feet of laboratory space, 10,000 square feet of office space, 2,500 square feet of administrative space, and 1,200 square feet of the Center's outpatient clinic facility. In addition, the Center has several seminar rooms of various sizes, the Cancer Center library, liquid nitrogen long-term storage facilities, and general storage space with a total area of approximately 7,000 square feet. The CRCH building houses the Cancer Center administration, all but one member of the Cancer Etiology Program, the entire Prevention and Control Program, and a portion of the Natural Products Program. The CRCH building also houses all shared resources with the exception of the Molecular Biology Shared Resource.

In addition to the CRCH building, the Hawaii Tumor Registry occupies approximately 1,800 square feet of office space on the fifth floor of the University Tower, adjacent to the CRCH building on the campus of Queens Medical Center. Several members of the Natural Products Program have their laboratories and offices on the University of Hawaii Manoa Campus, comprised of 8,800 square feet of laboratory space and 830 square feet of office space in the Departments of Chemistry and Botany, respectively. Several members of the Social and Behavioral Sciences Program occupy 3500 square feet of space in the Biomedical Sciences Building on the Manoa campus. The Molecular Biology Shared Resource is located on the Manoa Campus, occupying 815 square feet of space.

The Analytical Laboratory Shared Resource provides for the chemical analysis of molecules of interest from human tissues and body fluids in support of clinical,

epidemiological, and basic science studies. This shared resource focuses on determinations of plasma micronutrients and metabolites in support of many peer-reviewed studies by cancer investigators, using state-of-the-art HPLC, LC/MS, and GC/MS methodology.

The Nutrition Support Shared Resource is a unique resource that provides methodologies for assessing dietary intakes for epidemiologic, clinical, and preventive research studies and consultation on all aspects of dietary assessment. Diet history (quantitative food frequency) questionnaires are designed and developed by this resource to estimate the usual dietary intake of study participants and to test various dietary hypotheses in cohort, case-control, and intervention studies. In addition, the nutrition support staff maintains and continually updates several databases, such as the food composition, recipe, dietary supplement, and household measurement databases. Currently, more than 2,200 food items with approximately 130 dietary components and 1,500 supplements each are included in the database. There are about 700 recipes of mixed dishes developed specifically for the multiethnic participants in epidemiologic studies conducted by Center investigators in Hawaii. The Nutrition Support Shared Resource is indeed a national resource which is frequently called upon by investigators from other cancer centers throughout the nation.

The Biostatistics Shared Resource provides statistical support for all research programs at CRCH. Consultation is provided on study design, data collection, and data analysis to epidemiologists, behavioral, laboratory, and clinical scientists.

The Laboratory Instrumentation Shared Resource is a support facility for the service and repair of scientific equipment. The resource also provides the tools and skills for the construction of minor scientific instrumentation and other laboratory equipment. Because of the geographical isolation from the U.S. mainland, this particular resource is of vital importance to the research operations of the Cancer Center, as it allows for the timely and cost effective maintenance and repair of equipment.

The Genomics Shared Resource was created in 1999 to provide support to Center's investigators in the area of molecular genetics. A variety of assays are performed on study samples. These include a large number of PCR/RFLP polymorphism detection assays for genes involved in the metabolism of xenobiotics, nutrients or endogenous hormones, as well as micro satellite instability testing in tumor samples. An additional activity of the GSR is to develop protocols to facilitate the collection and long-term storage of biospecimens for genetic studies in epidemiologic research. Further work was conducted on validating a mouthwash method for collecting buccal cell DNA by mail. Other methodological work focused on the cryopreservation of lymphocytes for future immortalization.

The Hawaii Tumor Registry maintains a database of information on virtually all cases of cancer diagnosed in the State of Hawaii. It provides complete cancer reporting for the entire state and serves as a resource for nearly all epidemiological cancer research and cancer control activities in Hawaii. It is in its 39<sup>th</sup> year of operation and represents one of the most successful tumor registries in the nation. The Hawaii Tumor Registry database

contains more cancer cases among native Hawaiians than any other registry nationwide. It also contains sizable numbers of Caucasian, Chinese, Filipino, and Japanese cases, as well as cases of other smaller ethnic groups (Koreans, Samoans, Tongans, etc.). This racially diverse database has been invaluable in demonstrating ethnic variations in cancer incidence and survival. Its use by hospitals and physicians interested in cancer statistics and by CRCH research faculty has resulted in numerous projects and publications. Support for the Hawaii Tumor Registry is primarily from the NCI Surveillance, Epidemiology, and End Results (SEER) program, with additional funding from the State of Hawaii Department of Health. Currently, the Hawaii Tumor Registry database contains well over 100,000 cases diagnosed from 1960 to 1999.

### **STRONG RESEARCH PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Etiology	Epidemiology Biostatistics Nutrition Biochemistry Molecular Genetics Molecular Biology	

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Bertram	Ph.D.	Molecular Biology	Gap Junctional Communication. Carotenoids in Cancer Prevention
Wang Kit Cheung	Ph.D.	Biostatistics	Bioinformatics and Epidemiology of Cancer
Robert Cooney	Ph.D.	Biochemistry	Nitric Oxide Chemistry. Tocopherols and Cancer Prevention. Carotenoids
Adrian Franke	Ph.D.	Chemistry	Analytical Chemistry of Phytochemicals. Flavonoid and Phytochemicals. Flavonoid and Isoflavonoid Prevention of Cancer

David Fritzing	Ph.D.	Molecular Biology	Molecular Biology of Complement
Marc Goodman	Ph.D.	Epidemiology	Epidemiology of Cancer
Brenda Hernandez	Ph.D.	Epidemiology	Cervical Cancer and the Role of Human Papilloma Virus in its Etiology
Laurence Kolonel	M.D., Ph.D.	Epidemiology	Epidemiology of Cancer
Loic LeMarchand	M.D., Ph.D.	Epidemiology	Epidemiology of Cancer Molecular Genetics
Suzanne Murphy	Ph.D.	Nutrition	Nutrition and Cancer
Abe Nomura	Ph.D.	Epidemiology	Epidemiology of Cancer
Gita Sharma	Ph.D.	Nutrition	Nutrition & cancer
Carl Vogel	M.D., Ph.D.	Molecular Biology	Immunology of Neuroblastoma Role of Complement in Cancer Treatment
Lynne Wilkens	Ph.D.	Biostatistics	Epidemiology of Cancer

**PROGRAM 2**

**SPECIALTY**

**DEGREE LEVEL**

Natural Products

Chemistry  
Ethno botany  
Molecular Biology  
Microbiology

**Researchers: Academic Background & Research Specialty(ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

Andre Bachmann	Ph.D.	Molecular Biology	Signal Transduction
Bonnie Cramer	Ph.D.	Molecular Biology	Gap Junctional Communication Signal Transduction
Alan Lau	Ph.D.	Molecular Biology	Oncogenes, Signal Transduction and Gap Junctional Communication
Patricia Lorenzo	M.D.	Molecular Biology	Protein Kinase C and Signal Transduction Pathways

Marc Tius	Ph.D.	Chemistry	Synthetic Chemistry of Anti-Cancer Natural Products
Randy Wada	M.D.	Molecular Biology	Neuroblastoma, Mechanisms of Retinoid Action. N-myc Oncogene Regulation

**PROGRAM 3**

**SPECIALTY**

**DEGREE LEVEL**

Clinical Sciences	Psychology Behavioral Science Social Science Public Health Oncology Pediatric Oncology
-------------------	---

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Cheryl Albright	Ph.D.	Behavioral Science	Diet and Exercise in the Prevention of Chronic Disease
Carolyn Gotay	Ph.D.	Psychology	Quality of Life Research
Brian Issell	M.D.	Oncology	Clinical Oncology, Complementary and Alternative Medicine
Lana Kaopua	Ph.D.	Social Science	Immunology, Molecular Biology; Molecular Approaches to Vaccine Development
Gertraud Maskarinec	M.D., Ph.D.	Public Health/ Epidemiology	Phytoestrogens and Dietary Prevention of Cancer Mammographic Density as a Predictor Risk
Miles Muraoka	Ph.D.	Psychology	Quality of Life Research
David O'Riordan	Ph.D.	Behavioral Science	Sun Exposure and Cancer Risk
Lisa Sanchez	Ph.D.	Psychology	Dietary, Smoking and Exercise in Minority Populations at Risk

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** DoD  
**Project Director:** Laurence N. Kolonel, M.D., Ph.D.  
**Title of Project:** DADM-17-00-1-01-02

**Agency:** DoD  
**Project Director:** Loic Le Marchand, M.D., Ph.D.  
**Title of Project:** DAMD-17-00-1-0283

**Agency:** DoD  
**Project Director:** Gertraud Maskarinec, M.D., Ph.D.  
**Title of Project:** DAMD-17-00-1-0281

**Agency:** DoD  
**Project Director:** Gertraud Maskarinec, M.D., Ph.D.  
**Title of Project:** DAMD-17-00-1-0260

**Agency:** DoD  
**Project Director:** John S. Bertram, Ph.D.  
**Title of Project:** DAMD-17-98-1-8196

**Agency:** DoD  
**Project Director:** Carolyn C. Gotay, Ph.D.  
**Title of Project:** DAMD-17-96-1-6009

**Agency:** DoD  
**Project Director:** Thomas Hemscheidt, Ph.D.  
**Title of Project:** DAMD-17-00-1-0282

**Agency:** DoD  
**Project Director:** Thomas Hemscheidt, Ph.D.  
**Title of Project:** F49620-01-1-0524

**UNIVERSITY OF PUERTO RICO**  
**Medical Science Campus**  
**San Juan, Puerto Rico 00936**

*Data from 1996*

**Contact: Ms. Mariam Rivero-Cano**  
**Office of Sponsored Programs**

**Telephone: (809) 758-2380**  
**Fax: (809) 766-6764**

**INSTITUTIONAL RESEARCH CAPABILITY SUMMARY**

The University of Puerto Rico is a state-funded, public coeducational institution of higher learning. The Medical Sciences Campus is located in San Juan within the grounds of the Puerto Rico Medical Center. The institution grants degrees in all the principal fields of Health Sciences. It houses the schools of Medicine, Dentistry and Pharmacy, the division of graduate studies in biosocial sciences and Public Health, The School of Allied Health Professions and the biomedical sciences. The division of graduate studies in the biomedical sciences offers programs leading to the Doctorate and Masters degrees in physiology, anatomy, biochemistry, microbiology and pharmacology. There is collaboration between the Medical Sciences Campus and the Department of the Rio Piedras Campus in sponsoring an inter-campus Doctorate program in biology. Research facilities for faculty and student body are in the Medical Science Campus building with ancillary facilities in the Institute of Neurobiology. an interdepartmental, interdisciplinary research facility which is devoted to and equipped for the study of excitable cells and the neurobiology systems formed by them. Laboratory facilities are open to cellular neurobiologists and to research workers of different disciplines, i.e., physiologists, anatomists, biochemists, toxicologists, pharmacologists, zoologists from the University of Puerto Rico and visiting scientists from the United States and foreign countries. The Cancer Center, Center for the study of sexually Transmitted Diseases, Center for Energy and Environmental Research, Veterans Administration Hospital, University Hospital, Pediatric Hospital and affiliated hospitals serve as a focal point for collaboration and determining priorities for research and obtaining external funds for research and teaching. There are other research facilities. The Aids Research Center was created with the objective of establishing the technical infrastructure essential to the pursuit of AIDS research. This includes the development of sophisticated laboratory and animal facilities that has the capability of performing serologic testing (ELISA, IFA, Western Blots), viral isolation, and animal research at biosafety 3 level, suitable for vaccine development. The Animal Resources Center is responsible for the procurement and daily care of all animals used for teaching and research. The animal facilities are fully accredited by the American Association for the Accreditation of Laboratory Animal Care (AAALAC). The Caribbean Primate Research Center (CPRC) has more than 2,000 non-human primates available for biomedical and behavioral research in the Island of Cayo Santiago and in the Municipality of Toa Baja. The Center for Tropical Medicine and Parasitology (CTMP) was created as a center of excellence for research and training.

## **STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology & Biomedical	Microbiology Physiology Biochemistry Pharmacology Anatomy	Masters

### **Laboratories and Other Facilities and Equipment**

The Division's facilities are housed in the Medical Sciences Campus building, with ancillary facilities in the Institute of Neurobiology the Caribbean primate Center, the Cancer Center, the Center for the Study of Sexual Transmitted Diseases, the Center for Energy and Environmental Research, the Veterans Administration Hospital, the University Hospital, the University Pediatric Hospital, and affiliated hospitals. These facilities house research and teaching laboratories, faculty offices, lecture rooms, and specialized libraries. A central library serves the general needs of the academic community, and there are linkages with other local and national libraries. Each department has its own laboratories and office space for faculty and students as well as specialized equipment. A system of core laboratories serves the needs of several departments, providing facilities for tissue culture, electron microscopy, flow cytometry and cell sorting, histocompatibility testing, and hybridoma preparation, as well as a BL3 virology laboratory and state-of-the-art animal facilities, including BL3 areas for nonhuman primates.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Luis A. Clavell	M.D.	Biology	Regulatory factors in the proliferation and differentiation of leukemia cells
Elsa M. Cora	Ph.D.	Biology	Molecular and genetic alterations during Tumorigenesis
Sydney P. Craig, III	Ph.D.	Molecular Biology	Enzyme structure-based drug design; protein biochemistry; protein structure-function relationships; molecular biology

Jose del Castillo	M.D.	Physiology	Physiology and pharmacology of acetylcholine receptor
W.C. DeMello	M.D.	Pharmacology	Intercellular communication variation in junction permeability
Manfred Eberhardt	Ph.D.	Chemistry	Physical chemistry; free radicals
E. Fernandez Repollet	Ph.D.	Nutrition	Effects of protein malnutrition in renal function
Ahmed F. Habeeb	Ph.D.	Biology	Protein structure-function relationships
George V. Hillyer	Ph.D.	Molecular Biology	Immunology and molecular biology of parasitic infections
Sidney Kaye	Ph.D.	Toxicology	Forensic Toxicology
Robert W. Kensler	Ph.D.	Biology	Macromolecular structure of muscle thick filaments
Earl Kicliter	Ph.D.	Biology	Structure and function of vertebrate visual systems
Wieslaw J. Kozek	Ph.D.	Biology	Epidemiology, Immunity and ultra structure of Medically important Helminths
Damien Kuffler	Ph.D.	Parasitology	Nerve Regeneration; How axons find their target
Angel A. Roman-Franco	Ph.D.	Biochemistry	Nonenzymatic Bioactivation of chemical carcinogens
Adelfa E. Serrano	Ph.D.	Molecular Biology	Molecular Biology and Immunology of Parasites; Drug Resistant Mechanisms in Plasmodium
Phillip C. Specht	Ph.D.	Chemistry	Computer Simulation of Pharmacokinetics
Susan Corey Specht	Ph.D.	Pharmacology	Evolution and Pathological Significance of Na pump isoforms
Louis Kent Stilzer	Ph.D.	Biology	Thyroid hormone mechanisms of action

Luis J. Torres-Bauza	Ph.D.	Anatomy	Functional Anatomy of the Musculoskeletal system of primates
Barbara H. Zimmerman	Ph.D.	Biochemistry	Enzyme Biochemistry; Biosynthesis of Pyrimidines
Conchita Zuazaga	Ph.D.	Biology	Electrical Excitability of biological Membranes

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated.

**UNIVERSITY OF TEXAS HEALTH SCIENCES CENTER  
San Antonio, TX 78229-3900**

**Contact: Theresa Chiang, Ed.D. Telephone: (210) 567-2004**  
**Associate VP for Academic Affairs & Executive Director of Student Services Fax: (210) 567-1616**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u><b>PROGRAM 1</b></u>	<u><b>SPECIALTY</b></u>	<u><b>DEGREE LEVEL</b></u>
Biomedical Science		Masters Doctoral

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<u><b>NAME</b></u>	<u><b>DEGREE</b></u>	<u><b>DISCIPLINE</b></u>	<u><b>RESEARCH SPECIALTY</b></u>
Martin L. Adamo		Biochemistry	Genetic Regulation of IGF-1
Shanjana Awasthi		Pathology	Dendritic-Cell Based Vaccine, Coccidioides Immitis
Joel Basaeman		Microbiology	Allergy & Infectious Diseases
Michael Berton		Microbiology	Allergy & Infectious Diseases
Tadayoshi Bessho		Molecular Medicine	BRCA2
Thomas Boyer		Molecular Medicine	BRCA1 Cancer
Robert Brenner		Physiology	Airway Smooth Muscle Cardiovascular
David Burgess		Pharmacology	Pharmaceutical Testing
Ivan Cameron		Cellular & Structural Biology	Radiotherapy Therapeutic Electromagnetic Fields (Temps)
Bandana Chatterjee		Molecular Medicine	DHEA-Sulfotransferase
Di Chen		Cellular & Structural Biology	Arthritis/Musculoskeletal/Skin Diseases
Barbara Christy		Molecular Medicine	Diabetes
Borries Demeler		Biochemistry	Internet 2 Connectivity
Subramanian		Microbiology	Mycobacterium Tuberculosis
Dhandayuthapani			
Lily Q. Dong		Cellular & Structural Biology	Cardiovascular
Kristin Fiebelkorn		Pathology	Pharmaceutical Testing

Charles Patrick France	Pharmacology	Pharmaceutical Testing Self Administration Behavior in Monkeys Stimulant Abuse
Alan Frazer Maria Gacqynska	Pharmacology Molecular Medicine	Pharmaceutical Testing Peptide Regulators of Angiogenesis Proteasome, Proteasome Inhibitors in Breast Cancer
Nikita L. Gamper Nandini Ghosh-Choudh Gary Green	Physiology Pathology Physiology	Cardiovascular Cardiovascular Luminal Cholecystokinin Releasing Factor
Jeffrey Hansen	Biochemistry	Native and Mutant MECP2 Interactions with Chromatin and SIN3P
Julie Hensler Brian Herman	Pharmacology Cellular & Structural Biology	Pharmaceutical Testing Aging Prolactin
Carmen Hinojosa-Labc Peter Hornsby James Jackson	Pharmacology Physiology Cellular & Structural Biology	Aging Aging MRG15 Overexpression
Jean Jiang	Biochemistry	Mechanical Strain in Osteocyte Function Ophthalmology
James Jorgensen	Pathology	Antimicrobial Resistance Testing, Pharmaceutical Testing
Robert Klebe	Cellular & Structural Biology	Tissue Engineering
Karl Klose Keith Krolick John Kuhn Eileen Lafer Yui-Wang Frances Lar Pamela Larsen	Microbiology Microbiology Pharmacology Biochemistry Pharmacology Cellular & Structural Biology	Allergy & Infectious Diseases Myasthenia Gravis Cancer Muscular Dystrophy Special Chemistry Analysis Nutritional Coenzyme Q and DAF-2 Signaling
Robin Leach	Cellular & Structural Biology	Cancer
James Lechleiter	Cellular & Structural Biology	Medical Science
Sang Lee Wen-Hwa Lee	Molecular Medicine Molecular Medicine	Cancer Cancer
Richard Luduena Sarah Martinez	Biochemistry Microbiology	Mouse Cancer Models Blood BII-Tubulin Stachybotrys Chartarum

Lee McAlister-Henn	Biochemistry	Medical Science
David Morilak	Pharmacology	Mental Health, Pharmaceutical Testing
Gregory Mundy	Cellular & Structural Biology	Arthritis/Musculoskel/Skin Diseases
Michael Naski	Pathology	Arthritis/Musculoskel/Skin Diseases
Susan L. Naylor	Cellular & Structural Biology	Cancer, Megabase Sequencing
James Nelson	Physiology	Longevity Mutants in Mice
Pawel Osmulski	Molecular Medicine	Proteasome
Sophia E. Pina	Microbiology	Dental & Craniofacial
Teresa Quitugua	Microbiology	Molecular Epidemiology
Qitao Ran	Physiology	Aging
Hai Rao	Molecular Medicine	RAD23 in Ubiquitin/Proteasome-Mediated Proteolysis
Russel Reiter	Cellular & Structural Biology	Melatonin
Arlan G. Richardson	Physiology	Aging, Reactive Oxygen Species
Michael Rinaldi	Pathology	Pharmaceutical Testing
Neal Robinson	Biochemistry	Phospholipid Stabilization of Subunit Interactions, Bacterial Oxidases
Arun K. Roy	Molecular Medicine	Aging
Pothana Saikumar	Pathology	Diabetes/Digestive/Kidney Diseases
Stephen R. Saklad	Pharmacology	Pharmaceutical Testing
Russell Sanchez	Pharmacology	Cardiovascular Epilepsy
Alexander Shepherd	Pharmacology	Pharmaceutical Testing
Olivia M. Smith	Cellular & Structural Biology	Aging
Rui J. Sousa	Biochemistry	Medical Science, T7 RNA Polymouse Transcription
Sue C. Stacy	Cellular & Structural Biology	Aging
James David Stockand	Physiology	Cardiovascular
Sean Stocker	Physiology	Cardiovascular
Luzhe Sun	Cellular & Structural Biology	Cancer, Soluble Betaglycan
Alan Tomkinson	Molecular Medicine	Structural Cell Biology

Dean A. Troyer	Pathology	Gene Expression Analysis Retinoids
Jan Vijg	Physiology	Aging, Environmental Health
Kristine Susan Vogel	Cellular & Structural Biology	Neurofibromatosis Type 1
Brian L. Wickes	Microbiology	Allergy & Infectious Diseases, Antimicrobial Coating for Biofilm Inhibition
Yan Xiang	Microbiology	Allergy & Infectious Diseases
Funmei Yang	Cellular & Structural Biology	Cardiovascular
Patricia Renee Yew	Molecular Medicine	Medical Science
Xining Zhu	Molecular Medicine	BRCA1

**PROGRAM 2**

Dentistry

**SPECIALTY**

**DEGREE LEVEL**

D.D.S.

D.D.S.

Doctoral

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Armen N. Akopian		Endodontics	Dental & Craniofacial
Ramon Baez		General Dentistry	Dental Baseplate Wax Fluoride Release
Edward J. Boland		Periodontics	Nasal Mucosa, Encapsulated Promethazine
David Cagna		Prosthodontics	Non-Occluding Provisional Crowns
David Cappelli		Community Dentistry	Periodontitis and Preterm Birth
Shuo Chen		Pediatric Dentistry	Dental & Craniofacial
David L. Cochran		Periodontics	Regulation of Bone Healing by Enamel Proteins Titanium Implant Surface Bone Regeneration
Kevin James Donly		Pediatric Dentistry	Tooth Enamel and Ceramic Restorations
Josephine F. Esquivel		General Dentistry	Drug Abuse, Human Nociceptors and Pain

Mary Macdougall	Pediatric Dentistry	Dental & Craniofacial Restorative Dentistry
James T. Mellonig	Periodontics	Periodontal Osseous Defects, Pharmaceutical Testing
Stephen B. Milam	Oral & Maxillofacial Surgery	Dental & Craniofacial
Joo L. Ong	Restorative Dentistry	BMP-2 Releasing Implant Surface, Bone Regeneration, Protein Adsorption, Cell Attachment, Differentiation, Onset of Mineralization, Titanium, Chrome Cobalt Alloy
Henry Rawls	Restorative Dentistry	Biofilm Inhibition, Corticosteroids, Dental & Craniofacial
Spencer W. Redding	General Dentistry	Antifungal Susceptibility, Pharmaceutical Testing
Neera Satsangi	Restorative Dentistry	BMP-2 Releasing Implant Surface
Geza T. Terezhalmay	Dental Diagnostic Science	Guatemalan Dental Studies, Tooth Surface Morphology
Chih-Ko Yeh	Dental Diagnostic Science	Dental & Craniofacial

**PROGRAM 3**  
Medicine

**SPECIALTY**

**DEGREE LEVEL**  
M.D.

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Hanna Abboud		Renal Disease	Diabetes/Digestive/Kidney Diseases
Seema Ahuja		Renal Diseases	Allergy & Infectious Diseases
Sunil Ahuja		Infectious Diseases	Allergy & Infectious Diseases
Gregory M. Anstead		Infectious Diseases	Interleukin-6
Antonio R. Anzueto		Pulmonary Diseases	Pharmaceutical Testing
Mazen Arar		Pediatrics	Pharmaceutical Testing

Vibhudutta Awasthi Steven R. Bailey Joseph W. Basler	Radiology Cardiology Urology	Lung Cancer Imaging Bifurcation Atherectomy Urologic Cancer Outreach, Pharmaceutical Testing, Selenium and Vitamin E Cancer Prevention
Oscar R. Benavente David Boldt Charles Bowden	Neurology  Hematology Psychiatry, Psychiatry-Mood & Anxiety Disorders	Neurological Disorders, Stroke Lymphoid Leukemia Biology Bipolar Disorder, Bipolar Illness, Pharmaceutical Testing
James Bower	Medical Imaging	Cerebellar Purkinje Cell and Cortex, Neuroscience, Olfaction
Robin L. Brey	Neurology	Antiphospholipid Antibody Syndrome, Brain Connections
Howard Britton Steven Brown Jan M. Bruder	Pediatrics Medical Imaging Endocrinology	Pharmaceutical Testing Brain Systems Glucocorticoid-Induced Osteoporosis
David Burgess	Clinical Pharmacology	Antimicrobials, Extended Spectrum Beta-Lactamase, Pharmaceutical Testing
John Calhoon Charles L. Caperton II Richard Cartie Robert Castro Sean Cavanaugh	Cardiothoracic Surgery Obstetrics & Gynecology Pediatrics Pediatrics Radiation Oncology	Pharmaceutical Testing Reproductive Technology  Pharmaceutical Testing Enac Expression 11C-Acetate Pet Staging, Prostate Cancer, Cancer
Jose E. Cavazos- Trevino Eugenio Cersosimo Yumay Chen	Neurology  Diabetes  Renal Diseases	Epilepsy  Type 2 Diabetes Mellitus  Kidney Disease, NEK1 Protein Kinase and Polycystic Kidney Disease
Kenneth Cusi	Diabetes	Glucose and Lipid Metabolism in Type 2 Diabetic Patients Pharmaceutical Testing
Albana M. Dassori Linda De Graffenried Ralph De Fronzo	Psychiatry- Schizophrenia Oncology  Diabetes	Hormone Refractory Breast Cance Tamoxifen-Resistant Breast Cance Diabetes

Daniel Lawrence Dent	General Surgery	Antifungal Therapy, Antimicrobial Resistance, Intra-Abdominal Infection
Katherine Billingham de Voogd Agustin Escalanate David Espino	Pediatrics	Genetic Counseling Strategies
David Essex Marc David Feldman	Clinical Immunology	Arthritis
Gabriel Fernandes	Family & Community Medicine Hematology Cardiology	Medications Analysis, Mexican American Aged Cardiovascular Pharmaceutical Testing, Porous Microprobe Stent for Inhibition of Restenosis
Robert Jean Ferry, Jr Michael Fischbach James Freeman Cesar Freytes	Clinical Immunology	Immunological and Molecular Studies N-3 Fatty Acid & Host Responses to Oral Infection Diabetes/Digestive/Kidney Diseases Diabetic Etiopathophysiology Scleroderma
Antonio Furino	Pediatrics	Cancer
Autumn Dawn Galbreath Jia-Hong Gao	Clinical Immunology	Chronic Lymphocytic Leukemia, Pharmaceutical Testing Health Care Workforce Distribution, Public Health Care Workforce
Shou-Jiang Gao David C. Glahn	Oncology Hematology	Asthma in a Decentralized Patient Population High Field (3T) MRI Scanning, Language Studies, fMRI Techniques
Jodi Gonzalez	Family & Community Medicine	Cancer Schizophrenia
Yves Gorin John Graybill Steven Haffner	Pediatrics	Latinos in Mental Health Services
Daniel Hale	Psychiatry-Mood & Anxiety Disorders Renal Diseases Infectious Diseases Epidemiology	Cardiovascular Invasive Fungal Infections Diabetes/Digestive/Kidney Diseases IGT Pharmaceutical Testing, STOPP-T2D
Catherine Hall	Pediatrics	Schizophrenia
Lawrence Harkless	Psychiatry- Schizophrenia Podiatry/Orthopedics	Pharmaceutical Testing

Robert Hart	Neurology	Neurological Disorders
Helen Hazuda	Epidemiology	Aging
Kelly J. Hunt	Epidemiology	Diabetes
Carlayne E. Jackson	Neurology	Pharmaceutical Testing
Carlos Jaen	Family & Community Health	Collaborative Diabetes Care
LeRoy Jones	Urology	Pharmaceutical Testing
Morton Kahlenberg	General Surgery	Breast and Bowel Cancer
Balakuntalam S. Kasinat	Renal Diseases	Diabetic Nephropathy
Bankole Akindeinde	Psychiatry-Alcohol & Drug Addiction	Pharmaceutical Testing
Johnson David	Family & Community Medicine	Improving the Efficiency of the Mentoring Relationship, Panic Disorder
Katerndahl Patricia Kelly	Public Health Research	Alcohol-Exposed Pregnancies, Nursing Research
Wouter Koek	Psychiatry-Alcohol & Drug Addiction	Drug Abuse
Jeffrey Kreisberg	General Surgery	CCI-779 in Brain Tumors, ERBB1 and ERBB2 Blockade
Jack Lancaster	Medical Imaging	Photogrammetric Matching of Faces
Valerie Lawrence	General Medicine	Beta Blockade
Donna Lehman	Epidemiology	Diabetes
Ming D. Li	Psychiatry-Alcohol & Drug Addiction	Drug Abuse
Senlin Li	Infectious Diseases	Macrophage Promoters
Jose Luis Lopez-Ribot	Infectious Diseases	Allergy & Infectious Diseases, Antimicrobial Coating for Biofilm Inhibition, Dental & Craniofacial
James Macdonald	Ophthalmology	Pharmaceutical Testing
Robert A. Marciniak	Oncology	Aging
Cervando Martinez	Psychiatry	South Texas Mental Health Research
Stuart McKinnon	Ophthalmology	Glaucoma, Ocular Amyloid Angiopathy
Martha Medrano	Hispanic Center of Excellence	Cancer Awareness Training & Research
Alexander Miller	Psychiatry-Schizophrenia	Medication Algorithm, Pharmaceutical Testing, Cancer
	General Surgery	

Shamimunisa Mustafa Mohan Natarajan	Pediatrics  Radiation Oncology	Cardiovascular  Low Let Low Dose Radiation Exposure Brain Tumor Therapy Impact-Supplement Pharmaceutical Testing
Pamela New Polly Noel Jerry Olsen	Neurology General Medicine Psychiatry- Schizophrenia	MRI Spectroscopy
Rene Olvera	Psychiatry- Child Psychiatry	Urokinase-Type Plasminogen Activator, Atherosclerosis and Restenosis
Julio Palmaz	Radiology	Allergy/Infectious Diseases, Cancer, Candida Mycoses Surveillance
Thomas Patterson	Infectious Diseases	GBS Colonization in Pregnant Women Pharmaceutical Testing
Jeanna Marie Piper Steven Pliszka	Obstetrics & Gynecology Psychiatry-Child Psychiatry	Apoptosis and Polycystic Kidney Disease Cancer
Rosaria Polci	Renal Diseases	Injury Prevention, Underage Drinking Diabetic Nephropathy, Pharmaceutical Testing Pharmaceutical Testing
Bradley Pollock	Epidemiology & Biostatistics	Alcohol Abuse & Alcoholism, Drug Abuse, Pharmaceutical Testing
Michelle Ann Price Wajeh Qunibi	Public Health Research Renal Diseases	Diabetic Retinopathy Dyspraxia and Autonomic Control, Memory, Pharmaceutical Testing
Peter Ravdin John Roache	Oncology Psychiatry-Alcohol & Drug Addiction	Diabetic Neuropathy, Fibromyalgia Pharmaceutical Testing Child Health & Human Development, Fat Reduction, HRT Use and Benign Breast Disease Risk, Pharmaceutical Testing
Carlos Rosende Donald Royall	Ophthalmology Psychiatry	Pharmaceutical Testing
Irwin Russell	Clinical Immunology	
Vada Kathleen Satterfield Robert Schenken	Podiatry/Orthopedics Obstetrics & Gynecology	
Steven Seidner	Pediatrics	

Stuart Kohler Shapira David Sherman	Pediatrics  Neurology	Neural Tube Defect, Pharmaceutical Testing Carotid Occlusion Surgery Study
Paula Kay Shireman Theresa Siler- Khodr Jair Soares	General Surgery  Obstetrics & Gynecology Psychiatry-Mood & Anxiety Disorders	Cardiovascular  Natural Menopause  Pharmaceutical Testing, Schizophrenia/Depression, TMS/PET/Unipolar Depression
William Sponsel Eugene Sprague John Steinberg  Michael Stern	Ophthalmology Radiology Podiatry/ Orthopedics Epidemiology	Pharmaceutical Testing Osteocyte Function Diabetic Foot Ulcers, Pharmaceutical Testing Diabetes, Genetics of Birth Weight, Genetics of Gall Bladder Disease
Ronald Stewart Chris Takimoto	Surgery Oncology	Pharmaceutical Testing Clinical Trials of Anticancer Agents, Pharmaceutical Testing, Pharmacogenetic Banking of DNA Samples Cancer
Rajeshwar Rau Tekmal	Obstetrics & Gynecology	
Bradford Therrell Charles Thomas, Jr. Ian Murchie Thompson Dawn Velligan	Pediatrics Radiation Oncology  Urology Psychiatry- Schizophrenia	Newborn Generic Screening Cancer Disparities, Pharmaceutical Testing Cancer Oral Atypical Antipsychotic Medication
Dr. Vijayalaxmi	Radiation Oncology	JP8 JET Fuel – Genotoxic and Cytotoxic Studies
Roberto Villarreal William Kenneth Washburn Geoffrey R. Weiss Craig A. Witz Barbara Woynarowska Jan Michal Woynarowski Jinhu Xiong	Public Health Research  Transplant Surgery  Oncology Obstetrics & Gynecology Radiation Oncology  Radiation Oncology  Medical Imaging	Border Health Improvement  Pharmaceutical Testing  Cancer, Markers of Breast Cancer Evolution and Progression Pharmaceutical Testing Irofulven in Tumor  Binding of Radiolabeled SR271425 to DNA Irofulven FMRI Metanalyses, Imaging

Toshiyuki  
Yoneda

Endocrinology

Mechanisms, Motor  
Learning  
Multiple Myeloma

**PROGRAM 4**

Nursing

**SPECIALTY**

**DEGREE LEVEL**

Bachelors

Masters

Doctoral

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

Carrie Jo Braden

Mary Z. Dunn

Cheryl R. Staats

Nursing Research

Chronic Nursing Care

Acute Nursing Care

Nursing Research

Cervical Cancer

Management

Diabetes/Heart

Disease

**XAVIER UNIVERSITY OF LOUISIANA**  
**New Orleans, LA 70125**

**Contact: Dr. Alden H. Reine, Sr.**  
**Program Coordinator**  
**Office of Sponsored Programs**

**Telephone: (504) 520-5445**  
**Fax: (504) 520-7901**  
**Email: areine@xula.edu**

**Institutional Research Capability Statement**

**Summary**

There are 103 historically Black colleges and 222 Catholic colleges in the United States, yet only one, Xavier University of Louisiana, is both historically Black and Catholic. Located in New Orleans, this small liberal arts college dates back to 1915, when the coeducational secondary school from which it evolved was founded by Saint Katharine Drexel and the Sisters of the Blessed Sacrament. St. Katharine Drexel was canonized by Pope John Paul II in October, 2000 . She came to the city at the request of the local archbishop to provide Blacks with opportunities for Catholic higher education. At the time, Black students were denied admission to existing local and state Catholic colleges.

The Sisters of the Blessed Sacrament remain a vital presence on campus today, providing much-needed staffing and some financial assistance, but today Xavier is governed by an independent, lay/religious Board of Trustees on which the Sisters of the Blessed Sacrament have representation. Its president, Dr. Norman C. Francis, himself a Xavier graduate, is a nationally recognized leader in higher education.

Xavier is a national leader in the *field of science education* and enjoys several national rankings among all colleges and universities in the country:

- Xavier ranks first in the nation in numbers of African American students admitted to medical and dental schools each year for the past eight years.
- Xavier ranks first in the nation in the number of African American students earning baccalaureate degrees in two areas- the biological/life sciences and the physical sciences- according to the 2003 edition of the “Top 100 Degree Producers”, published by Black Issues in Higher Education.
- Xavier ranks 14<sup>th</sup> in the nation in awarding undergraduate degrees in chemistry according to an American Chemical Society study of the 630 ACS-approved programs. XU is the only historically black college, the only Louisiana school, and one of only two private universities (Brigham Young is the other) to make the Top 25 list. Among all of the 1,041 schools offering chemistry degrees, Xavier is ranked 20<sup>th</sup>.

- Xavier is ranked 31<sup>st</sup> on the list of “Best Universities-Masters” in the 2003 edition of America’s Best Colleges- the annual college guide published by *U.S. News and World Report*.

### **Research**

The university is academically organized into three schools: the College of Arts and Sciences, the College of Pharmacy, and the Graduate School. Xavier’s research activities are conducted by faculty and staff members in the College of Arts and Sciences and the College of Pharmacy. According to the Annual Report from the Office of Sponsored Programs for the fiscal year period starting July 1, 2002 and ending on June 30, 2003, total funds available for research at Xavier was \$13,099,963. These funds included \$5 million of the largest research grant made to Xavier University to date- \$15 million over the next three years- from the National Institutes of Health. This grant is in the form of an endowment to provide support to increase the research capability of the College of Pharmacy in areas of health disparity research with particular focus on diabetes and to provide increased opportunities for students in research to eventually increase the pool of minority biomedical and behavioral scientists.

### **STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		

### **Laboratories and Other Facilities and Equipment**

None indicated.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Hema Bandaranavake		General Biology	
Dr. Jeanine Burse		General Biology/Evolution	
Dr. Michele Boissiere		Genetics/Embryology	
Dr. Willie Caffey		General Biology/Genetics	
Dr. Mary Carmichael		General Biology/A&P	
Dr. Kevin Delaney		General Biology/Ecology	
Dr. Chris Doumen		Human H&P/ General Biology	
Sr. Grace Mary Flickinger		Embryology	
Dr. Robert Fulginiti		General Biology	

Dr. Barbara Green	Comparative Anatomy
Dr. Linda Green	Parasitology/Microbiology
Dr. Faye Grimsley	Industrial Hygiene
Dr. Jacqueline Hunter	General Biology
Sr. Maureen Hurley	Histology/ Epidemiology
Dr. Shubha Kale-Ireland	Microbiology/Genetics
Dr. P. Jones	General Biology
Dr. Peter Martinat	Ecology/Zoology
Dr. Dana Greene-McDowelle	Microbiology/Immunology
Dr. Tanya McKinney	General Microbiology
Dr. Tracy Mullins	General Biology/A&P
Dr. Syed Muniruzzaman	General Biology/ Microbiology
Dr. Kris Norenberg	A&P/Comparative Anatomy
Dr. Calvin Porter	Evolution
Dr. Harish Ratnayaka	Plant Science
Dr. Joseph Ross	Microbiology
Dr. Royal Saunders	Human A&P/Cell Biology
Dr. Mark Schlueter	Zoology/Genetics
Dr. Todd Stanislav	Botany/Genetics/ Evolution
Dr. Roldan Valverde	ARCH Researcher/A&P
Dr. William Whalen	Microbiology
Dr. Leon Wooten	Genetics

**PROGRAM 2**

Chemistry

**SPECIALTY**

**DEGREE LEVEL**

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Michael Adams	Ph.D.	Inorganic Chemistry	Inorganic and Organometallic Chemistry
Ruquia Ahmed-Schofield	Ph.D.	Organic Chemistry	Organic Synthesis, Photochemical Approach to the Synthesis of Organic Compounds, and Mechanistic Studies of Organic Reactions
Teresa Birdwhistell	Ph.D.	Inorganic Chemistry	Materials Science, Enzyme Modeling
JW Carmichael, Jr.	Ph.D.	Physical Chemistry	Ways to Improve Teaching Effectiveness
Marion Carroll	Ph.D.	Biochemistry	Repetitive DNA Elements, Genomics and Bioinformatics, Prostate Cancer
Etim Eduok	Ph.D.	Inorganic Chemistry	Synthesis of Cytochrome P450 Isozyme Inhibitors.
Heike Geisler	Ph.D.	Physical Chemistry	Surface Science
Vincent Giannamore	Ph.D.	Organic Chemistry	High-Energy Compounds, Effect of High Temperature on Hydrocarbons, Multimedia and Internet Based Teaching Methods for Organic Chemistry
Galina Goloverda	Ph.D.	Physical-Organic Chemistry	Organic and Organometallic Chemistry
Tuajuanda Jordan	Ph.D.	Biochemistry	Protein Structure/Function Relationships and Their Potential Application to the Design of New Therapeutic Agents
R. Bryan Klassen	Ph.D.	Inorganic Chemistry	Organometallics in Organic Synthesis and Catalysis, Enzyme Mechanisms and Enzymatic Catalysis, and Structure-Function Relationships in Membrane Proteins
Kathleen Morgan	Ph.D.	Organic Chemistry	Physical Organic Chemistry, Reaction Mechanisms, Organic Thermochemistry

Sally O'Connor	Ph.D.	Organic Chemistry	Environmental Chemistry
Ieva Politzer	Ph.D.	Physical Organic Chemistry	Organic Synthesis, Cyclodextrin Chemistry, Environmental Chemistry Related to Human Health
Ann Privett	Ph.D.	Inorganic Chemistry	Chemical Education
Warren Ray	Ph.D.	Organic Chemistry	Breast and Ovarian Cancer Research Including Signal Transduction Pathway in Metastatic Processes
Nitsa Rosenzweig	Ph.D.	Biochemistry	
John P. Sevenair	Ph.D.	Organic Chemistry	Ways to Improve Teaching Effectiveness
Cheryl Klein Stevens	Ph.D.	Physical Chemistry	X-ray Structural Studies of Pharmacologically Interesting Compounds
Guangdi Wang	Ph.D.	Analytical Chemistry	Gas Chromatography-Mass Spectrometry of Environmental Pollutants and Drug Metabolites
David E. Wolfgang	Ph.D.	Biochemistry	Enzymology and Tuberculosis Drug Resistance
Jian Zhang	Ph.D.	Molecular and Cell Biology	Synthesis and Characterization of Magnetic and Electronic Materials for Environmental Applications
		Physical and Inorganic Chemistry	
Grace Zoorob	Ph.D.	Analytical Chemistry	Liquid Chromatography for the Analysis of Drug Metabolites and Environmental Samples

### **PROGRAM 3**

Computer Science  
Computer Engineering

### **SPECIALTY**

### **DEGREE LEVEL**

### **Laboratories and Other Facilities and Equipment**

None indicated.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Dongyan Chen			Wireless Communication Networks, Digital

Dr. Letatia Bright  
Ducksworth

Dr. Chanmugalingam  
Easwaran

Dr. Andrea Edwards

Dr. Marguerite S.  
Giguet

Dr. R. Raymond Lang

Dr. Lynda R. Louis

Dr. Jeff Matocha

Dr. James Northern

Communication Systems,  
System Modeling and  
Simulation, Signal Processing  
Information Science and  
Systems, CSCW, Human  
Computer Interaction,  
Database

Speech Recognition; Digital  
Signal, Speech, and Image  
Processing; Pattern  
Recognition; Digital  
Communications;  
Microprocessor-Based  
Systems

Graphics, Robotics, Web  
Design, Algorithms  
Theory of Computing,  
Software Engineering,  
Computer Science Education,

Women in Computing  
Knowledge Representation,  
Narrative Intelligence  
Information Technology  
Outsourcing, Human  
Computer Interaction,  
Information Resource  
Management, Gender  
Inequity in Computing, End  
User Support

Operating Systems,  
Networks, Programming  
Contests

Evolutionary Computing,  
Embedded Systems, Low  
Power Design

**PROGRAM 4**

Physics

**SPECIALTY**

**DEGREE LEVEL**

Dual-Degree

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Murty Akundi			
Dr. Sylke Boyd			
Mr. Carribee Collier			
Mr. Raymond Duplessis			
Dr. Elia Eschenazi			
Mrs. Taviare Hawkins			
Mr. David Johnson			
Ms. Kimberly Kincaid			
Dr. Kathleen V. McCloud			
Mr. Steven Rodrigue			

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Pharmacy		

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Adrienne Allen			
Dr. Augustine Aruna			
Dr. Ann Barbre			
Dr. Robert Barrons			
Dr. Anika Bell			
Dr. Thomas Bishop			
Dr. Robert Blake			
Dr. Levon Bostanian			
Dr. Kevin Byrne			
Dr. Lonald Daughtry			
Dr. Amne El-Rachidi			
Dr. Lanny Foss			
Dr. Conchetta Fulton			
Dr. Marcellus Grace			
Dr. Tien L. Huang			
Dr. Marcus Iszard			
Dr. Dana Jamero			
Dr. Burde Kamath			
Dr. Vimal Kishore			
Dr. Harold Komiskey			
Dr. Patricia Lieveld			

Dr. Eddie McCorvey  
Dr. Tarun Mandal  
Dr. Howard Mielke  
Dr. James Murungi  
Dr. Patience Obih  
Dr. Justina Ogbuokiri  
Dr. Joseph Olubadewo  
Dr. Shashikant Phadtare  
Dr. Yashoda Prammar  
Mr. Randall Schexnayder  
Dr. Marc Welt  
Dr. Thomas Wiese

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Collaborative Research Program with Tulane University

**Funding Level:** **Year:** 3 year grant

**Project Director:**

**Title of Project:** Long-Term Stewardship of the DOE Complex

**Agency:** Collaborative Research Program with Tulane University

**Funding Level:** **Year:** 3 year grant

**Project Director:**

**Title of Project:** Integrated Bioenvironmental Hazards Research Program

**Agency:** National Institutes of Health

**Funding Level:** **Year:**

**Project Director:**

**Title of Project:** Minority Biomedical Research Support Program (MBRS)



**PROGRAM 3****SPECIALTY****DEGREE LEVEL**

Agriculture

Agronomy

Doctorate

**Laboratories and Other Facilities and Equipment**

Geographic Information System (GIST) Laboratory with capabilities for computer-assisted cartography, relational database management, expert systems developments, analysis of remote sensing imagery, and interactive laser video mapping; laboratory equipped with a MICROVAS 3500/GPX network and peripherals.

**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH  
SPECIALTY**

None indicated.

**PROGRAM 4****SPECIALTY****DEGREE LEVEL**

Business Administration

Accounting

Bachelors

**Laboratories and Other Facilities and Equipment**

Accounting Laboratory

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** Air Force Office of Scientific Research  
**Funding Level:** \$20,000 **Year:** 1986  
**Title of Project:** Development of a Laser Spectrometer

**BENNETT COLLEGE**  
**Greensboro, NC 27401**

**Contact: Franklin Jackson**  
**Vice President for Institutional**  
**Advancement Planning and Research**

**Telephone: (601) 877-6118**  
**Fax: (601) 877-2307**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry	Medicinal & MBRS Research	Bachelors

**Laboratories and Other Facilities and Equipment**

Four research laboratories equipped with fume hoods, work benches, water, electrical outlets, etc., for organic synthesis, HPLC and biochemistry experiments; a large green house and animal room; an extensive number of centers for computing, Computer Center with HP Networked Laser Printer 5050N, and Proxima LCD Projector DX2; Audio Learning Laboratory, Scientific instrumentation lab (interfaced Macintosh microcomputers with Vernier Universal Laboratory Interface (ULI), Business Education/Social Science Laboratory, Teacher Education Laboratory with 60 computer work stations. Instruments available in the Department include: a Fourier transform infrared spectrophotometer, programmable gas chromatography unit, ultraviolet-visible light spectrophotometer, HPLC unit, GC/Mass spectrophotometer.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Dr. Susan Curtis	Ph.D.	Chemistry	Membrane Biochemistry, Bio-Remediation of Chemical Waste
Dr. Benita Bell	Ph.D.	Chemistry	Nutritional Biochemistry, Cardiovascular Disease and Osteoporosis
Dr. Lisa Price	Ph.D.	Chemistry	Nutritional Biochemistry

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Biology	Biology Research and Biochemistry	Bachelors

### **Laboratories and Other Facilities and Equipment**

MBRS and MARC programs.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
B.P.C. Rao	Ph.D.	Animal Science	Physiology, Biochemistry, Hypertension Aortic; Carotid Atherosclerosis; Calcium Blocking Agents
Dr. Michele Garrett	Ph.D.	Biology	Arabidopsis, Bioremediation, Ecology, Plant Physiology
Dr. Margaret Curtis	Ph.D.	Biology	Biomedical Research Ethics, Genetics Atherosclerosis
Dr. Jeffrey Goodrum	Ph.D.	Biology	Lipoproteins, Cholesterol, Nerve Regeneration

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Medical Technology	Biomedical Research Biochemistry	Bachelors

### **Laboratories and Other Facilities and Equipment**

MBRS and MARC programs.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
B.P.C. Rao	Ph.D.	Animal Science	Physiology, Biochemistry, Hypertension Aortic; Carotid Atherosclerosis; Calcium Blocking Agents
Dr. Michele Garrett	Ph.D.	Biology	Arabidopsis, Bioremediation, Ecology, Plant Physiology

Dr. Margaret Curtis	Ph.D.	Biology	Biomedical Research Ethics, Genetics, Atherosclerosis
Dr. Jeffrey Goodrum	Ph.D.	Biology	Lipoproteins, Cholesterol, Nerve Regeneration

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

**BETHUNE-COOKMAN COLLEGE**  
**Daytona Beach, FL 30125**

**Contact:**

**Telephone:**

**Fax:**

**INSTITUTIONAL RESEARCH CAPABILITY SUMMARY**

Biomedical Research at Bethune-Cookman College has been a major scientific activity since 1974. Major funding is provided by the National Institutes of Health through the Minority Biomedical Research Support (MBRS) Program of National Institute of General Medical Sciences (NIGMS). The major thrust of the program is to develop the potential of faculty, minority students, and the institution in biomedical research.

A unique feature of the program is its emphasis on undergraduate participation in all aspects of biomedical research, including conceptualization of important research questions, design experiments, review of literature, and collection and analysis of data.

Students receive a stipend while training in the lab. Also, students have an opportunity to present their research findings in national and international scientific meetings and symposia.

Researchers from Bethune-Cookman College have authored more than 80 research articles published in various national and international biomedical journals.

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

**PROGRAM 1**

**SPECIALTY**

**DEGREE LEVEL**

None indicated.

**CENTRAL STATE UNIVERSITY  
Wilberforce, OH**

**Contact: Mr. Morakinyo Cuti**  
**Director of Sponsored**  
**Programs and Research**

**Telephone: (937) 376-6547**  
**Fax: (937) 376-6598**  
**Email: mcuti@csu.edu**

**INSTITUTIONAL RESEARCH CAPABILITY SUMMARY**

Central State University (CSU) is a historically African American university located in Wilberforce, Ohio. The university is steeped in a rich tradition of academic excellence and pride dating back to 1887. Its graduates continue to maintain high professional standards. CSU, as Ohio's only public Historically Black University, academically prepares students with diverse backgrounds and educational needs for leadership and service in an increasingly complex and rapidly changing world. As one of the state-assisted institutions in the state of Ohio, it serves the academic, cultural and vocational needs of students from a wide range of academic preparations and background through instructional programs leading to degrees in arts and sciences, business, education, manufacturing engineering, industrial technology, and water resources management. Enrollment at CSU is approximately 1400 students.

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Manufacturing Engineering Industrial Technology		Bachelors

**Laboratories and Other Facilities and Equipment**

Microcomputer Laboratory - 14 state of the art Compaq PCs running Microsoft Windows 2000 provide adequate microcomputer resources at the present time. Two HP2100 network laser printers and two Epson 980N network inkjet color printers are currently shared on the network and are adequate for the current printing needs.

CIMPAL and CAD/CAM - Excellent equipment is available for CNC machining, and CAD/CAM with the integration of manufacturing processing machines under computer networking and control.

Materials/Processes & Quality Control Laboratory - The tensile, impact and flat specimen fatigue test equipment in this laboratory are approximately ten years old, but remain in good working condition. Excellent resources are also available for photo elastic stress analysis and strain gauge experimentation. Recent upgrades to this laboratory include a Rockwell hardness testing equipment, Enco plate shears, and Enco precision foot shear.

Circuits and Measurement and Control Laboratory - Excellent instrumentation is

available for this laboratory in sufficient numbers for current and anticipated student enrollment. Available equipment ranges from sophisticated to normal measurement and test equipment.

Microprocessor Laboratory - Excellent analysis, development, and instrumentation equipment are available. Four Intel 8086 design kits are currently available for hands-on student workstations. Recent additions to the laboratory include four Allen-Bradley MicroLogic 1000 logic controllers with associated development software.

Robotics Laboratory - The robotics laboratory is used for the support of the Manufacturing Engineering Department course work, student projects, and departmental research. It also provides an excellent motivational and learning resource for high school, junior high school, and elementary school students during the young scholars summer program at Central State University.

CAD Laboratory - The CAD laboratory is a shared laboratory between the Manufacturing Engineering and Industrial Technology departments where students learn about drafting and the use of AutoCAD for computer aided design. The laboratory is equipped with 20 IBM compatible 66 MHz computers with all the necessary software and input/output devices.

Microgravity Laboratory - This laboratory was developed under a NASA grant sponsored by the Space Experiments Division of NASA Lewis Research Center, Cleveland, Ohio. The project focused on ground-based 1-g and low-g experiments for investigation of evaporating binary fluids.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
William Grissom	Ph.D., PE	Mechanical Engineering	Robotics, Expert Systems, Automated Materials Testing, Braided Composites
Mahmoud A. Abdallah	Ph.D., PE	Systems Engineering Electrical and Computer Engineering	Image Processing, Machine Vision, Robotic Controllers, Neural Networks, Artificial Intelligence Applications to Electronic Fault Isolation and Diagnosis, Intelligent Interfaces Developed the "Eigenimage" Image Processing Technique
Abayomi J. Ajayi-Majebi	Ph.D., PE	Civil Engineering	Simulation, Analysis and Control of Traffic Flow

Morris M. Girgis	Ph.D., PE	Mechanical Engineering	Heat Transfer, Experimental Thermo-Dynamics, and Advanced Numerical Techniques as Applied to Nuclear Reactors
Augustus Morris, Jr.	Ph.D., PE	Biomedical Sciences	Design and Control of Tele-Operated Robotic Manipulators, Robot Vision, Route Planning and Collision Avoidance for Robots, and the Application of Neural Networks
John H. Sassen	M.A., B.S.	Industrial Education	

**CHENEY UNIVERSITY**  
Cheyney, PA 19319

*Data from 1996*

**Contact: Dr. Francine E. Jefferson**  
**Director of Sponsored Research**

**Telephone: (610) 399-2186**  
**Fax: (610) 399-2210**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Life Sciences	Premedical	Bachelors

**Laboratories and Other Facilities and Equipment**

Two general and four advanced Biology laboratories, computer laboratories, shielded radiation laboratories, balance room, two dark rooms, animal room, greenhouse, instrumentation room, TV monitor system electron microscope room, electron microscope prep room and three (3) research labs.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Russell Peterson	Ph.D.	Zoology	Development of Immune Systems in Chordates
John Robinson	M.Ed.	Zoology/Bacteriology	Science Education , Microbial Nutrition
Thomas Anderson	M.Ed.	Botany	Plant Anatomy
Maryanne Fritz	Ph.D.	Microbiology	Endotoxin-Induced Abortion in Mice
Eugene Jones	Ph.D.	Zoology	Sickle Cell Anemia, Early Cancer Detection, Hypertension
Florence Lewis	Ph.D.	Molecular Biology	Carcinogenesis of Mitochondria Biogen
Robert Maris	Ph.D.	Marine Biology	Marine Zooplankton- Ecology Systematic; Vertical Distribution, dispersal-Recruitment

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business Administration	Economics Finance Management	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer laboratories with microcomputers and full array of financial, business, statistical and research software packages.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Monayem Chowdhury	Ph.D.	Economics	International Finance Development
Rajkumar Guttha	M.S.	Finance/Economics	International Finance and Investment
Jesse Williams	M.S./M.B.A.	Operations Research	Microcomputer Model to Solve the Warehouse Layout Problem for the Air Force

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer Science	Microcomputer Models	Bachelors

**Laboratories and Other Facilities and Equipment**

Two microcomputer laboratories consisting of IBM P/2 Model 30's, IBM PC's, a Zenith Z-248 for use on an Air Force research project, additional IBM PS/2 Model 25's and IBM PS/2 Model 80's.

**Researcher: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Edward Williams	Ph.D.	Organizational	Organization, Civil Rights; Development Organizational Theory and Design
Henry Hardy	Ed.D.		Academic Performance of Students in Math and Computer Science

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Engineering	Mechanical & Electrical Engineering Technology	Associate

**Laboratories and Other Facilities and Equipment**

Testing Lab, Electronics Lab, Machine Lab, and Materials Lab.

**Researcher: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
None indicated.			

<u>PROGRAM 5</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Telecommunications	Cable TV	Bachelors

**Laboratories and Other Facilities and Equipment**

Interface with Cable TV communication: simulated system with capability of 14 channels.

**Researcher: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Clyde Mason	B.S.	Electrical Engineering/MBA	Telecommunication Computerized Finance Management Information System; Cable TV System Installation; Computerized Traffic Signal Installation

<u>PROGRAM 6</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Satellite	Communications	Bachelors

**Laboratories and Other Facilities and Equipment**

Ability to downlink from the satellite; will have ability to uplink in the future.

**Researcher: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 7**

**SPECIALTY**

**DEGREE LEVEL**

Industrial Technology

Bachelors

**Laboratories and Other Facilities and Equipment**

Full management type activities such as professional development, computer assisted presentation, large screen projection, and satellite down linking for national and international programs.

**Researcher: Academic Background & Research Specialty(ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

Ralph J. Patrick

Ed.D.

Vocational/Tech.  
Education

Industrial Safety,  
Performance Evaluation,  
Interactive Computing;  
Factors Related to  
Occupational Preference of  
Selected Vocational  
Education Students

Mario Todaro

M.Ed.

Mentally  
Handicapped

Arts Related to the  
Mentally Handicapped  
Children with Special  
Needs

**Recent DoD/Other Contracts/Grants/Procurement Experiences**

**Agency:**

Air Force Office of Scientific Research (University  
Energy Systems)

**Funding Level:**

\$17,000

**Year:** Ongoing

**Project Director:**

Dr. Jesse Williams

**Title of Project:**

The Warehouse Layout Problem

**CLAFLIN COLLEGE**  
**Orangeburg, SC 29115**

**Contact: Dr. Rebecca Bullard-Dillard**  
**Director, Office of Research**  
**Development**

**Telephone: (803) 535-5243**  
**Fax: (803) 535-5776**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Biotechnology	Bachelors
	Bioinformatics	Bachelors
	Environmental Science	Bachelors

**Laboratories and Other Facilities and Equipment**

Biosafety level Cell Culture/Tissue Culture Laboratory: Approximately 150 ft. Equipped with 3 single laminar flow hoods, 3 Co2 incubators and, cryogenic storage, an inverted microscope and a multirotor tabletop centrifuge. In an adjacent space, a new autoclave with clean steam is available for use.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Florence Anoruo	M.A.T., A.B.D.	Environmental Biology	Pytoremediation, Plant Hormones, Stress Responses in Plants
Omar Bagasra	M.D., Ph.D.	Infectious Diseases Molecular Biology	Cancer Research, HIV Vaccine Development Bioterrorism Immunology Inventor of the In-Situ PCR Technique, Director, SC Center for Biotechnology
Rebecca Bullard- Dillard	Ph.D.	Biochemistry	Autoimmunity (Lupus) Molecular Biology, Bioinformatics
Jianguo Chen	Ph.D.	Biophysics	Methods development for Micro satellite analysis and Sequencing. Director of Geno-Typing and Sequencing Lab

Gemma Geslani	M.Ph., Ph.D.	Biochemistry	Health Disparities, Nutrition
William Thomas	M.S.	Chemistry	Protein Purification, Glycoprotein

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Biochemistry Chemistry	Bachelors Bachelors

### **Laboratories and Other Facilities and Equipment**

Analytical Lab: This space is equipped with a balance room, a student computer room, a water still, 4 UV-VIS spectrophotometers, several more visible spectrophotometers, a Shimadzu UV-240IPC spectrophotometer with a Peltier temperature controlled cell holder, and a refrigerated equipment cabinet..

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Sabrina Collins	Ph.D.	Chemistry (inorganic)	Coordination Polymers, Medicinal Plants & Herbs, Inorganic Photo-Chemistry, Organometallics
Uruthira Kalapathy	Ph.D.	Chemistry (Analytical)	Analysis of Foods and Nutrients, Analytical methods Development
Hossein Nanaie	Ph.D.	Chemistry (Physical)	Design and Develop Dendrimer- Encapsulated Nanoparticles of Transition metals, Sol-gel Derived NonComposites for In- Situ Mapping of Organic Contaminants in Waste and Ground Water
Anthony Rizutti	Ph.D.	Environmental Science	Bioremediation, Removal of Organic Contaminants in Farming Effluents
S.S. Sandhu	Ph.D.	Chemistry	Kinetics of Pollutants, Degradation, Modeling of Pollutants, Mobility/ Degradation, Waste Characterization/Management, Analytical Methodology Development
Angela Williams	Ph.D.	Chemistry (Biochem)	Structural and Functional

Analysis of Human and E. Coli  
Thymidylate Syntheses,  
Cancer Research

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics & Computer Science	Computer Science Computer Engineering Engineering	Bachelors Bachelors (3+2) Dual Degree at The B.S. Level with Clemson University

**Laboratories and Other Facilities and Equipment**

A UNIX Computer Center and a computer lab with internet access not connected to the university system to allow for networking research.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Sylvester N. Ekpenu	Ph.D.	Physics	Energy Bands in Solids, Semiconductor Alloys, Chemisorptions
Kuhanandha Mahalingam	Ph.D.	Computer Science	Information Technology, Design and Implementation of Information Sources Such as Databases, Development of Software Applications
Zsolt Lengvarszky	Ph.D.	Mathematics	Pure Math Such as Lattices and Weak Independence. Also Works on Software Development for the Internet

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** Department of Defense  
**Funding Level:** \$204,000/Year **Year:** 4/02-3/05  
**Project Manager:** O. Bagasra  
**Title of Project:** Role of zinc in the pathogenesis of prostate cancer

**Agency:** NIH/NCI  
**Funding Level:** \$390,476 **Year:** 7/03-6/06  
**Project Manager:** Omar Bagasra  
**Title of Project:** Training of Claflin Minorities at USC Cancer Center

**Agency:** SC EPSCoR Program & SC BRIN Collaborative Research Program  
**Funding Level:** \$75,000 **Year:** 06/02-05/03  
**Project Manager:** Omar Bagasra  
**Title of Project:** Use of in situ PCR in Determination of the Molecular Pathogenesis of HPV

**Agency:** BRIN Supplemental: NIH Supported Special Program  
**Funding Level:** \$300,000 for two years **Year:**  
**Project Manager:** Omar Bagasra  
**Title of Project:** Establishment of a DNA genotyping & sequencing laboratory at Claflin University

**Agency:** NIH/NIAID  
**Funding Level:** \$60,961 **Year:**  
**Project Manager:** Omar Bagasra  
**Title of Project:** Kaposi's Sarcoma in Africa

**Agency:** NIH  
**Funding Level:** \$110,000 **Year:** 8/00-5/03  
**Project Manager:** Omar Bagasra  
**Title of Project:** EARDA

**Agency:** NIH  
**Funding Level:** \$75,000 **Year:** 6/03-12/04  
**Project Manager:** Dr. Bullard-Dillard  
**Title of Project:** Development of a Core Research Group

**Agency:** USDA  
**Funding Level:** \$200,000 **Year:** 2001-2003  
**Project Manager:** Florence Anoruo Co-PI  
**Title of Project:** Environmental Sciences Through Experimental Learning

**Agency:** NOAA  
**Funding Level:** \$250,000 **Year:** 2001-2004  
**Project Manager:** Florence Anoruo  
**Title of Project:** Regional Studies in Sustainable Management of Coastal and Marine Habitats for Decision Making

**Agency:** NSF HBCU-UP Sub-Award  
**Funding Level:** \$4,600 **Year:** 2002-2003  
**Project Manager:** Howard Hill  
**Title of Project:** Role of microsymbiont in revegetation of a post-perturbation mine site

DELAWARE STATE UNIVERSITY  
Dover, DE 19901

*Data from 1996*

Contact: Mildred Ofosu  
Associate Dean of Research  
Director of Sponsored Programs

Telephone: (302) 739-4188  
Fax: (302) 739-4294

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Biology	Cell Biology Areas	Masters

**Laboratories and Other Facilities and Equipment**

Three research laboratories are supported by MBRs grant funds through NIH. These include cell ultra structure, lipid biochemistry, and immunology.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Gustav Ofosu	Ph.D.	Cytochemistry & Cell Biology	Platinum Compounds and Cancer Cells
Fatma Helmy	Ph.D.	Histochemistry	Comparative Lipid Biochemistry
Midred Ofosu	Ph.D.	Microbiology/Immunogenetics	Disease Associations with Human Leukocyte Antigens (HLA)
Stan Ivey	Ph.D.	Molecular Biology	Proteins, Ion Channels
Robert McBride	Ph.D.	Developmental Biology	Vertebrate Embryonic Development

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry	Applied Chemistry	Masters, Bachelors

**Laboratories and Other Facilities and Equipment**

The Chemistry Department has four laboratories for instruction; namely analytical chemistry, inorganic chemistry, organic chemistry and physical chemistry that are 24' x

40' in size and equipped with modern facilities. In addition, the physical facilities include a 24' x 30' Student Research Laboratory, a 12' x 24' Instrumentation Room, a 10' x 11' Mass Spectrometry Room, an 8' x 24' Toxicology Laboratory and a 14' x 16' Water Chemistry Laboratory. Other physical facilities in the department are five Faculty Office Research Laboratories, Dispensing Room and the Departmental Secretary's Office, equipped with duplicating machines. Facilities available for use by the department are a Science Library Reading Room, Radiation Laboratory, Dark Room, and Machine Shop. All of these facilities are air conditioned.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
H. Preston Hayward	Ph.D.	Physical Chemistry	Infrared Spectroscopic Analysis
Ronald C. Machen	Ph.D.	Analytical/Environmental	Organic Emissions From Environmental Evaporative Casting Trace Levels of Nitrosamines in Air; Reaction of Atomic Hydrogen, Dimethyl Ether & Dimethyl Sulfide; Basicity of Tri/Tetramet-aphosphate, Stability Complexes with Cu(II) by Means of pH and Amalgam Electrodes
Jimmie Smith	Ph.D.	Inorganic Chemistry	Heteropolymetalate Anions as Anti Cancer Agents; Synthesis; Characterization; Therapeutic Effects of New Types of Heteropolytungstate; Molybdate Anions (MBRSP)
Donald R. Wilkinson	Ph.D.	Analytical/Environmental & Forensic Chemistry	Cystic Fibrosis Patients (MBRSP); Environmental Health Study of Lead in Teeth (USEPA)

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Agriculture	Water Quality Forage Quality Biodiversity Natural Resources Management Environmental Sciences	Bachelors

### **Laboratories and Other Facilities and Equipment**

A research facility with modern laboratories and equipment including Fibertec forage quality analyses equipment, a gas chromatograph, aquaculture aquarium, digestion hood, seed germinator, weather station, water quality analysis lab, and wind movement equipment.

Aquaculture research ponds. A seventy-nine acre forage-beef farm. A herd of fifty Registered Polled Black Angus cattle. A herd of twenty Yorkshire hogs and facilities. Fifty acres of agricultural production land. The Claude E. Phillips Herbarium.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Edward R. Jones	Ph.D.	Plant and Science	Cool and Warm Season Forage
Arthur Tucker	Ph.D.	Plant Taxonomy	Oil Crops and Herbs as Cash Crops
Norman Dill	Ph.D.	Botany/Plant Ecology	Agricultural Ecosystems; Noise Attenuation by Plants, Barriers, Land Forms; Biological Control of Gypsy Moth; Urban Forestry; Freshwater Wetlands; Environmental Education
Randel A. Peiffer	Ph.D.	Crop Physiology Forage Management	Seed Technology Revegetation of Disturbed Land and Agricultural Practices; Water Quality Relationships
Cyril E. Broderick	Ph.D.	Physiology/Biotechnology	Horticulture Crops: Special Crops Producing Isoprene and Other Terpenoid Biomolecules of Economic Interest

Kenneth W. Bell	Ph.D.	Plant/Soil Science	Forage Ecology; Animal Utilization; Forage Quality Management
Charles R. Weirich	Ph.D.	Animal Psychology	Wildlife and Fisheries Science

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics		Masters

**Laboratories and Other Facilities and Equipment**

Laboratories equipped with modern advanced technology and a physics computer facility to collect, analyze and plot data.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Eshan M. Helmy	Ph.D.	Atomic/Nuclear Physics	Atomic Nuclear and Molecular Interactions; Properties of Negative Ions
Arthur E. Purdy	Ph.D.	Solid State Physics	Effects of Radiation of Solids
Patrick F. Gleeson	Ph.D.	Low Temp Physics	Specific Heat of Metal Alloys and Glassy Metals
Gabriel D. Gwanmesia	Ph.D.	Geophysics	Elasticity of High Pressure Phases of Mantle Materials; Composition of Earth's Mantle

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Psychology	General/Graduate	Bachelors

**Laboratories and Other Facilities and Equipment**

Student laboratory space which can be configured for general laboratory work in psychology; MBRS (NIH) stress research laboratory equipped to investigate a wide range of biomedical areas related to the psychophysiology of human stress. These laboratories will support research in the areas of human perception and learning; cognitive and psychosocial processes; and human psychophysiology.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James P. Kurtz	Ph.D.	Social Psychology	Clinical; Organizational and Industrial; Developmental; Social
Warren A. Rhodes	Ph.D.	Clinical Psychology	Clinical Child; Psychology of Corrections; Counseling Corrections; Developmental
Albert B. Miller	Ph.D.	Experimental Psychology	Learning; Perception; Psychophysiology-Biofeedback; Psychometrics
Jane L. Buck	Ph.D.	Behavioral Sciences	Statistics and Research Methodology; Education of Gifted Children; Psychology of Women; Psychology of Aging; Motivation

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Aircraft System Management	Pilot Trainage	Bachelors

**Laboratories and Other Facilities and Equipment**

Four (4) Piper Warriors (PA 28-151) Aircraft; One (1) Piper Arrow (PA 28-200R) Aircraft; Delaware Airport (Airport Near Dover); One (1) Piper Senneca (PA 34-200) Twin Engine Aircraft.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Pamela McDermott	Ed.D.	Education Pilot Training	Aviation Management
Daniel E. Coons	Ed.S., Ed.D.	Education Pilot Training	Curriculum Development; Curriculum for Academic Pilot and Aviation Management
James E. Peel	M.S.	Engineering	Aviation Flight Training, Flight Engineering

<u>PROGRAM 7</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Airway Science Management	Airport Management	Bachelors

**Laboratories and Other Facilities and Equipment**

Four (4) Piper Warriors (PA 28-151) Aircraft; One (1) Piper Arrow (PA 28-200R) Aircraft; Delaware Airport (Airport Near Dover); One (1) Piper Seneca (PA 34-200) Twin Engine Aircraft.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
-------------	---------------	-------------------	---------------------------

Same as Program 6

<u>PROGRAM 8</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Social Work		Bachelors Masters

**Laboratories and Other Facilities and Equipment**

In process of development; funded through Title III Grants. Funds for facility appropriated through College.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Samuel Indelicato	M.S.W.	Social Work	Learning Skills Laboratory; Interviewing and Intervention Roles Laboratory
Earle McNeil	M.S.W.	Social Work/Psychology	Dysfunctional Families, Chemical Abuse
David Siegel	D.S.W.	Social Work	Industrial Social Work Groups
Kulbhushan Suri	Ph.D.	Social Work	Educational Attainment, Modernization
Dolores Finger Wright	D.S.W.	Social Work	Women; Stress; Job Satisfaction

Adelle D. Indelicato M.A.

Social Work

Federal Division of  
Aging/Health & Human  
Services, Minority  
Management Traineeship in  
Aging

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

**DILLARD UNIVERSITY**  
New Orleans, LA 70122

**Contact: Dr. Wynetta Lee**  
**Assistant Provost**  
**Institutional Effectiveness & Research**

**Telephone: (504) 816-4662**

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Duane E. Johnson	Ph.D.	Pharmacology	Experimental Therapeutics Drug Development of Anticancer Agents Against Various Breast and Prostate Cancers
Rhonda J. Kuykindoll	Ph.D.	Medical Microbiology	Characterization of Antigen Deficient Strains of Streptococcus Mutants that Expresses Surface Protein Antigen A of Streptococcus Sobrinus
John Clifford Obih	Ph.D.	Endocrinology	The Effect of Chemical Induced Diabetes Mellitus on Reproduction in the Albino Rat
Jose Ramirez- Domenech	Ph.D.	Botany/Environmental Science	Histological Studies on Floral Development, Ethno pharmacological Properties of Legume Plants, Floral Anatomy and Morphology of Lythrium Salicarium
Sherman A. Ward	Ph.D.	Neurobiology and Physiology	HIV/AIDS: Overcoming Limitations of Drug Deliver to Brain in Aids by Convection Enhanced Delivery of AZT

**PROGRAM 2**

Chemistry

**SPECIALTY**

**DEGREE LEVEL**

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Lovell E. Agwaramgbo	Ph.D.	Organic Chemistry	The influence of silicon in the Region and Stereo-Chemistry Implicated in the Inter and Intra-Molecular Ring-Opening Reactions of Epoxysilanes
Clyde E. Smith	Ph.D.	Physical Chemistry	The Absorption and Fluorescence Spectra of Matrix-Isolated CF <sup>2</sup>
Reginald O. Stanton	Ph.D.	Biochemistry/Genetics	Nucleotide Sequencing and Purification of Nucleic Acids Using HPLC

**PROGRAM 3**

**SPECIALTY**

**DEGREE LEVEL**

Computer Science

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Syed Adeel Ahmed	M.S., PhD.	Candidate Computer Engineering	The Use of Virtual Systems for Design Manufacturing and Training in Shipbuilding, Automotive and Aerospace Industries
Justin (Zujia) Xu	Ph.D.	Computer Engineering	The Use of Bio-Informatics in Gene Sequencing Analyses

**PROGRAM 4**

**SPECIALTY**

**DEGREE LEVEL**

Mathematics

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Hadi Y. Alkahby	Ph.D.	Mathematics	Mathematics Modeling in Atmospheric Waves and Magneto-Hydrodynamics
Hong Dai	Ph.D.	Mathematics/Actuarial Science	The Development of Theorems and Methods Used to Compute Disability Income in Industry
Terrence A. Edwards	Ph.D.	Mathematics	General Topology: Function Spaces with the Compact-Open-Topology
Peter Frempong-Mireku	Ph.D.	Mathematics	Symbolic Solution and Micro canonical Simulation of the Potts Model

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics		

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Abdalla Darwish	Ph.D.	Physics	Material Science: Optics and Lasers
Kerwin C. Foster	Ph.D.	Physics and Physical Chemistry	Investigation of Theoretical Condensed Matter Physics and the Quantum Hall Effect
Roberto B. Salgado	Ph.D.	Physics	Medical Imaging: Cone-Beam Scintimammography and Breast Cancer Detection

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated

FAYETTEVILLE STATE UNIVERSITY  
Fayetteville, NC 28301-4298

*Data from 1996*

Contact: Mrs. Beverly J. Warren  
Director of Sponsored Programs

Telephone: (910) 486-1498

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Biology	Pre-Med Tract Pre-Pharmacy Pre-Nursing	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

The Department of Natural Sciences is located in a multimillion dollar science complex that has a number of laboratories to serve undergraduate and graduate courses in all the areas in which the respective degrees are offered. In addition, other auxiliary facilities such as Greenhouse, Botanical Preserve, Planetarium and Observatory are also available. Several individual research laboratories are also present for faculty participating in sponsored and unsponsored research.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry		Bachelors

**Laboratories and Other Facilities and Equipment**

Same as above.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Robert Higgins	Ph.D.	Chemistry	Synthesis of Organic Compounds

Maya Ganguli	Ph.D.	Chemistry	Synthesis of Organic Compounds
James Williams	Ph.D.		Superconductors
Matthew Edwards	Ph.D.		Laser Use in Analyzing Atmospheric Pollutants

<b><u>PROGRAM 3</u></b>		<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Medical Technology Nursing		Non-Teaching RN-BSN Completion	Bachelors

**Laboratories and Other Facilities and Equipment**

Same as above.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Floyd Waddle	Ph.D.	Genetics	Research in Drosophila
Valeria P. Fleming	Ph.D.	Embryology	Experimental Embryology
Juliette Bell	Ph.D.	Molecular Biology	Proteins and Enzymes
Pinapaka Murthy	Ph.D.	Physiology	Atherosclerosis; Hypertension

<b><u>PROGRAM 4</u></b>		<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Geography			Bachelors

**Laboratories and Other Facilities and Equipment**

Same as above.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
David Haas	Ph.D.	Botany	Plant Development
Jarvis Hudson	Ph.D.	Ecology	Factors Affecting Survival of Plants
Joseph Knuckles	Ph.D.	Parasitology	Parasites of Fish

**PROGRAM 5****SPECIALTY****DEGREE LEVEL**

English

Bachelors

**Laboratories and Other Facilities and Equipment**

The Writing Center serves as a support unit, not only for students who enroll in the English Composition courses, but also for students across the curriculum, as well as faculty and staff. The Reading Laboratory serves a similar purpose by providing support services to students already enrolled in English composition. This Lab, which is attached to the English course, is designed to improve retention and graduation rates. The categories emphasized follows: vocabulary, comprehension, reading, rate and study skill.

**PROGRAM 6****SPECIALTY****DEGREE LEVEL**

Criminal Justice

Bachelors

**Laboratories and Other Facilities and Equipment**

Faculty with strong research capabilities.

**PROGRAM 7****SPECIALTY****DEGREE LEVEL**

Political Science

Public Administration  
Constitutional Law  
International Politics  
Comparative Politics  
Environmental StudiesBachelors  
Masters**Laboratories and Other Facilities and Equipment**

Faculty with strong research capabilities. Computer facilities for data collection, processing, and statistical analysis

**PROGRAM 8****SPECIALTY****DEGREE LEVEL**

Psychology

Counseling Psychology  
Experimental Psychology  
Developmental Psychology  
Social PsychologyBachelors  
Masters**Laboratories and Other Facilities and Equipment**

Same as above.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Doreen Hilton	Ph.D.	Psychology	Counseling Psychology
Lillian Williams	Ph.D.	Psychology	Counseling and Developmental Psychology
Thomas E. VanCantfort	Ph.D.	Psychology	Experimental Psychology; Research Methods; Statistics; Physiological Psychology

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** NASA Teacher Training Pre-Service Program  
**Funding Level:** \$82,850 **Year:** 1992-1994  
**Project Director:** Dr. Leo Edwards  
**Title of Project:** Teaching Integrated Math/Science (TIMS)

**Agency:** NASA University Joint Venture Space Science Program  
**Funding Level:** \$24,000 **Year:** 1992-1994  
**Project Director:** Dr. Ronald Johnson  
**Title of Project:** NASA University Joint Venture Space Science Program

**FISK UNIVERSITY**  
**Nashville, TN 37208-3051**

**Contact: Dr. John Springer**  
**Office of Institutional Research**

**Telephone: (615) 329-8805**  
**Fax: (615) 329-8722**  
**Email: jspringe@fisk.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		Masters Bachelors

**Laboratories and Other Facilities and Equipment**

The University has a 2,400 sq. ft. biology research facility. In addition, space is available to researchers in the newly renovated Chemistry Building. Equipment: Regular incubators, CO<sup>2</sup> incubators, walk-in room, Revco ultra freezer, Spectrophotometers (U-V visible, , Perkin Elmer, Lambda 5, Beckman Model 25, Hitachi U-2000), Preparative centrifuges, gel electrophoresis apparatuses (vertical, horizontal and 2-D), inverted microscope with camera attachment, fluorescent microscope, fraction collectors, UV illuminators, Polaroid camera, polytron homogenizer, gas liquid chromatograph DNA sequencer (Bio-Rad) New Brunswick fermentor, plant growth chambers, orbital shakers, freeze dryers, microfuges, ultracentrifuge (Beckman-LM8), refrigerators, freezers, Laminar hoods, balances, autoclave, ice machine, flash evaporators (Buchi), isoelectric focusing unit, ELISA reader, automatic micro titer washer, fume hoods, safety cabinets, gel dryer, liquid scintillation counter (Beckman), high pressure liquid chromatograph FPLC (Pharmacia), Ultra Sonicator, French Press, VacuGene blotting system (LKB).

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Phyllis Freeman-Junior	Ph.D.	Biology	PCB's on Chick Embryos Development
M. Gunasekaran	Ph.D.	Biology	Role of glutathione in Dimorphism of Candida Albicans
Justice Ike	Ph.D.	Biology	Serotonin Receptos in Phenylketonic Rats
M. Welch	Ph.D.	Biology	Amino guanidine in Chick Embryos Glycophorins on Development

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry		Masters Bachelors

**Laboratories and Other Facilities and Equipment**

The University recently renovated the chemistry building. The renovated facilities include new and greatly improved fume hoods, renovated lab benches, improved lighting, new and extensive labs for student use. Laboratory facilities are available for various surface chemistry and physics experimental techniques, as well as computational chemistry.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Princilla S. Evans	Ph.D.	Chemistry	Interferons and Other Cytokines on Normal and Keloid Fibroblasts
Lawrence Pratt	Ph.D.	Chemistry	Computational Chemistry
R. Wingfield	Ph.D.	Chemistry	Waste Degradation-Organic Chemistry

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Physics		Bachelors, Masters

**Laboratories and Other Facilities and Equipment**

Fully equipped laboratories for faculty research purpose. Includes an extensive collection of modern equipment for surface studies. Home of the NASA/Fisk University Center for Photonic Materials and Devices. Funding, collaboration and support from Marshall Space Flight Center, Sandia National Labs, Oak Ridge National and several other Universities.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Arnold Burger	Ph.D.	Physics Materials Science & Applications	Crystal Growth, Multispectral Detectors

Eugene Collins	Ph.D.	Physics, Surface Science	Surface Physics
Yunlong Cui	Ph.D.	Physics	Semiconductor Crystals and Films
Minsheng Guo	Ph.D.	Physics	Photonic Materials and Devices
Don Henderson	Ph.D.	Chemical Physics	Nonlinear Susceptibility; Quantum Dots; Nanophase Materials, Optical Materials Nucleation of Growth
Rixiang Mu	Ph.D.	Physics	Thermodynamics of Confined Media
E. Silberman	Ph.D.	Physics	Infrared Spectroscopy
A. Ueda	Ph.D.	Physics	Chemical Physics, Nonophase Materials
Roy Utpal	Ph.D.	Physics	Semiconductor Crystals and Films
Marvin Wu	Ph.D.	Physics	Nanophase Materials
Andrew Zavalin	Ph.D.	Physics	Nanophase Materials

**PROGRAM 4**

**SPECIALTY**

**DEGREE LEVEL**

Computer Science

Bachelors

**Laboratories and Other Facilities and Equipment**

Sun, Linux x86 workstation

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
N. Horace Mann	Ph.D.	Computer Science	Information System Using the Client Server Model; Data Modeling; Medical Informatics
Stephen Egariyewe	Ph.D.	Physics/Computer Science	Educational Technology

## **Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Air Force Office of Scientific Research (AFOSR)  
**Funding Level:** \$77,500.00 **Year:** 2003-2004  
**Project Director:** Dr. Arnold Burger  
**Title of Project:** DURIP-03 Acquisition of An Electro-Dynamic Gradient System for Semiconductor Crystal Growth

**Agency:** Oak National Laboratory  
**Funding Level:** \$49,000.00 **Year:** 2003-2004  
**Project Director:** Dr. Arnold Burger  
**Title of Project:** Study Growth of Crystals

**Agency:** Los Alamos National Laboratory  
**Funding Level:** \$40,000.00 **Year:** 2003-2004  
**Project Director:** Dr. Arnold Burger  
**Title of Project:** Characterization of CdZnTe Devices

**Agency:** National Institute of Health  
**Funding Level:** \$374,738.00 **Year:** 2003-2004  
**Project Director:** Dr. Eugene Collins  
**Title of Project:** BRS

**Agency:** ASA  
**Funding Level:** \$622,400.00 **Year:** 2003-2005  
**Project Director:** Dr. W. Eugene Collins  
**Title of Project:** Center for Photonic Materials & Devices (CPMD)

**Agency:** NSF  
**Funding Level:** \$75,000.00 **Year:** 2003-2004  
**Project Director:** Dr. W. Eugene Collins  
**Title of Project:** REU Summer Research Undergraduate Training in Materials Characterization

**Agency:** Virginia Union Office of Scientific Research (AFOSR)  
**Funding Level:** \$50,035.40 **Year:** 2002-2006  
**Project Director:** Dr. W. Eugene Collins  
**Title of Project:** Mid Eastern Alliance for Minority Participation (MEAMP)

**Agency:** UC-Davis  
**Funding Level:** \$33,207.00 **Year:** 2003-2004  
**Project Director:** Dr. Arnold Burger  
**Title of Project:** CBSST

**Agency:** Air Force Office of Scientific  
**Funding Level:** \$130,000.00 **Year:** 2003-2004  
**Project Director:** Dr. W. Eugene Collins  
**Title of Project:** AFOSR

**Agency:** Subcontract with North Carolina Central University  
**Funding Level:** \$100,000.00 **Year:** 2003-2004  
**Project Director:** Dr. Richard Mu  
**Title of Project:** Integration of Nanotechnology & Computational Modeling

**Agency:** NSF  
**Funding Level:** \$79,113.00 **Year:** 2003-2004  
**Project Director:** Dr. Arnold Burger  
**Title of Project:** Crystal Growth & Energy Transfer in Cr<sup>2+</sup>:CdSe & Cr<sup>2+</sup>:CdSSe Systems

**FORT VALLEY STATE UNIVERSITY**  
**Fort Valley, GA 31030**

**Contact: Dr. Dorothy L.M. Crumbly Telephone: (912) 825-6474**  
**Associate Vice President for Fax: (912) 825-6461**  
**University Advancement Email: crumblyd@mail.fvsu.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Pre-Med	Bachelors

**Laboratories and Other Facilities and Equipment**

Zoology Lab which prepares students for medical school. Program sends more students of African descent to Med-school at Medical College of Georgia than any other college in the system.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Clinton Dixon	Ph.D.	Biology	Cell Culture: Cyber Genetics; Determination of Mutagene-Tic and Environmental Food Compounds

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics	Electrical Engineering	Bachelors

**Laboratories and Other Facilities and Equipment**

In process of developing labs for these two newly approved dual degree programs with University of Nevada of Las Vegas and University of Oklahoma. These programs have extensive corporate and governmental funding.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Xingli Otero-Garcia	Ph.D.	Engineering	Computer Architecture; Hardware and Software Power Electronics
Alvina Atkinson	Ph.D.	Mathematics	Difference Equations

**PROGRAM 3****SPECIALTY****DEGREE LEVEL**

Computer Science

Bachelors

**Laboratories and Other Facilities and Equipment**

Classrooms and Laboratories in Computer Science

**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH  
SPECIALTY**

Alvina Atkinson

Ph.D.

Mathematics

Difference Equation

**PROGRAM 4****SPECIALTY****DEGREE LEVEL**

Mass Communications

Bachelors

**Laboratories and Other Facilities and Equipment**

Building with accompanying laboratories in Mass Communications

**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH SPECIALTY**

Lloyd D. Archer

PDF

Instructional  
TechnologyMass Communications/  
Photography**PROGRAM 5****SPECIALTY****DEGREE LEVEL**

Agriculture

Electronics Engineering  
Veterinary Technology  
Agricultural Education

Bachelors

**Laboratories and Other Facilities and Equipment**Veterinary Technology Laboratory, Agriculture Education and Research Laboratory,  
Electronic Engineering Technology Laboratory, Laboratories in Electronic Engineering**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH SPECIALTY**

Kashmiri Arora

Ph.D.

Veterinary Science

Cattle Infertility, Veterinary  
Large Animals/Goats

## Recent DoD/Other Contract/Grant/Procurement Experiences

**Agency:** U.S. Department of Energy  
**Funding Level:** \$250,000 **Year:** 1990-1993  
**Project Manager:** Isaac J. Crumbly  
**Title of Project:** Grant-Cooperative Developmental Energy Program

**Agency:** National Science Foundation  
**Funding Level:** \$30,000 **Year:** 1990-1993  
**Project Manager:** Isaac J. Crumbly and Jeff Kimbhel  
**Title of Project:** Grant-Cooperative Developmental Energy Program

**Agency:** Cooperative Development Energy Program (CDEP)  
**Funding Level:** \$471,000 **Year:** 1990-1992  
**Project Manager:** Isaac J. Crumbly  
**Title of Project:** CDEP

**Agency:** Agency for International Development  
**Funding Level:** \$299,632 **Year:** 1990-1991  
**Project Manager:** Melinda Davis  
**Title of Project:** Utilization of a Sub-Surface Plankton

**Agency:** Department of Energy/Department of Defense  
**Funding Level:** \$945,000 **Year:** 1990-1993  
**Project Manager:** Isaac J. Crumbly  
**Title of Project:** CDEP

**Agency:** Department of Interior and E.G. & G. Measurement  
**Funding Level:** \$110,500 **Year:** 1992-1993  
**Project Manager:** Isaac J. Crumbly  
**Title of Project:** Cooperative Development Energy Program

**Agency:** ASA – Sub-Contract of Eisenhower Education Act  
**Funding Level:** \$8,000 **Year:** 1990-1991  
**Project Manager:** Robert Steele  
**Title of Project:** Teaching Informal Geometry

**Agency:** National Heart, Lung and Blood Institute of NIH  
**Funding Level:** \$51,695 **Year:** 1990-1991  
**Project Manager:** Robert Steele  
**Title of Project:** Cardiovascular Effects of Aetrio Peptin III

**GRAMBLING STATE UNIVERSITY**  
**Grambling, LA 71245**

**Contact: Ms. Moroline S. Washington**  
**Director of Grants Administration**

**Telephone: (318) 274-2704**  
**Fax: (318) 274-4090**  
**Email: sandersmj@gram.edu**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Pia Alburquerque	Ph.D.	Chemistry	Mechanistic Studies and transition state energy calculation of metal catalyzed reactions
Bobby Burkes	Ph.D.	Chemistry	Computational studies of macromolecules involved in biological/physiological systems. Spectroscopy Analysis of Bioclymers and Synthetic Polymers
Danny Hubbard	Ph.D.	Chemistry	Rheological and thermal characterization of high temperature polyimides
Allen Miles	Ph.D.	Chemistry	Effects of UV lights on the structure of Lysozymes and Fibronectin. Effects of Nitric Oxide on the Binding of Fibronectin to Collagen fragments
Frank Obene	Ph.D.	Chemistry	Rheological Differences on Mammalian Vitreous Humor
Connie Walton	Ph.D.	Chemistry	Synthesis of Polymers

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Physics	Materials Science General Physics	Bachelors

**Laboratories and Other Facilities and Equipment**

The Department of Physics has state-of-the-art equipment in optics, electronics, and general physical laboratories. The Department is in the process of dramatically upgrading and adding to its facilities.

Research facilities and instruments located in and/or available to the Department are NQR, mass spectrometers, NMR spectrometers, scintillation counter, Mossbauer spectrometer, vibrating sample magnetometer, and 7 Tesla SQUID magnetometer. The Department has generous computer facilities in-house including seven Macintosh computers, twelve IBM-compatible personal computers, and a Novel server. The Department has access to the University's VAX/Alpha cluster.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
L.I. Britt	M.S.	Physics	X-ray Optics
S.R. Bullock	Ph.D.	Applied Physics	Optics/Optical Fibers
T.A. Dobbins	Ph.D.	Materials Science/Physics	Nanomaterials Characterization; USAXS; SANS; EXAFS
N.V. Seetala	Ph.D.	Physics/Materials Science	Positron Annihilations; Semimetallics; Defect Migration
M.F. Ware	Ph.D.	Physics	Magnetic Properties
Teng Zhu	Ph.D.	Computational Science	Simulation of Microstructures

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics & Computer Science	Software Engineering	Bachelors

**Laboratories and Other Facilities and Equipment**

Software Facilities: Our facilities enable students to develop, test, and debug Java programs in the environment of their choice: Windows or Linux. The school is part of the MSNDAA, which enables us to provide our students with free copies of Microsoft software for them to load on their own computers. Examples of this free software include Windows XP, Visual Studio NET, and Visio.

Our labs are loaded and continuously updated with popular and useful software such as Office XP, Visual Studio.NET, WinZip, etc. Furthermore, we are part of the Oracle Academic Initiative, which enables us to provide students with self-paced training in Oracle 9i.

Computing Facilities: The department has focused on two dominant operating systems: Microsoft Windows XP Professional and Red Hat Linux 9 Professional. We have five computer labs with the following hardware:

- Dell Precision 330 (for Red Hat Linux 9 Professional)
- Dell Optiplex GX260 (for Red Hat Linux 9 Professional)
- Dell Optiplex GX240 (for Microsoft Windows XP Professional)
- Dell Optiplex GX150 (for Microsoft Windows XP Professional)
- Dell Optiplex GX1 (for Microsoft Windows XP Professional)
- Dell Dimension 8100 (for Microsoft Windows XP Professional)
- Dell PowerEdge 4400 Servers (one for Windows 2000 Server; one for Linux A.S. 2.1)
- Dell PowerEdge 4200 Server (for Linux with Oracle 9i)
- IBM Netfinity 5500 Server (for Red Hat Linux 9 Professional)

We also have these resources:

Sun Ultra HPC 450 Server (Solaris)  
 Sun Ultra 1 Creator 3D (Solaris)  
 Alpha 8400 Mainframe (VAX/VMS)

**Researchers: Academic Backgrounds & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Arun Agarwal	Ph.D.	Mathematics	Theory of Complex Variables, Object Oriented Programming
Nandigam Gajendar	Ph.D.	Mathematics	Operating Systems, Theory of Elasticity
Moses Gwan	Ph.D.	Computer & Electronics Engineering	Signal & Image Processing, Information Theory, System Modeling, and Artificial Intelligence
Joseph Kurian	Ph.D.	Computer Science	Algorithms & Parallel Processing
Brenda Miles	M.Ed.	Mathematics	Data mining
Yenumula Reddy	Ph.D.	Computer Science	Intrusion Detection, Data Mining, Neural Networks
Margaret Schaar	Ph.D.	Computer Science	Operation Systems & Performance Evaluation
Parashu Sharma	Ph.D.	Chemical Engineering	Nucleate Pool Boiling Heat Transfer, Computational Heat Transfer, Programming Languages for Computational Science and Engineering
Avaine Strong	Ph.D.	Physics	Astrodynamics

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Developmental Education	Areas of English; Guidance & Counseling; Math, Reading; Science; Student Development; Personnel Services; Higher Education Administration & Management; Curriculum and Instructional Reading; Instructional Systems and Technology	Masters Level Doctoral Level

**Laboratories and Other Facilities and Equipment**

Academic Skills Center provides educational opportunities, technical art support services to under prepared/non-traditional learners. Masters and Developmental Students are able to develop curriculum.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Andolyn V. Harrison	Ph.D.	Educ. Administration and Supervision with Concentration in Higher Education, Administration and Management	Counseling, Advising, Teaching and Student Affairs
Dorothy L. Alexander	Ph.D.	Educ. Development	Counseling; Research; Teaching & Evaluation

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Criminal Justice	Law Enforcement Corrections Juvenile Justice Substance Abuse Security	Associates Bachelors Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
P. Ray Kedia	Ph.D.	Constitutional Law/Law	Use of Dangerous Weapons; Mandatory Drug Enforcement Testing
Daniel Dotter	Ph.D.	Deviant Behavior	Sociocultural Changes; white Collar Crime
Becky Tatum	Ph.D.	Criminal Justice	Incarceration for Black Inmate Criminal Justice 1920 1960; Using Music as Data; Crime & Law of Network Series
Fisher-Giorlando	Ph.D.	Corrections	
Mahendra Pal Sing	Ph.D.	Law Enforcement Juvenile Justice	Crime and Delinquency; Youth in Contemporary Society; Indian Police; Theory of Crime Causation; A Rational Analysis; International Terrorism, National Dilemmas

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Engineering Technology	Technology Engineering Technology	Bachelors

**Laboratories and Other Facilities and Equipment**

The Computer-Aided Drafting Laboratory is equipped with 30 Dell computers along with a Dell server. Computers equipped with AutoCAD. Digitizer and large format Turbo Scanner. Software also includes a Raster to Vector package.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Edwin B. Thomas	M.S./Ed.	Drafting Design	Mechanical CAD Training – Formal Training; Computer Aided Design, Suburban Mobility
Benedict N. Nwokolo	M.S.C.E. Ph.D.	Civil Engineering	Drafting & Design, Business & Computer M.B.A./M.S. Science

			Adequacy of Jackson, MS Municipal Transportation System; Redesigning Local Transportation Service for Improved Suburban Mobility
Shueh-Si Lee	Ph.D.	Engineering Chemical	Electrical Adaptive Control; Self-Organizing Process, Fuzzy Logic Control; Neural Network Control Systems Design
Shin-Shiu Chen	M.S.	Mechanical Engineering	Computer Control; Automated Control in Manufacturing Area CAD/CAM System
Fred Morales	M.S.	Civil Engineering	Techniques of Surveying
Ronald Berger	M.S.	Mechanical	Processing of Materials
Johnny Patterson, Jr.	M.S.	Electrical Engineering Technology Education	Engineering Education Training

**PROGRAM 7**

**SPECIALTY**

**DEGREE LEVEL**

Biology

Environmental  
Microbiology

Bachelors

**Laboratories and Other Equipment and Facilities**

HPLC Chromatograph, SDS Page equipment, Scanning Electron Microscope, and Equipment for protein characterization.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH</u></b>
Kothapa Chetty	Ph.D.	Physiology	Determination Cholesterol has on Liver Function
Felix Ifeanyi	Ph.D.	Microbiology	Post Translational Modification of Lens Proteins as Related to Cataract Formation
Wancence Dorsey	Ph.D.	Environmental	Influence Environmental Contaminates have on Mutagenesis

**HAMPTON UNIVERSITY**  
**Hampton, VA 23668**

**Contact: Harold J. Marioneaux, Jr., D.D.S.**  
**Interim Dean, School of Science**

**Telephone: (757) 727-5295**  
**Fax: (757) 727-5832**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biological Sciences	Microbiology Molecular Biology Ecological Biology	Masters

**Laboratories and Other Facilities and Equipment**

Electro microscopy facility, walk-in microbiological incubation facility, research vessel for ecological marine studies, special genetics research facility.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Edison Fowlks	Ph.D.	Biotechnology	Molecular Virology
James Forbes	Ph.D.	Biology	Neurophysiology/Electro-Physiology
James Wise	Ph.D.	Biology	Immunology, Cancer Research, Neurobiology, Environmental Toxicology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Analytical Chemistry Biochemistry Chemical Instrumentation Computational Chemistry Polymer Science Surface Chemistry	Masters

### **Laboratories and Other Facilities and Equipment**

Chemical Measurement Laboratory Facility; Water Quality Laboratory; Mass Spectrometry; HPLC; Capillary Electrophoresis; Ion Chromatography; Gas Chromatography

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Edmund Ndip	Ph.D.	Chemistry	Computational Chemistry
Godson Nwokogu	Ph.D.	Chemistry	Organic Synthesis
Joseph Williams	Ph.D.	Chemistry	Surface Chemistry, Instrumentation, Analytical Method Development
Isai Urasa	Ph.D.	Chemistry	Analytical Chemistry, Environmental Analytical Chemistry, Trace Element Speciation, Environmental Chemistry of Biosolids

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Marine & Environmental Science	Invertebrate Systematics Estuarine Ecology Sedimentary Petrology Coastal Processes	Bachelors

### **Laboratories and Other Facilities and Equipment**

Four research vessels, field laboratory on the Virginia Eastern Shore, sediments processing laboratory. Dedicated Center for Marine and Coastal Environmental Studies containing six research laboratories

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
George Burbank	Ph.D.	Marine Science	Coastal and Estuarine Processes and Ecology
Benjamin Cuker	Ph.D.	Zoology	Plankton Systematics and Distribution

Deidre Gibson	Ph.D.	Marine Science	Zoo Plankton Ecology
Robert Jordan	Ph.D.	Environmental	Systematics and Ecology of Plankton and Benthos

**PROGRAM 4**

Physics

**SPECIALTY**

Atmospheric Sciences  
Hydrology  
Lasers  
Medical Physics  
Nanomaterials  
Nuclear Physics  
Optical Physics

**DEGREE LEVEL**

Ph.D.

**Laboratories and Other Facilities and Equipment**

Advanced electro-optics, laser studies, nuclear high energy physics, medical physics, nanomaterials facilities. Observatory. The Physics Department houses the following centers: Center of the Origin and Study of Matter, Center for Atmospheric Sciences, Center for Advanced Medical Instrumentation.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Anderson	Ph.D.	Atmospheric Sciences	Satellite Ozone and Water Vapor Validation
Oliver Baker	Ph.D.	Nuclear Physics	Electromagnetic Production of Strange Mesons
Eric Christy	Ph.D.	Nuclear Physics	Experimental Nuclear Physics
Jose Goity	Ph.D.	Nuclear Physics	Chrial Perturbation, Strong Interactions
Wei Gong	Ph.D.	Optical Physics	Optical Physics
Paul Gueye	Ph.D.	Nuclear Physics	Experimental Nuclear Physics
Wendy Hinton	Ph.D.	Nuclear Physics	Experimental Nuclear Physics
Uwe Hommerich	P.D.	Optical Physics	Laser Spectroscopy
Cynthia Keppel	Ph.D.	Nuclear Physics	Experimental Nuclear Physics

Stanislav Kireev	Ph.D.	Atmosphere Sciences	Intercomparison and Umkehr Ozone Retrieval Algorithms
Tom Kovacs	Ph.D.	Atmospheric Sciences	In-Situ and Remote Gases, Clouds, and Aerosols and Their Impacts on Regional and Global Weather
Donald Lyons	Ph.D.	Physics	Fiber Optics
Patrick McCormick	Ph.D.	Atmospheric Sciences	Remote Sensing, Lidar and Satellite Data Analysis, Atmospheric Science
Kenneth McFarlane	Ph.D.	Nuclear Physics	Particle Physics and Experimental Nuclear Physics
Khin Maung	Ph.D.	Nuclear Physics	Theoretical Nuclear Physics Mathematical Physics
Larry Mtetwa	Ph.D.	Atmospheric Sciences	Satellite Aerosol and Smoke Product Studies
Hovakim Nazaryan	Ph.D.	Atmospheric Sciences	Global Ozone Time Series Analysis, Ozone Effects on Temperature and Climate
Wayne Pryor	Ph.D.	Atmospheric Sciences	Planetary Atmospheres Using Ultraviolet Data From NASA's Projects Galileo and Cassini
Claudia Rankins	Ph.D.	Nuclear Physics	Theoretical Nuclear Physics Particle Physics
James Russell III	Ph.D.	Atmospheric Sciences	Atmospheric Science, Remote Sensing
JaeTae Seo	Ph.D.	Optical Physics	Lasers Nanomaterials
Ayman Suleiman	Ph.D.	Hydrology	Modeling of Agriculture Hydrology
Bagher Tabibi	Ph.D.	Optical Physics	Lasers, Raman Scattering
Liguanag Tang	Ph.D.	Nuclear Physics	Production of Hyperons
Doyle Temple	Ph.D.	Optical Physics	Spectroscopy of Optical Materials
Alicia Uzzle	Ph.D.	Nuclear Physics	Experimental Nuclear Physics

Wendy Hinton	Ph.D.	Nuclear Physics	Experimental Nuclear Physics
Ismail Yucel	Ph.D.	Hydrology	Hydro meteorological Modeling

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** NASA  
**Funding Level:** \$92,000,000      **Year:** 2002  
**Project Manager:** James Russell and Patrick McCormick  
**Title of Project:** AIM – Aeronomy of Ice in the Mesosphere

**Agency:** NSF  
**Funding Level:** \$5,000,000      **Year:** 2002  
**Project Manager:** Oliver Baker  
**Title of Project:** Center for the Study of the Origin of Matter

**Agency:** NASA  
**Funding Level:** \$200,000      **Year:** 2002  
**Project Manager:** Doyle Temple  
**Title of Project:** Center for Lidar and Atmospheric Sciences Students

**INTER-AMERICAN UNIVERISTY OF PUERTO RICO**  
**San Juan, PR 00936-3255**

**Contact: Mr. Amaury Boscio-Vargas                      Telephone: (787) 758-0880**  
**Assistant Vice President for Research      Fax:                      (787) 250-7984**

**and**

**Sponsored Programs**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		Bachelor

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Freddy Mcdina	Ph.D.	Biology	Parasitology
Amelia Rivers	Ph.D.	Biology	Physiology
Pedro Bendezu	Ph.D.	Biology	Parasitology
Armando Rodriquez	Ph.D.	Biology	Biology of Vertebrates
Hector Quintero	Ph.D.	Biology	Ecology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Environmental Science		Bachelor Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Graciela Ramirez	Ph.D.	Environmental Science	Environmental Microbiology

**PROGRAM 3**

Biomedical Science

**SPECIALTY**

**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

Anne D. Frame

Ed.D.

Biology

Microbiology

Juan Negron

Ph.D.

Biochemistry

Biotechnology

Harry Alices

Ph.D.

Genetics

Molecular Genetics

**Recent DoD/Other Contract/Grant/Procurement Experiences**

None indicated.



**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Abdul Mohamed	Ph.D.	Invertebrate Pathology	Biological Control of Insects Pestsp; Electron Microscopy
Joseph Cameron	Ph.D.	Endocrinology & Development	
Vernon Archer	Ph.D.	Endocrinology	Studies on Colonization and Population Density in Selected Marine Organisms
Mark Hardy	Ph.D.	Microbiology	Studies on Research Enhancement Initiatives
Greg Begonia	Ph.D.	Plt Physiology	Plant/Environmental Physiology
Huey min-Hwang	Ph.D.	Environmental Microbiology	Studies in Bioremediation PAH's
Paul Tchounwou	Sc.D.	Environmental Toxicology	Pesticide, Water Quality
Maria Begonia	Ph.D.	Soil Microbiology	Microbial Phytoremediation
Paulinus Chigbu	Ph.D.	Marine Fisheries	Marine Life and Fisheries
Steven Ekunwe	Ph.D.	Cellular/Molecular Biology	Cytotoxicity of PAH's
Thomas Sturgis	Ph.D.	Wetland Ecology	
Barbara Wilson	Ph.D.	Genetics	
Wen-Hsun Yang	Ph.D.	Immunology Gene Technology	Molecular Biology, Genetics
Cedric Buckley	Ph.D.	Micro/Genetics	O Gel Shift Studies for Bioremediation
Ibrahim Farah	Ph.D.	Micro/Food Science	
Kenneth Goldman	Ph.D.	Fisheries Biology	
Elegenaïd Hamadain	PH.D.	Biostatistics	
Ernest Izevbigie	Ph.D.	Biostatistics Support Cell/Molecular/Biology	
Ramzi Kafoury	Sc.D.	Molecular Toxicology	Center for Environmental Health

Jacqueline Stevens	Ph.D.	Molecular/Cellular/Biology	
Angela Washington	Ph.D.	Zoology	
Carolyn Howard	Ph.D.	Pharm/Toxicology	Center for Environmental Health

**PROGRAM 2**

Chemistry

**SPECIALTY**

Analytical Studies  
 Basic Research  
 Biochemistry  
 Chemical & Biochemical Research  
 Environmental  
 Laser Chemistry  
 Materials  
 Organic  
 Physical Chemistry  
 Spectroscopy  
 Computational Chemistry

**DEGREE LEVEL**

Bachelor  
 Masters  
 Doctoral

**Laboratories and Other Facilities and Equipment**

The School of Business has two well equipped Computer Labs for undergraduate and graduate students. The lab consists of PC's and terminals connected to the Academic and Research Computing Environment.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Richard Sullivan	Ph.D.	Physical Chemistry	Molecular Interactions in Macromolecules
Wedad Hussein	Ph.D.	Analytical Chemistry	
Hiroyasa Tachikawa	Ph.D.	Analytical Chemistry	Electrochemical and Spectroscopic Studies on Charge Transfer and Energy Transfer Processes in Thin Film & Solution Systems
Yiming Liu	Ph.D.	BioAnalytical Chemistry	
Eric Noe	Ph.D.	Physical Organic Chemistry	Conformational Studies Using Dynamic NMR Spectroscopy
Xiaotang Wang	Ph.D.	Inorganic Chemistry	

Ashton Hamme	Ph.D.	Organic Chemistry	Natural Product Synthesis
Ken S. Lee	Ph.D.	Organic Chemistry	Organic Synthesis
Hongtao Yu	Ph.D.	Organic Chemistry	Environmental/Chemical Toxicology
Ramaiyer Venkatraman	Ph.D.	Physical Chemistry	
Ming Ju-Huang	Ph.D.	Theoretical Chemistry	Molecular Similarity
Jerzy Leszczynski	Ph.D.	Computational Chemistry	Nature of Chemical Bonds
John Watts		Computational Chemistry	

### **PROGRAM 3**

Marine, Estuarine & Environmental Sciences

### **SPECIALTY**

Atmosphere I  
Biology  
Chemistry  
Ecology  
Environmental Science  
Life Sciences  
Marine Biology  
Marine Sciences  
Physics  
Water Resources Management

### **DEGREE LEVEL**

Bachelors  
Masters  
Doctoral

### **Laboratories and Other Facilities and Equipment**

A Marine Science laboratory is used extensively by the persons in this program. The laboratory is equipped with computer hardware as well as studies in Marine and Environmental Science.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Paulinus Chigbu	Ph.D.	Marine Science	Aquatic Toxicology
Kenneth Goldman	Ph.D.	Fisheries	
Abdul Mohamed	Ph.D.	Invertebrate Pathology	Biological Control of Insect Pests; Electron Microscopy
Vernon Archer	Ph.D.	Endocrinology	Studies on Colonization and Population Density in Selected Marine Organisms

Paul Tchounwou	ScD.	Biology/Environmental Toxicology	Pesticide Water Quality
----------------	------	----------------------------------	-------------------------

**PROGRAM 4**

Physics

**SPECIALTY**

Applied Physics  
 Astronomy  
 Biophysics  
 Computer Assisted Instruction  
 High Energy  
 Laser Induced in Semiconduction  
 Laser  
 Material Research  
 Material Science  
 Molecular Computations  
 Molecular Physics  
 Physiology  
 Spectroscopy  
 Theoretical Physics  
 Thin Films

**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

The physics lab consists of three (3) computer laboratories equipped with IBM, Xerox, Apple Computers, two VAX 11/780 CPU's bound together in a VAX Cluster with 8 megabytes of memory for academic computing and 10 megabytes of memory dedicated for research activities.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Rezawul Karim	Ph.D.	Physics	Solid-State Physics
Lonzy Lewis	Ph.D.	Atmospheric Sciences	Solid & Terrestrial Radiation; Solar Measurements and Modeling Aerosol and Cloud Physics; Atmospheric Diffusion Networks, Non-Linear Dynamics/Fractal
Shayne Johnston	Ph.D.	Plasma Physics	
Peter Chang	Ph.D.	Physics	
Carl Drake	Ph.D.	Physics	
Mehri Fadayi	Ph.D.	Physics	
Frank Hagelberg	Ph.D.	Physics	
Ezat Heydari	Ph.D.	Physics	Atomic Clusters Systems
Abu Khan	Ph.D.	Physics	Geologic Strata
Marshall Longmire	Ph.D.	Physics	
Tracy Pickett	Ph.D.	Physics	

R.S. Reddy	Ph.D.	Physics	
Tigran Shahbazyan	Ph.D.	Physics	
Vijaya Shankar	Ph.D.	Physics	
Frances Tuluri	Ph.D.	Physics	
Wilbur Walters	Ph.D.	Physics	
Loren White	Ph.D.	Physics	Meteorology
Loren White	Ph.D.	Physics	
Quinton Williams	Ph.D.	Physics	

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Psychology	Basic Research	Bachelor
	Behavioral	Doctoral
	Biofeedback Mechanism	
	Biological	
	Clinical Psychology	
	Cognitive	
	Counseling Psychology	
	Educational Psychology	

### **Laboratories and Other Facilities and Equipment**

Equipped with IBM, Xerox and various other types of computer software.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Louis Anderson	Ph.D.	Psychology	Coping Af. Am.
John Askew	Ph.D.	Psychology	HIV/AIDS
Pam Banks	Ph.D.	Psychology	Cognitive
Jeff Cassisi	Ph.D.	Psychology	Pain Rehab
Richard Chiles	Ph.D.	Psychology	Gender Issues
Gary Chong	Ph.D.	Psychology	Ch. Psychotherapy
Melvin Davis	Ph.D.	Psychology	Exp. Psych.
Keith Hudson	Ph.D.	Psychology	Ed. Psych
Jeff Kibbler	Ph.D.	Psychology	Health Psych.
Cynthia Ford	Ph.D.	Psychology	Ethnic Minorities
An Yen Liu	Ph.D.	Psychology	Social Cognition
Kaye Sly	Ph.D.	Psychology	HIV/AIDS
Shih-Sung Wen	Ph.D.	Psychology	Mental Imagery

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Agricultural/Soil & Plant Science	Biotechnology	Bachelors
	Water Resource	Masters
	Management	

### **Laboratories and Other Facilities and Equipment**

The Department of Biology houses a Plant Science Laboratory and Research facility. The lab contains computer software and other related research and teaching instruments.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	----------------------------------

Abdul K. Mohamed	Ph.D.		
------------------	-------	--	--

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
-------------------------	-------------------------	----------------------------

Airway Science	Computer Science Air Traffic Control Management	Bachelors Masters
----------------	---	----------------------

### **Laboratories and Other Facilities and Equipment**

The Department of Technology houses the Airway Science Program. A general Computer Science laboratory is available to the students and faculty in Airway Science.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	----------------------------------

Mike Omoregie	Ed.D.	Industrial Technology	
Sonny Bolls	Ed.D.	Industrial Technology	
Charlie Gaulden	Ph.D.	Industrial Vocation	Manufacturing Processing
Raphael Lee	Ed.D.	Industrial Education	Integrated Computer Systems
Hui-Ru Shih	Ph.D.	Mechanical Engineering	CAD/CAM/CAE, Robotics
Pao Yuan	Ph.D.	Civil Engineering	Hazardous Waste/Risk

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
-------------------------	-------------------------	----------------------------

Business & Related Areas	Accounting Administration Business Education Office Management Business Information Systems Computer Information Economics Entrepreneurial Development Evaluation Research Finance Financial Accounting	Bachelors Masters Doctoral
--------------------------	--	----------------------------------

Management  
 Management Information  
 System Marketing  
 Quantitative

**Laboratories and Other Facilities and Equipment**

The School of Business has two well equipped Computer Labs for undergraduate and graduate students. The labs consist of PC's and terminals connected to the Academic and Research Computing Environment.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Glenda Glover	Ph.D.	Dean	
McKinley Alexander	Ph.D.	Economics	
Quinton Booker	Ph.D.	Accounting	
Cynthia Blackwell	Ph.D.	Business Admin.	
Della Posey	Ph.D.	Business Admin.	
Mary White	Ph.D.	Business Admin	
Shelia Porterfield	Ph.D.	Business Admin.	
Richard Russell	JD	Accounting	
Cecil Hill	Ph.D.	Accounting	
Dharam Rana	Ph.D.		
Michael Grayson	Ph.D.	Accounting	
John Hurley	Ph.D.	General Business	Finance
Jesse Pennington	Ph.D.		
Maury Granger	Ph.D.	Economics	
Jean Claude- Assad	Ph.D.	Economics	
Phillip Fuller	Ph.D.	Finance	
Robert Hairston		Finance	
Patricia Freeman	Ph.D.	General Business	
Okechukwu D. Anyamele	Ph.D.	General Business	
Geungu Yu	Ph.D.	Finance	
JR Smith	Ph.D.	Marketing/Management	
Mohammad Bsot	Ph.D.	Marketing/Management	
C. Lakshman	Ph.D.	Marketing/Management	
Alisha Mosley	Ph.D.	Marketing/Management	
Samuel Perkins	Ph.D.	Marketing/Management	
Rupar Raunair	Ph.D.	Marketing/Management	
Joann White	Ph.D.	Marketing/Management	
Hyongsong	Ph.D.	Marketing/Management	

Chong		
Zaid Swaidan	Ph.D.	Marketing/Management
Ricky Warner	Ph.D.	Marketing/Management

<u>PROGRAM 9</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer & Information Science	Artificial Intelligence Assembly Languages Basic Research Business Applications Computer Aided Instruction Computer Architecture Computer in Biomedicine Computer Information Sciences Computer Simulation and Modeling Computer Training Data Communications Data Processing Database Development Expert Systems Graphics Information Systems Local networks Math Applications Micro-Computer Networking Multiprocessing Systems Numerical Analysis Programming/Information Management System Remote Sensing Software Design & Development Remote Sensing Software Design & Development Systems Management Topology	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Three (3) computer laboratories equipped with IBM, Xerox, Apple Computers, two VAX 11/780 CPU's bound together in a VAX Cluster with 8 megabytes of memory for academic computing and 10 megabytes of memory dedicated for research activities.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Prem Bhalla	Ph.D.	Computer Science & Statistics	Biostatistics, Bayesian Analysis Simulation

Gwng S. Jung	Ph.D.	Computer Science	Artificial Intelligence
Tesfa Haile	Ph.D.		
Marvin Israel	Ph.D.		
Clyde Christopher			
Loretta Moore	Ph.D.	Computer Science	
Willie Brown	Ph.D.	Computer Science	
Outaibah Malluhi	Ph.D.	Computer Science	Distributed Systems
Charles Bland	Ph.D.	Computer Science	
Marques Griffin	M.S.	Computer Science	Database Management Systems
Sungbum Hong	Ph.D.	Inf/Computer Science	
Houssain Kettani	Ph.D.	Electrical Engineering	
Hyunju Kim	Sc.D.	Computer Science	Error Recovery
Xuejun Liang	Ph.D.	Computer Science/Engineering	Dig. Circuit Design
Godwin Offiah	M.S.	Computer Science	Hardware Int.
Tzusheng Pei	Ph.D.	Computer Science	
Sunita Rana	Ph.D.	Computer Science	Op. Systems
John Wicks	Ph.D.	Electrical Engineering	Hi Performing Comp

**PROGRAM 10**

**SPECIALTY**

**DEGREE LEVEL**

Education	Administration	Bachelors
	Adult Education	Masters
	Continuing Education Curriculum & Instruction	Specialist
	Early Childhood	Doctoral
	Elementary Education	
	Higher education Administration and Management	
	Instructional Systems & Technology	
	K-12	
	Middle School Education	
	On-Site Child Care Facility	
	Development	
	Physical Education	
	Reading	
	Secondary Education	
	Special Education	
	Special Exceptional Education	
	Student Development Personnel Services	
	Teacher Education	
	Teacher Training	
	Urban Education	

## **Laboratories and Other Facilities and Equipment**

Two fully equipped computer laboratories are located in the School of Education. These laboratories are equipped with IBM, and Xerox hardware.

## **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Joseph Stevenson	Ph.D.	Education	
Ivory Phillips	Ph.D.	Education	Social Science
Walter Crockett	Ph.D.	Education	Counseling, Psychology
G. Dansby-Giles	Ed.D.	Education	Counseling, Education
Gloria Fouche	Ph.D.	Education	Counseling, Psychology
Rannie Lewis	Ph.D.	Education	Counseling, Psychology
Dion Porter	Ph.D.	Education	Rehab, Counseling
Ruth Searcy	Ed.D.	Education	Early Childhood Education
Linda Channell	Ed.D.	Education	Early Childhood Education
Bettye Coleman	Ed.D.	Education	Early Childhood Education
Marie Roos	Ph.D.	Education	Reading, Language
Vivian Taylor	Ed.D.	Education	Special Education
Rodney Washington	Ed.D.	Education	Counseling, Education
Hill Williams	Ed.D.	Education	HPER
William Brown	Ed.D.	Education	HIPER
Gwen Dawkins	M.S.	Education	HIPER
Martin Epps	M.S.	Education	HPER
Jacqueline Jackson	M.S.	Education	HPER
Narah Oatis	Spec.	Education	HPER
Andrew Pennington	M.S.	Education	HPER
Sidney McLaurin	Ph.D.	Education	Music Education
Laverne Allen	Ph.D.	Education	Reading/Elementary Education
Carrine Bishop	Ph.D.	Education	Curriculum Instruction
Carolyn Craig	Ph.D.	Education	Curriculum Instruction
Stephen Enwefa	Ph.D.	Education	Education Leadership
Jacqueline Franklin	Ph.D.	Education	Administration
Zacharias Gaye	Ph.D.	Education	Education Leadership
Ernestine Holloway	Ph.D.	Education	Education Leadership
Donna Lander	Ph.D.	Education	Education Leadership
Tabitha Olieno	Ph.D.	Education	Social Science
Lou H. Sanders	Ph.D.	Education	Library Science
Gail Snipes	Ph.D.	Education	Curriculum Instruction
Darlene Thurston	Ph.D.	Education	Educational Policy
Stephen Walker	Ph.D.	Education	English

Locord Wilson	Ph.D.	Education	Education Technology
Alberta Yeboah	Ph.D.	Education	Social Science
Celestine Aker	Ph.D.	Education	Special Education
Mary Anderson	Ph.D.	Education	Special Education
Yvonne Brooks	Ed.D.	Education	Special Education
Frank Giles	Ph.D.	Education	Rehab Psych
Mary Anderson	Ph.D.	Education	Special Education
Yvonne Brooks	Ph.D.	Education	Special Education

<b><u>PROGRAM 11</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Center for Teacher Excellence	Faculty Development Behavioral Research Early Childhood Research Quantitative Methods Educational Policy	Masters

### **Laboratories and Other Facilities and Equipment**

Two fully equipped computer laboratories are located in the School of Education. These laboratories are equipped with IBM, and Xerox hardware.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Carolyn Higgins	Ph.D.		
Johnnie R. Mills	Ph.D.		

<b><u>PROGRAM 12</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Engineering & Related Technology	Artificial Intelligence Computer Technology Design Technology Drafting Electrical Engineering Engineering Electronics Engineering Energy Energy Research Environmental Science Research Material Science Robotics Simulation Water Resources	Bachelors

### **Laboratories and Other Facilities and Equipment**

Three (3) computer laboratories equipped with IBM, Xerox, Apple Computers, two VAX 11/780 CPU's bound together in a VAX Cluster with 8 megabytes of memory for academic computing and 10 megabytes of memory dedicated for research activities

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
William Brewer	Ph.D.	Physical Chemistry	
Richard Sullivan	Ph.D.	Physical Chemistry	Molecular Interactions on Macromolecules
Sonny Bolts	Ph.D.		
Raphael Lee	Ph.D.		
Sam Cobbins	Ph.D.		
Farshad Amini	Ph.D.	Civil Engineering	Soil Dynamics
Yadong Li	Ph.D.	Environmental Engineering	Soil/Hazardous Waste
Hak Chul Shin	Ph.D.	Civil Engineering	Forensics Studies
Reza Tayakoli	Ph.D.	Civil Engineering	Hi Performance Concr.
Shikha Rahman	Ph.D.	Civil Engineering	Env. Water Resources
Mahmoud Manzoul	Ph.D.	Electrical Engineering	Fuzzy Logic
Sam White	Ph.D.	Civil Engineering	
Ping Wu	Ph.D.	Electrical Engineering	

<b><u>PROGRAM 13</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Humanities	African and Western Literature Afro-American Literature Afro-American Studies English Library & Information Studies literature Romance Languages Urban Literacy	

### **Laboratories and Other Facilities and Equipment**

Housed in the School of Liberal Arts and is primarily equipped with IBM and Xerox hardware. Additionally, it shares laboratory equipment with the departments in the area of Social Science.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Brenda Thompson	Ph.D.		
Jimmy Bell	M.S.		
Segrect	Ph.D.		
Wailes			
Robert Williams	Ph.D.		
Sarah Banks	Ph.D.		

<b><u>PROGRAM 14</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics	Computer Science	Bachelors
	Engineering	Masters
	Math Education	
	Statistics	

**Laboratories and Other Facilities and Equipment**

Three (3) computer laboratories equipped with IBM, Xerox, Apple Computers, two VAX 11/780 CPU's bound together in a VAX Cluster with 8 megabytes of memory for academic computing and 10 megabytes of memory dedicated for research activities.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
William White	Ph.D.	Complex Analysis	Univalent Function
Paul Stein	Ph.D.		
Bessie Tucker	Ph.D.	Mathematics Education	Mathematics Education
Y. Pan	Ph.D.		
Ruben Gentry	Ph.D.	Functional Analysis	

<b><u>PROGRAM 15</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Science Administration	Demographic, Economic & Social Surveys	Bachelors
	Family Relations	Masters
	Gerontology	Doctoral
	International Studies	
	Social Research	
	Social Work	
	Sociology	

### **Laboratories and Other Facilities and Equipment**

Equipped with IBM, Xerox and various other types of computer software.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Gwen Prater	DSW	Social Work	Child Welfare
Susie Spence	Ph.D.	Social Work	Gerontology
Ruth Williams	DSW	Social Work	Gerontology
Allan Bougere	Ph.D.	Social Work	Research Stats
Beverly Edwards	Ph.D.	Social Work	Clinical Practice
Phyllis Hammonds	Ph.D.	Education	Rural Health
Mary Nelums	Ph.D.	Social Work	Clinical Practice
Safiya Omari	Ph.D.	Psychology	Social Psych.
Edith Williams	Ph.D.	Social Work	Family Relationships
Beverly Edwards	Ph.D.	Social Work	Clinical Practice

<b><u>PROGRAM 16</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Technology	Automotive Technology	Bachelors
	Design Technology	Masters
	Industrial Technology	

### **Laboratories and Other Facilities and Equipment**

Three (3) computer laboratories equipped with IBM, Xerox, Apple Computers, two VAX 11/780 CPU's bound together in a VAX Cluster with 8 megabytes of memory for academic computing and 10 megabytes of memory dedicated for research activities.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mike Omoregie	Ed.D.	Industrial Technology	
Sonny Bolls	Ed.D.	Industrial Technology	
Charlie Gaulden	Ph.D.	Industrial Vocation	Manufacturing Processing
Raphael Lee	Ed.D.	Industrial Education	Integrated Computer Systems
Hui-Ru Shih	Ph.D.	Mechanical Engineering	CAD/CAM/CAE, Robotics
Pao Yuan	Ph.D.	Civil Engineering	Hazardous Waste/Risk

**PROGRAM 17****SPECIALTY****DEGREE  
LEVEL**

Urban Studies and Public Policy

Criminal Justice  
 Public Administration  
 Personnel Administration  
 Budgeting  
 Financial Management  
 Human Resource Development  
 Quantitative Methods  
 Program Operation & Development  
 Urban management Systems  
 Basic Research  
 Public Service  
 Urban Affairs  
 Urban Literacy

Bachelors  
 Masters  
 Doctoral

**Laboratories and Other Facilities and Equipment**

Equipped with IBM, Xerox and various other types of computer software.

**Researchers: Academic Background & Research Specialty (ies)****NAME****DEGREE****DISCIPLINE****RESEARCH  
SPECIALTY**

Curtina Moreland-Young	Ph.D.	Public Policy	
Emeka Nwagwu	Ph.D.	Public Policy	
Frances Liddell	Ph.D.	Public Policy and Admin.	
Bennett Odunsi	Ph.D.	Public Policy	
Olorominyi Ibitayo	Ph.D.	Public Policy	
Otha Burton	Ph.D.	Public Policy	
Delina Berry	Ph.D.	Public Policy	
George Amedee	Ph.D.	Public Policy	
Mike Carter	M.S.	Military Science	
Mark Sereduck	LTC	Military Science	
Mark Green	MAJ	Military Science	
Gwen Herrington	MAJ	Military Science	
Doug Lindquist	CAPT	Military Science	
Edward Welch	Ph.D.	Mass Communications	Black Newspaper
O E Aworuwa	Ph.D.	Mass Communications	Advertising
Clive Enos	Ph.D.	Mass Communications	Media Impact
Freda Lewis	Ph.D.	Mass Communications	Black Press
Yulian Li	Ph.D.	Public Relations	Agenda Setting
Robert List	Ph.D.	English Literature	Afrocentrism
Russell Thomas	Ph.D.	Music Education	Jazz
Johnny Anthony	Ph.D.	Music Education	Instrumental Music
Jimmy James	Ph.D.	Music Education	Music



LAB #1 includes equipment such as ultra microtome, cyoultramicrotome, research microscope equipped with photographic and fluorescent attachment, supraspeed centrifuge, nanopure water system and photographic enlarger and darkroom accessories.

LAB #2 – This lab is equipped with Forma incubator, Labconco Laminar-Flow biological safety hood, sterilizer for tissue culture and transfer under aseptic conditions.

LAB #3 - Water Quality Lab consists of an orbital shaker, temperature control oven, water bath, Beckman GPR gentrifuge, sonic dismembranator, gel electrophoresis equipment for protein and DNA, gel dryer, vapor trap, Fisher isotem 4C, water blot equipment, spectrophotometer, glean bench, Sorvall ultracentrifuge, eppendoff centrifuge, walk-in cold room, membrane filtration equipment, hydro lab (for water analysis in the field) turbid meter, flow meters, LaMotte water analysis kit, and HACH DR/4000i.

LAB #4 – This lab is used for general research preparation in the conduction of biomedical experiments.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Nurul Alam	Ph.D.	Molecular Biology	Transcriptional Regulation of Surfactant Protein Gene Expression
Dr. James Goodwin	Ph.D.	Biology (Entomology)	Study of Immature States of Diptera
Dr. Johnnye M. Jones	Ph.D.	Molecular Biology	Electron Microscopy and Molecular Biology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Basic Research	Baccalaureate

**Laboratories and Other Facilities and Equipment**

Well-designed laboratories, equipped with facilities for performing chemistry experiments which include a FTIR Spectrum-1000 spectrometer/horizontal ATR accessory for FTIR spectrum-1000 spectrometer, Water pro water purification system, OHAUS analytical balances, 2 spectronic Genesys, 3 UV spectrophotometers, 2 vacuum pumps and compressors, Gold star microwave oven, corning Ph meters, table top centrifuges, top loader balances and several hop plate stirrers.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Glendora Carter	Ph.D.	Biochemistry	Signal Transduction Involving Lipid-Protein Interactions

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics	Basic Research	Baccalaureate

**Laboratories and Other Facilities and Equipment**

Well-designed laboratories, equipped with facilities for performing physics experiments.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ignatius Okafor	Ph.D.	Physics	Metallography Studies of Mass Transport Diffusion, Alloy Phase Equilibria, Solute/Oxide Formation, Kinetics and Migration

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Information Systems	Basic Research	Baccalaureate

**Laboratories and Other Facilities and Equipment**

Well-designed laboratories, equipped with facilities for performing chemistry experiments.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ms. Elnor Pounds	M.S.	Computer Science	Research Activities Include Network Security Analysis of Trends in Hardware and Software; Role of Cryptography in Security

Joseph Bih	M.B.A.	Computer Information	Research Applies to Object Oriented Programming in C++, Fuzzy Logic Technology and its Application to Other Sciences
------------	--------	-------------------------	---

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** Houston Endowment  
**Funding Level:** \$200,300 **Year:** 3 year  
**Project Manager:** Mr. T. Armstrong  
**Title of Project:** HBCU Technology Advancement Program

**Agency:** National Science Foundation  
**Funding Level:** \$2,507,411 **Year:** 2001-2006  
**Project Manager:** Dr. J. Jones  
**Title of Project:** Creating Windows of Opportunity for Success in the SMET  
Areas

**Agency:** Welch Foundation  
**Funding Level:** \$60,000 **Year:** 2002-2005  
**Project Manager:** Dr. G. Carter  
**Title of Project:** Improvement of the Physical Chemistry and Biochemistry  
Laboratory Courses Through Research

**Agency:** National Institutes of Health  
**Funding Level:** \$275,400 **Year:** 3 year  
**Project Manager:** Dr. G. Carter  
**Title of Project:** Jarvis Christian College Sponsored Research Infrastructure  
Program



Frank Parker	M.S.	Chemistry Curriculum	Teaching and Learning with Education Technology
B.K. Chopra	Ph.D.	Botany & Microbiology	Microbiology Nutritional Physiology of Microorganisms
Henry Russell	Ph.D.	Organic Chemistry	Synthesis of Medium-Size Ring, Nitrogen Heterocycles
Nsoki Phambu	Ph.D.	Physical/Analytical Chemistry	Aluminum Hydroxide Crystalline Forms
Rosalyn Lang-Walker	Ph.D.	Cell/Molecular Biology	Mutation Associated with Familial Hypertrophic Cardiomyopathy
Joseph Fail	Ph.D.	Ecology	Heavy Metals Research and Ecological Impacts on the Environment
Tim Champion	Ph.D.	General Chemistry	Science Education
Magdy Attia	Ph.D.	Mathematics/Computer Science	Microwave and Millimeter Wave Technology, Telecommunications and Remote Sensing
Yung Bai	Ph.D.	Computer Science	Automatic Control Systems; Robotics; Digital Signal Processing, Software Engineering and Design
Osman Gurdal	Ph.D.	Electronics/Computer Science	Microelectronics and Software Design
Ahmed Faik	Ph.D.	Electronics	Microelectronics
Satish Bhalla	Ph.D.	Computer Science/Biology	Database, Software Design and Bioinformatics
Awatif Amin	M.S.	Computer Science	Neural Networks and Software Design

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** National Institute of Health  
**Funding Level:** \$603,577 **Year:** 4 years  
**Project Director:** Dr. Nsoki Phambu  
**Title of Project:** MBRS-SCORE-Biomedical Research at Johnson C. Smith University

**Agency:** Medical University of South Carolina  
**Funding Level:** \$314,301 **Year:** 3 years  
**Project Director:** Dr. Ruth Greene  
**Title of Project:** Cooperative for Healthy Aging in Minority Populations

**Agency:** National Institute of Health  
**Funding Level:** \$2,678,497 **Year:** 5 years  
**Project Director:** Dr. Tim Champion  
**Title of Project:** MBRS-RISE-Research Enhancement at JCSU

**Agency:** NASA Glenn Research Center  
**Funding Level:** \$197,000 **Year:** 3 years  
**Project Director:** Dr. Magdy Attia  
**Title of Project:** The Development of a Passive Millimeter Wave Imager

**Agency:** NASA Glenn Research Center  
**Funding Level:** \$55,000 **Year:** 1 year  
**Project Director:** Dr. Magdy Attia  
**Title of Project:** Optimum Design of Passive Millimeter Wave Imagers

**LINCOLN UNIVERSITY OF MO**  
**Jefferson City, MO 65101**

**Contact: Bettye Driver, Coordinator**  
**Office of Grants and Title III**

**Telephone: (573) 681-5582**  
**Fax: (573) 681-6074**  
**Email: driverb@lincoln.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Biology Education Medical Technology	Bachelors

**Laboratories and Other Facilities and Equipment**

Each of the above specialties uses the same laboratory facilities and supportive equipment. In the Biology area there are six teaching laboratories and one research laboratory. All are equipped with equipment appropriate to laboratory's use. The research laboratory is equipped with the equipment and instrumentation appropriate to the research being conducted.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jennifer Benne	Ph.D.	Biology	Mosquito Ecology and Genetics
Nathan H. Cook	Ph.D.	Biology	Cytogenetics; Cell Culture; Chromosome Mutations
Chung U. Park	Ph.D.	Biology	Environmental Science
James L. Rooney	Ph.D.	Biology	Parasitology
Mike Scott	Ph.D.	Biology	Physiological Ecology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Chemistry Education	Bachelors

**Laboratories and Other Facilities and Equipment:**

All of the specialty areas of chemistry use the same laboratory facilities. These facilities include two general chemistry laboratories, a physical chemistry/instrumentation laboratory; a quantitative analysis laboratory, an organic chemistry laboratory and one

research laboratory. Each of these laboratories is equipped with the equipment and instrumentation appropriate to its function.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Lelani Ramos	Ph.D.	Chemistry	Cancer Research
Marjorie Campbell	Ph.D.	Environmental	Professor of Engineering
Myung Chi	Ph.D.	Nutrition	Principal Investigator
Carol Gieske	Ph.D.	Nutrition	Assistant Prof/State Specialist
Hwei-Yiing Johnson	Ph.D.	Animal Sciences	Small Livestock and Genetics

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Criminal Justice/Administration	Sociology/Criminal Justice	Masters
	Law Enforcement	Bachelors
	Corrections	Associates

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Elizabeth Callahan	J.D.	Criminal Justice	Criminal Justice Policy

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	School Administration and Supervision	Bachelors
	School Teaching	Masters
	Reading Instruction	
	Guidance and Counseling	
	Teacher Education	

**Laboratories and Other Facilities and Equipment:**

The Department of Education has a math lab used by student teachers. Computer labs are available for all students as well. An Ethnic Studies Center in the University library supports the development of multicultural lessons.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Patrick Henry	Ph.D.	Education	Media; Teaching Methods-Secondary
Marilyn Hofmann	Ph.D.	Education	Math Education; Development of Math Teaching Strategies
Gouranga Saha	Ph.D.	Science Education	K-12 Science Education
Howard Miller	Ph.D.	Middle School	Technology in Middle School
Rebecca Belcher	Ph.D.	Special Education	Minority Recruiting in Special Education
Ginger Dickson	Ph.D.	Agency Counseling	Agency Counseling
Carolyn Magnuson	Ph.D.	Education	Counselor Education; Drug Abuse

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Accounting		Bachelors

**Laboratories and Other Facilities and Equipment**

1 Computer classroom with multi-media equipment. Business Computer Laboratory with 30 Gateway computers. 5 Classrooms with state of the art multi-media equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Marilyn Headrick	J.D.	Accounting	
Sherrie Koechling-Andrae	M.S.	Accounting	

Debbie Rankin          M.S.          Accounting

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Secretarial Science		Bachelors Associates

**Laboratories and Other Facilities and Equipment:**

One computer classroom with multi-media equipment. Business Computer Laboratory with 30 Gateway computers. 5 Classrooms with state of the art multi-media equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Betty Mudd	M.A.	Business Education	

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Public Administration		Bachelors

**Laboratories and Other Facilities and Equipment**

One computer classroom with multi-media equipment. Business Computer Laboratory with 30 Gateway computers. 5 Classrooms with state of the art multi-media equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Roberto Ike	Ph.D.	Public Policy	

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Marketing		Bachelors

**Laboratories and Other Facilities and Equipment**

One computer classroom with multi-media equipment. Business Computer Laboratory with 30 Gateway computers. 5 Classrooms with state of the art multi-media equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

James Logan	M.B.A.	Marketing	
-------------	--------	-----------	--

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
-------------------------	-------------------------	----------------------------

Economics		Bachelors
-----------	--	-----------

**Laboratories and Other Facilities and Equipment**

One computer classroom with multi-media equipment. Business Computer Laboratory with 30 Gateway computers. 5 Classrooms with state of the art multi-media equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

Ghodratollah Arabian	Ph.D.	Economics	Quantitative Methods and Forecasting
-------------------------	-------	-----------	---

Ogugua Anunoby	Ph.D.	Economics	Finance
----------------	-------	-----------	---------

James LePage	Ph.D.	Economics	Economics
--------------	-------	-----------	-----------

Kris Quartay	Ph.D.	Economics	Economic Development
--------------	-------	-----------	----------------------

<b><u>PROGRAM 10</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
--------------------------	-------------------------	----------------------------

Business Education		Bachelors
--------------------	--	-----------

**Laboratories and Other Facilities and Equipment**

One computer classroom with multi-media equipment. Business Computer Laboratory with 30 Gateway computers. 5 Classrooms with state of the art multi-media equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

Betty Mudd	M.A.	Business Education	
------------	------	--------------------	--

<u>PROGRAM 11</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business Administration		Masters Bachelors

**Laboratories and Other Facilities and Equipment**

One computer classroom with multi-media equipment. Business Computer Laboratory with 30 Gateway computers. 5 Classrooms with state of the art multi-media equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Kylar Broadus	J.D.	Research Specialist	Discrimination Law
Wayne Linhardt	M.Ed.	Business Administration	International Business/Marketing & Consumer Business
Tyrone Westergaard	M.B.A.	Business Administration	

<u>PROGRAM 12</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Journalism		Bachelors

**Laboratories and Other Facilities and Equipment**

Lincoln University has a laboratory, in its FM radio station, KLUM, which supports the department. Lincoln University also has a laboratory in the TV studio, JCTV, which serves both as an educational facility and as a production facility for the local access channel.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<u>PROGRAM 13</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer Science & Data Processing		Bachelors Associates

### **Laboratories and Other Facilities and Equipment**

Room 201, Damel Hall, consists of 15 IBM PCs that supports all computer classes. Room 203 Damel Hall, consists of 28 IBM PCs to be used for introduction to Micro-Computer classes. Room 305, Damel Hall consists of 15 IBM PCs that supports the computer graphic classes, and technology classes. Room 310, consists of 30 IBM PCs that support Advanced Computer and Programming courses. Room 306 has 26 PCs used for micro-Computer applications.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ruth Campbell	M.S.	Computer Programming	
Thomas Greninger	Ph.D.	Computer Engineering	
Ernest York	M.S.	Computer Science	
P. David Palangpur	B.S.	Computer Engineering	

<b><u>PROGRAM 14</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Technology & Industrial Education	Building Engineering Mechanical Technology Vocational Industrial Education Building Construction Drafting Technology Electronics Technology Mechanical Technology	Bachelors Associates

### **Laboratories and Other Facilities and Equipment:**

Room 103, Damel Hall, is a laboratory that supports the Electronics Technology classes. Room 305, Damel Hall consists of 14 IBM PCs that supports the CADD classes and other related courses.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Leon Stevens	Ph.D.	Computer Technology	
Michael Fessahaye	Ph.D.	Engineering	

<u>PROGRAM 15</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics	Math Education	Bachelors

**Laboratories and Other Facilities and Equipment**

The Mathematics program facility consists mainly of classrooms and one Mathematics laboratory. Each of the above specialties use these facilities. In addition, small-two computer-academic computer room is available to the students/faculty in the program; a limited amount of software is available.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Sivanandan Balakumar	Ph.D.	Mathematics	Change Point Detection
Scott Contois	M.S.	Mathematics	Real and Complex Analysis; Set Theory and Logic
Mary Kabiri	M.S.	Mathematics Education	Number Sense
William Rant	Ph.D.	Mathematics	Theory of Rings and Modules
Ruthi Strudevart	Ph.D.	Mathematics Education	Number Sense
Bernadette Turner	M.S.	Mathematics Education	Teacher Preparation
Nihal Siriwardana	Ph.D.	Mathematics	
Christina Morian	M.S.	Mathematics	

<u>PROGRAM 16</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Physics		Bachelors

**Laboratories and Other Facilities and Equipment**

The Physics program has three laboratories available, and these are equipped with the instrumentation and materials appropriate to the discipline.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Donald Babcock	M.S.	Physics	Study of Presumably Random Process
Donna Stallings	M.S.	Mathematics	
Albert White	M.S.	Mathematics	
Yogendra M. Kapoor	Ph.D.	Physics	Photo reflectance Spectroscopy and its Application to Semiconductor, Heterojunction Super lattice Multiple Quantum Wells

<b><u>PROGRAM 17</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Nursing Science		Associates

**Laboratories and Other Facilities and Equipment**

Two practical arts laboratories and one audiovisual center are utilized to support the educational activities of the program. Each practical arts room contains hospital beds, equipment, supplies, and mannequins to practice and demonstrate clinical skills. The audiovisual center contains student computer, audiovisual equipment and software.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Glenda Dahlstrom	M.S.N.	Nursing	Cancer Nursing; Pain
Darla Douglas	M.S.N.	Nursing	Intensive Care Nursing; Multi-Cultural Aspects of Health Care
Connie Hamacher	M.S.N.	Nursing	Cardiovascular Nursing; Ethics in Nursing
Wanda Hoelscher	M.S.N.	Nursing	Nursing Administration
Lois Jaegers	B.S.N.	Nursing	Pediatric Nursing
Cynthia Stotler	M.S.N.	Nursing	Domestic Violence
Angela Elley	B.S.N.	Nursing	
Pat Jentch	B.S.N.	Nursing	

Janet Long	M.S.N.	Nursing
Robin Harris	B.S.N.	Nursing
Kathi Marchiondo	B.S.N.	Nursing

**MISSISSIPPI VALLEY STATE UNIVERSITY**  
**Itta Bena, MS 38941**

**Contact: Dr. Roy C. Hudson**  
**Vice President for Administration**

**Telephone: (601) 254-9041**  
**Fax: (615) 327-6084**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Natural Science & Environmental	Biology Environmental Health	Masters

**Laboratories and Other Facilities and Equipment**

13,000 sq. ft. devoted to education, training, and research labs for natural sciences and environmental health exclusive of classroom space.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
B.S. Balam	Ph.D.	Soil Chemistry	Colloidal Absorption of Cations and Anions for Applications to Disposal of Low Level Radioactive Waste
J. Singh	Ph.D.	Pathology/Biochemistry	Determination of Solar Energy Resources for Inclusion in National Network Database, Water; Conserving & Preserving The Precious Resource
Joann Walker Shields	M.S./M.P.H.	Environmental Health	Indoor Air Pollutants; Unvented Gas Heaters in the Delta Homes

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics/Information Science	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

1,500 sq. ft. is devoted to the computer labs exclusive of the classroom space.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Industrial Technology	Industrial Technology	Bachelors

**Laboratories and Other Facilities and Equipment**

2,000 sq. ft. is devoted to architectural/electronics/graphics/robotics technology.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Minority Research	Bachelors

**Laboratories and Other Facilities and Equipment**

The science building consists of 43,000 sq. ft. of assignable space. The areas that are available for research include 3 well-equipped laboratories, an autoclarie and washroom; a controlled environment room, and instrument room, and an animal room equipped with an automatic exhaust system and air conditioning.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jarnail Singh	Ph.D.	Developmental Biology	Developmental Impact of C01 G02
Shirley A. Williams-Scott	Ph.D.	Physiology, Biophysics	Cortisol Prevention of Biryllium Lung Disease in Postpartum Rats
Mrs. Mildred Collins	M.S.	Zoology	Student Research and Seminar Activities

**Recent DoD/Other Contract/Grant/Procurement Experiences**

None indicated.

**MOREHOUSE COLLEGE**  
Atlanta, GA 30314

*Data from 1996*

<b>Contact: Dr. Joyce Nottingham</b> <b>Director for Institutional Research</b>	<b>Telephone: (404) 215-2688</b> <b>Fax: (404-) 659-6106</b>
--	---

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Pre-Health Profession	Bachelors

**Laboratories and Other Facilities and Equipment**

Cell Biology Laboratory, Environmental Biology Laboratory, Parasitology Laboratory, Sickle Cell Laboratory, and Genetics Laboratory

**Researchers: Academic Background and Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John K. Haynes	Ph.D.	Cell Biologist	Sickle Cell Anemia Research; Determination of Membrane Protein Changes in Sickle Cells

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

Microcomputer Graphics Laboratory, Microprocessing and Robotics Laboratory and Computer Terminal Room equipped with two 3v-1 5's, AT&T, eight 3B-2's, one Deck 2060, one Deck PDP 1144, Twenty AT&T 6310

**Researchers: Academic Background and Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Arthur Jones	Ph.D.	Mathematical Studies	ADA Research for DoD; Development Software for DoD, Non-Combat Purposes

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Psychology	Alcohol, Drug Abuse and Mental Health Administration-MARC	Bachelors

### **Laboratories and Other Facilities and Equipment**

Classrooms, seminar rooms and research laboratories for research and instructional components of program.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Margaret Weber-Levine	Ph.D.	Physiology	Alcoholism, Drug Abuse, Mental Health

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business & Economics	Banking & Finance	Bachelors

### **Laboratories and Other Facilities and Equipment**

Microcomputer Graphics Laboratory Microprocessing Robotics Laboratory, and Computer Terminal Room equipped with two 3 V-1 5's, AT&T, eight 3 B-2's, one Deck 2060, one Deck PDP 1144, and twenty AT&T 6310

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Willis Sheftall	Ph.D.	Economics	Fluctuations in Aggregate Production

### **Recent DoD/Other Contract/Procurement Experience**

**Agency:** Martin Marietta, Energy Systems  
**Funding Level:** \$62,494.00 **Year:** 3 year  
**Project Director:** Dr. Art Jones  
**Title of Project:** Reusable ADA Library Data Management

**MORGAN STATE UNIVERSITY  
Baltimore, MD 21251**

**Contact: Dr. De Lois M. Powell**

**Telephone: (443) 885-3447 x 4158**

**Assistant Director Office of Sponsored  
Programs**

**Fax: (443) 885-8280**

**Email: dpowell@moac.morgan.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology Medical Technology/Clinical Laboratory Sciences	Anatomy/Physiology; Microbiology; Zoology; Immunology; Cell/Molecular; Bioenvironmental Science Biology; Clinical Microbiology & Immunology/Serology, Medical Technology, Clinical Hematology	Bachelors in Biology Bachelors in Biology- MT/CLS Masters in Science Masters in Science - Biology; Doctorate in Bioenvironmental Science-Environmental Science, Toxicology, Biotechnology & Health Sciences

**Laboratories and Other Facilities and Equipment**

The current Science Complex, in conjunction with the new Richard N. Dixon Science Research Center, provides state-of-the-art research laboratories in the areas of biotechnology, immunology, neuroscience, histology, toxicology and physiology. Supporting equipment includes: High Performance Liquid Chromatography System (HPLC); Liquid Scintillation Counters; Electrophoresis Apparatus; Fluorescence and Phase-contrast Microscopes; Oscilloscopes; Incubators and Refrigerated Centrifuges.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Arthur L. Williams	Ph.D.	Molecular Biology	Gene Expression Analysis Via Micro-Arrays and Nanotechnology
Dwayne Hill	Ph.D.	Toxicology	Immuno-Toxicities Following Exposure to Environmental Contaminants

Cleo Hughes-Darden	Ph.D.	Microbial Physiology	Hypertension and Sleep Induced Stress
Casonya Johnson	Ph.D.	Genetics	Protein Function by Reverse Genetics
James Wachira	Ph.D.	Immunology/Bioinformatics	Effect on Knases and Hypertension; Receptor Biochemical Mechanisms
Kenneth Samuels	Ph.D.	Biochemistry	Characterization of HIV Proteins
Lisa D. Brown	Ph.D.	Physiology	Plasticity of Gene Expression in Single Adult Skeletal Muscle Fibers
LaVentrice D. Taylor	Ph.D.	Physiology	T-Cell Response
Christine Hoffman	Ph.D.	Neuroscience	Developmental Disorders of the Brain
Michael Koban	Ph.D.	Zoology/Physiology	Sleep Deprivation Stress Response
Gabrielle McLemore	Ph.D.	Pharmacology	Neurochemistry of Withdrawal Behavior in Rats
Aiah Gbakima	Ph.D.	Immunoparasitology	Immunodiagnostics
Frank Weichold	Ph.D.	Immunology	Environmental Immunopathologies; Immunotherapy
Frank Denaro	Ph.D.	Neuroscience	Neurodegeneration & Regeneration
Richard Ochillo	Ph.D.	Pharmacology	Toxicological, Pharamacodynamics of Autonomic & Cardiovascular Agents
Sanjeeda Jafar	Ph.D.	Virology	Viral Replication

**PROGRAM 2**

Chemistry/Pre-Professional in Chemistry

**SPECIALTY**

General; General/Qualitative Analysis; Organic; Inorganic; Physical; Environmental & Polymer Chemistry; Biochemistry

**DEGREE LEVEL**

Bachelor in Chemistry  
Masters in Science in Science-Chemistry  
Doctorate in Bioenvironmental

### **Laboratories and Other Facilities and Equipment**

The Chemistry Department is housed in the Science Complex. Modern facilities are equipped with state-of-the-art laboratories that allow chemistry to continue to be at the cutting edge in the areas of biotechnology, material science and bioenvironmental science. In their laboratories, chemistry faculty collaborate across disciplines/departments in the conduct of research in the areas of chemical- and bio-sensors development and characterization, investigation of novel sensors delivery systems, laser ablation, x-ray diffraction and nanotechnology and its applications.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Alvin P. Kennedy	Ph.D.	Physical Chemistry	Monitoring Polymerization Reactions and Processing Under Microgravity
Yousef M. Hijji	Ph.D.	Organic Chemistry	Microwave in Organic Synthesis
Angela Winstead	Ph.D.	Organic Chemistry	Novel Attachments of Fluorophores

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Richard J. Williams	Ph.D.	Analytical Chemistry	Luminescent Chemical Probes for Biomedical and Environmental Use
Emanuel Waddell	Ph.D.	Analytical Chemistry	Laser Ablation of Polymer Substrates
Maurice O. Iwunze	Ph.D.	Analytical Chemistry	Sol-Gels as Chemicals and Biosensors
Lawrence Seibles	Ph.D.	Physical Chemistry	Chemical/Biological Sensors/Probes

Elizabeth Arinyele	Ph.D.	Organic Chemistry	Synthesis of Organic Substances
Gregory Haynes	M.S.	Biochemistry	Enzyme Mechanism; Optical Electronics
Roosevelt Shaw	Ph.D.	Organic Chemistry	Molecular Modeling; NMR

### **PROGRAM 3**

Physics/Engineering Physics

### **SPECIALTY**

Condensed Matter Nuclear and Biophysics; Astronomy & Space Science; Earth Science; Digitized Image Processing

### **DEGREE LEVEL**

Bachelors in Physics, Engineering Physics; Masters in Science-Physics

### **Laboratories and Other Facilities and Equipment**

Current laboratories within the Science Complex house supporting equipment to include: Mössbauer spectroscopy, x-ray diffraction, torque and vibrating magnetometers, magnetic thin films, Digitized Scanning Electron Microscopy and laser research and computational applications.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Frederick W. Oliver	Ph.D.	Nuclear Physics	Mossbauer on Magnetic Films
Conrad M. Williams	Ph.D.	Solid State Physics	Magnetic Oxide Thin Films
Eugene Hoffman	Ph.D.	Cellular Biophysics	Mossbauer Spectral Analysis of the Colony Meteorite
Ernest Hammond	M.S.	Laser Physics	Characterization of Cosmic Samples
Dereje Seifu	Ph.D.	Physics	Nano-Structured Thin Films
Windsor A. Morgan	Ph.D.	Physics	Computational Applications
Aradhya Kumar	Ph.D.	Biophysics	Mossbauer Effect; Chaos & Complexity in Biological Systems
Richard Lockhart	Ph.D.	Physics	Statistical Mechanics; Polymers

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics	Topology; Algebraic Deformation Theory, Paralleled Processing; Enumeration & Algebraic Combinatorics	Bachelors Masters in Mathematics

### **Laboratories and Other Facilities and Equipment**

The Department houses a computer/mathematics laboratory with 16 workstations available for teaching and research purposes.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Gaston M. N'Guerekata	Ph.D.	Mathematics	Abstract Differential Equations; Almost Automorphic Functions
Asamoah Nkwanta	Ph.D.	Discrete Mathematics	Enumerative Combinatorics
Remi Ombolo	Ph.D.	Mathematics	Algebraic Deformation Theory
Bhamini M. P. Nayar	Ph.D.	Mathematics	Point Set Topology Analysis
Shurron M. Farmer	Ph.D.	Mathematics	Mathematical Biology
Xsiao-Xiong Gan	Ph.D.	Applied Mathematics	Formal Power Series; Universal Theory
Arthur D. Grainger	Ph.D.	Mathematics	Non-Standard Analysis; Ultra Filters; Topological Semi-Groups
Ki Yoong Kim	Ph.D.	Mathematics	Topology
Alimany Koroma	Ph.D.	Mathematics	Information Theory
Joyce Myster	M.S.	Mathematics	Mathematics Education
Shirly Russell	M.S.	Mathematics	Polynomial Functions
Ahlam Tannouri	Ph.D.	Applied Mathematics	Environmental Mathematics; Computer Graphics; Mathematical Modeling
Leon Woodson	Ph.D.	Mathematics	Combinatorics; Algebraic Topology

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science	Computer Architecture; Software Engineering; Artificial Intelligence; Automata Theory	Bachelors in Computer Science; Masters

### **Laboratories and Other Facilities and Equipment**

Within the Computer Science Department, there is 24-hour access to academic computing laboratories and daytime access to a multimedia classroom. Available equipment includes the most recent models of popular microcomputers and UNIX workstations. Additionally, there is a wide variety of instructional software for text, graphics and design, including access to Blackboard. All machines are connected to a campus network allowing access to all campus servers (including a Silicon Graphics server dedicated to majors) and access to the Internet. Extensive dial-in capabilities allow use of campus facilities from remote sites.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
William Lupton	Ph.D.	Computer Science	Software Engineering; Super Computing; Expert Systems
Samir Tannouri	Ph.D.	Computer Science	Computer Graphics; Virtual Reality
Jan Smid	Ph.D.	Computer Science	Theories of Intelligent Agents

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business and Management	Accounting & Finance; Business Administration; Entrepreneurship; Marketing Management; Hospitality Management; Informational Sciences & Systems	Bachelors in Specified Areas Minor in Entrepreneurship MBA - Concentrations in Accounting, Finance, Hospitality Management, Information Technology, International Business, Management & Marketing; Doctorate in Accounting; Business Administration

## **Laboratories and Other Facilities and Equipment**

The Earl Graves School of Business and Management is located the McMechen Building with its fully equipped modern facilities, to include a Video-conferencing Center and computer laboratories. An Office of Corporate Relations maximizes support for the SBM from private sector corporations, foundations, alumni and friends, and promotes SBM external relations initiatives.

## **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
<b><u>Accounting and Finance</u></b>			
Sharon Gary Finney	Ph.D.	Accounting	Financial Accounting & Accounting Ethics
Traci Allotey	Ph.D.	Applied Economics	Risk Management & Insurance
Makkawi Bilal	Ph.D.	Accounting	Auditing and Behavioral Research
Alex P. Tang	Ph.D.	Finance and Banking	Convertible Securities Redemptions; Corporate Layoffs
Gladson I. Nwanna	Ph.D.	Financial Economics	Rural and Managerial Finance
Huey-Lian Sun	Ph.D.	Accounting and Finance	Corporate Financial and Managerial Reporting
Leo U. Ukpong	Ph.D.	Energy Economics & Finance	Commodity and Foreign Exchange Products
<b><u>Business Administration</u></b>			
Fikru H. Boghossian	Ph.D.	Business Administration	Marketing; Management
Agustus Abbey	Ph.D.	Business Administration	Technological Innovations
Franklin A. Manu	Ph.D.	Marketing	International Marketing
Karen A. Proudford	Ph.D.	Management	Group & Inter-Group Dynamics, Diversity & Conflict
Rodney L. Stump	Ph.D.	Marketing	Inter-Organizational Relationships; International Marketing

Michael Callow	Ph.D.	Marketing	Cross-Cultural, Global Marketing
Timothy Edlund	Ph.D.	Business Administration	Strategic and Public Affairs Management; Business & Society
Soon-hoon Lee	Ph.D.	Business Administration	Human Resource Management; Entrepreneurship
Joan Spiral	Ph.D.	Business Administration	Marketing; Advertising
Bill Vroman	Ph.D.	Business Administration	Strategy; Information Tech

**Informational Science & Systems**

Ali F. Emdad	Ph.D.	Information Systems	Intelligent Scheduling Systems; Simulation & Modeling
Dennis K. Agboh	Ph.D.	Information Systems & Operations Research	Digital Simulation & Technology, Production Information
Muhammed A. Badamas	Ph.D.	Computer Science	Quantitative Analysis and Operations; Network Systems and Security; Technology Transfer
Ganesh D. Bhatt	Ph.D.	Information Systems	Knowledge & Technology Management
Karen E. Bland	Ph.D.	Information & Decision Systems	Educational Technology; Cognitive Sciences; Lerner Strategies
Anthony Wilborn	Ph.D.	Information Systems	Technology Management

**PROGRAM 7**

**SPECIALTY**

**DEGREE LEVEL**

Engineering	Civil; Electrical & Computer; Industrial, Manufacturing & Information Engineering	Bachelors in Engineering Masters & Doctorate in Electrical
-------------	---	---

**Laboratories and Other Facilities and Equipment**

The New Engineering Complex with state-of-the-art equipment and laboratories houses the various engineering specialties, composite Centers and a classroom for distance education. The new “Center of Advanced Microwave Research and Applications” (CAMRA) supports a NASA mission to expand knowledge of the Earth and its environment, the solar system and the universe through space observations. Center

laboratories are equipped with state-of-the-art analytical and sampling tools and workstations to include a impedance analyzer, semiconductor parameter analyzer; sampling oscilloscope, cryogenic test station and lasers. The microwave laboratory is comprised of 2 EM shielded rooms with HP Unix Workstations with appropriate facilitation software. The characterization laboratory has on-wafer (die) microwave testing capabilities and is equipped with a Network Analyzer. Fabrication facilities house an ion etcher, UV Spectrometer and photo aligner. Other Laboratories and facilities are summarized below.

### **Morgan State University**

- |   |                                       |
|---|---------------------------------------|
| -CAE/Robotics Lab                       | -Micro electric Materials Lab         |
| -Computer Engineering Systems Lab       | -Microwave Engineering Lab            |
| -Communications Electronics Lab         | -Computer Modeling and Simulation Lab |
| -Energy Conversation Lab                | -Digital Systems/Microprocessor Lab   |
| -Industrial Technologies Lab            | -Structure Lab                        |
| -Instructional Television Facilities    | -Geotechnical Engineering Lab         |
| -Instructional Television Facilities    | -Geotechnical Engineering Lab         |
| -Fluid Mechanics Lab                    | -Environmental Engineering Lab        |
| Micro electric Fabrications/Testing Lab |                                       |

**Civil Engineering** - concentrations include applied mechanics, environmental engineering, geomechanics, geotechnical engineering, groundwater hydrology, hydrology, infrastructure engineering, structural engineering, structural mechanics and transportation engineering.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Reginald L. Amory	Ph.D.	Structural Mechanics	Transportation Technology
Iheanyl E. Eronini	Ph.D.	Mechanical Engineering	Mechatronics; Adaptive Structures
Indranil Goswami	Ph.D.	Structural Engineering	Structural Design & Earth Quake & Wind Finite Elements
Arcadio Sincero	Ph.D.	Environmental Engineering	Water Quality Modeling; Application of Electron Beam to Hazardous Waste Destruction

Gbekeloluwa Oguntimein	Ph.D.	Environmental Biotechnology	Enzymatic & Biochemical Biotech
Jiang Li	Ph.D.	Civil Engineering	Mechanics & Behavior of Sub grade Soils Under Traffic-Induced Loading
Robert Johnson	Ph.D.	Neutral Networks	Environmental Geology & Technology
Donald C. Helm	Ph.D.	Geological Engineering	Geotechnical; Geohydrology
Manoj Jha	Ph.D.	Transportation Engineering	GIS; Highway Design
<b><u>Electrical and Computer Engineering</u></b>			
Pamela Mack	Ph.D.	Electrical Engineering	Engineering Education
Carl White	Ph.D.	Engineering	Microwave
Arlene Coles-Rhodes	Ph.D.	Image and Signal Processing	Communication; Image Registration Detection Methods
Craig Scott	Ph.D.	Electrical & Computer	Semiconductors; Nano-Tool Development; Computer Security
Peter H. Anderson	M.S.	Electrical Engineering	Embedded Processor Design & Control; Computerized Control & Instrumentation
Charles T. Johnson-Bey	Ph.D.	Electrical Engineering	System Modeling; Digital Signal Processing Architectures; Algorithms for Image Processing
Gee In Goo	Ph.D.	Electrical Engineering	Bionic Sonar; Real-time Image Processing; Neural Networks
Jeyasingh Nithianandam	Ph.D.	Electrical Engineering	Microwave Circuits; Solid State Electronics; Electronic Materials
James E. Whitney, II	Ph.D.	Electrical Engineering	Biomedical Signal Processing; Embedded Parallel Signal Processing

**Industrial, Manufacturing and Information Engineering**

S. Keith Hargrove	Ph.D.	Manufacturing Engineering	Statistical Applications in Manufacturing; Systems Design; Six Sigma & Engineering Education
Seong Lee	Ph.D.	Industrial Engineering	Energy Systems Design; Simulation & Modeling; Environmental Control Technologies
Guangming Chen	Ph.D.	Industrial Engineering	Environmentally Conscious Design and Manufacturing; Robust Design
Tridip Bardhan	Ph.D.	Industrial Engineering	Manufacturing; Production; Systems; Scheduling
Bheem Kattel	Ph.D.	Industrial Engineering	Environmentally Conscious Design and Manufacturing; Robust Design
Masud Salimian	Ph.D.	Industrial Engineering	Distance Learning; Multimedia Design; Manufacturing Processes; Rapid Prototyping

**PROGRAM 8**

National Transportation Center

**SPECIALTY**

Interdisciplinary Program  
 Transportation Planning;  
 Traffic Engineering;  
 Transportation Information Systems; Urban Public Transportation & Freight Transportation & Logistics

**DEGREE LEVEL**

Masters in Transportation

**Laboratories and Other Facilities and Equipment**

A close collaboration between education and research offers concentrations in passenger/goods transportation planning and management, traffic engineering and transportation information systems.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Andrew Farkas	Ph.D.	Transportation	Economics; Land Use; Urban Planning
Charles Carter	Ph.D.	Business	Transportation; Real Estate
Anthony Saka	Ph.D.	Transportation Engineering	Traffic Engineering; GIS; ITS; Air Quality
Young-Jae Lee	Ph.D.	Transportation Engineering	Transit Network Evaluation, Vehicle Information & Management Systems
Randal L. Reed	Ph.D.	Transportation	Impact of Transportation Regulations - Air & Sea Port

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Public Health Program	Social Epidemiology & Biostatistics; Behavioral Health Promotion/Disease Prevention; Environmental Health; Health Services Planning, Management & Policy	Masters & Doctorate in Public Health

**Laboratories and Other Facilities and Equipment**

Required internships, in governmental or non-governmental health agencies, health institutes, or academic units and programs of public health, offer opportunities to engage in research or community practice experiences working with ongoing research or community projects.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Yvonne Bronner	ScD., R.D., L.D.	Public Health	Food, Nutrition & Obesity; Urban Health Issues
Rena Boss-Victoria	Ph.D.	Public Health	Director, Center for HIV Prevention
Mian Hossain	Ph.D.	Biostatistics	Maternal & Child Health; Youth Violation; Substance Abuse & HIV/AIDS

Randy Rowel	Ph.D.	Public Health	Community Health; Health Communication; Emergency Management
Dorothy Browne	Ph.D.	Public Health	Director, Drug Abuse Research Center; Health Disparities Solutions

**MORRIS BROWN COLLEGE**  
**Atlanta, GA 30314**

**Contact: Dr. Gloria Anderson**  
**Academic Dean**

**Telephone: (404) 739-1290**  
**Fax: (404) 739-1291**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	General, Biochemistry Cell Biology, Basic Research Minority Biomedical Research Supports Allied Health Community Technology	Bachelors

**Laboratories and Other Facilities and Equipment**

Scanning electron microscope, ultra centrifuges, isotope counters, phase-contrast microscopes and scintillation counters, three well-equipped teaching laboratories. Photographic Darkroom, and Scanning Electron Microscope, Preparation Room; Two research laboratories equipped for stationary culture storage, centrifugation, storage glassware and supplies, electrophoresis and culturing.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mustapha Durojaiye	Ph.D.	Biology	Electron Microscopic Studies of Protozoan; Microbial Ecology; Ultra structural Studies of Microbiology; Effects of Narcotic Drugs on Protozoan Systems

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	General, Biochemistry Polymer, Basic Research	Bachelors

### **Laboratories and Other Facilities and Equipment**

The laboratories include a module controller, differential scanning calorimeter, the teaching laboratories; two research laboratories; and two multipurpose (chemical preparation) laboratories; Major items of equipment; three gas chromatographs, three infrared spectrophotometers and four pH meters.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Fred Okoh	Ph.D.	Chemistry	Synthetic Techniques for Advanced Propellant Ingredients
Gloria Anderson	Ph.D.	Chemistry	Thermal Analysis of Polymeric Materials
Leroy Frazier	Ph.D.	Chemistry	Organosulfone Compounds

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics Dual Degree Engineering	Computer Science/Engineering Chemistry Computer Science Mathematics Physics	Bachelors

### **Laboratories and Other Facilities and Equipment**

Electronic classroom consisting of microcomputers, i.e. IBM XT's, Apple II's Apple Macintoshes, Burroughs ET2000 and IBM PC's.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Silas Bassey Edet	Ph.D.	Computer Science	Stochastic Processes; Stochastic Demography Chaotic Dynamics and Fractal Groups
Amir H. Barzegar	Ph.D.	Mathematics	Topological Transformation Syntopogenous Uniform Structures; Algebraic Structures

Abielo K. Lwal	Ph.D.	Mathematics	Electrophoresis; Smooth Muscle Contraction Entomological Physiology; Bioengineering/ Biostatistics, (Hypertension Among Blacks)
John Hwang	Ph.D.	Mathematics	Polynomials; Class Numbers of Class Groups Extensions Fields

**PROGRAM 4**

Psychology

**SPECIALTY**

Basic Research  
Biomedical  
General

**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

Laboratory consisting of adjacent animal testing rooms, an animal facility, surgery and histology room, photo darkroom, computerized operant conditioning lab and computer equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jeanne M. Stahl	Ph.D.	Psychology	Brain/Damage; Brain, Behavioral Development in Rats; Physiological Psychology; Neuropsychology; Behavioral Genetics; Animal Learning Problems Solving; Developmental/Comparative Psychology; Hormones Behavior; Psycho-Pharmacology, and Nutrition
Fernando A. Gonzale	Ph.D.	Psychology	Quantitative Psychology; Experimental Analysis of Behavior; Behavioral Pharmacology; Cardiovascular Effects of Behaviorally Active Drugs

<u>PROGRAM 5</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business Administration	Accounting Management Marketing	Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Clyde A. Pailsey	Ph.D.	Business Administration	
Benjamin Strickland	M.B.A.	Business Administration/ Computer Science	Computer System Const.
Wilton Heylieger	Ph.D.		Business Administration/CPA Banking/Small Business Forecasting

<u>PROGRAM 6</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Economics	General	Bachelors

**Laboratories and Other Facilities and Equipment**

Shares Laboratories with Computer Science, Mathematics, and Physical Science.

<u>PROGRAM 7</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computing & Information Sciences	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

Burroughs B5920 mainframe system with 3.5 megabytes disk processor, 804 million bytes fixed disk drive and 80 KB magnetic tape system; Burroughs CP9500 super mini with 160 million bytes of fixed drive, a cognitive systems laboratory featuring a network of an assortment of microcomputers, includes Burroughs

ET 2000 intelligent terminals, IBM, PC, XT's and AT's, Apple II's, Apple Macintosh, and Burroughs B20/25 WS powerful micros; a laboratory featuring Micro Van II and 71million bytes of fixed disk drive, and assortment of logic modules; an IBM Micro Computer laboratory featuring a cluster of IBM PC's and other peripheral.

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Fine Arts	Architecture	Bachelors
	Art Education	
	Fashion Design	
	Printmaking/Advertising Design	
	Design	
Dual Degree Architecture	Landscape	
	Industrial Design	
	Building Construction	

**Laboratories and Other Facilities and Equipment**

Architecture: New program that are jointly sponsored by Morris Brown, Georgia Institute of Technology and University of Georgia; faculty and facilities are shared, students will receive a degree from each Institute.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Donald Blair	M.A.	Architecture	Historic Preservation Issues
Lee A. Ransaw	Ph.D.	Fine Arts	

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Science	Criminal Justice	Bachelors
	Paralegal Studies	
	General	

**Laboratories and Other Facilities and Equipment**

Select students are members of the Morris Brown College Mock Trial Team. These students participate yearly in the United States National Mock Trial Competition and have continually placed each year.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Nasrolah R. Farokhi	Ph.D.	Social Science	Urban Politics and Policy Leadership Role and the Influence of the Atlanta Chamber of Commerce Criminal Justice
Johnnie D. Myers	Ph.D.	Law/Paralegal	Urban Legal Studies
William Shephard	J.D./L.L.M.	Law/Paralegal	Urban Legal Studies

<b><u>PROGRAM 10</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Hospitality Administration	Hospitality Restaurant Management	Bachelors

**Laboratories and Other Facilities and Equipment**

Present laboratory facilities include a modern well-equipped commercial kitchen and an excellent adjacent dining room. Junior year students are given the opportunity to do an eight-week internship either in the U.S. or the Caribbean under the Caribbean Learning Experience (CARIBLEX) Program.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** Department of Defense  
**Funding Level:** \$98,681.60 **Year:** 1991-1992  
**Project Manager:** Mr. Alton P. Jensen  
**Title of Project:** U.S. Army Research (MBRI)

**Agency:** Department of Defense  
**Funding Level:** \$112,553 **Year:** 1991-1992  
**Project Manager:** Dr. Issiffu I. Harruna  
**Title of Project:** Research on Molecular Control of Liquid Crystalline Orientation of PBO and PBT

**NORFOLK STATE UNIVERSITY**  
**Norfolk, VA 23504**

<b>Contact: Paula R. D. Shaw</b> <b>Director, Office of Sponsored Programs</b>	<b>Telephone: (757) 823-9053</b> <b>Fax: (757) 823-2823</b> <b>Email: pshaw@nsu.edu</b>
---	---

**INSTITUTIONAL RESEARCH CAPABILITIES STATEMENT**

Norfolk State University has established the goal of being a science and technology powerhouse. In pursuit of this vision the University has prioritized materials research, information technology, information assurance and the Research and Innovations to Support Empowerment (RISE) Center for infrastructure development and an infusion of resource support.

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Liberal Arts		

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Science & Technology		

**Laboratories and Other Facilities and Equipment**

Laser Lab, Crystal Growth Lab, Polymer/Synthesis Lab, Electron Spin Resonance Lab, Nuclear Magnetic Resonance Lab, Thin Films Lab, Laser Lab II, Materials Science Lab and Characterization Lab.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business		

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 4**

**SPECIALTY**

**DEGREE LEVEL**

Education

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 5**

**SPECIALTY**

**DEGREE LEVEL**

Social Work

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experiences**

The Center for Materials Research has received over \$26,000,000 in awards from DoE, NASA, NSF, DoD and a variety of other sponsors in support of research conducted in nine established materials laboratories.

(A more comprehensive response detailing program areas, labs, researchers, credentials, equipment & funding is forthcoming.)

**NORTH CAROLINA A&T STATE UNIVERSITY  
Greensboro, NC 27411**

*Data from 1996*

**Contact: Dr. Ernestine Psalmonds  
Vice Chancellor for Research**

**Telephone: (910) 334-7995**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Ultrastructure Research	Bachelors

**Laboratories and Other Facilities and Equipment**

Radiation Laboratory is equipped with two electron microscopes, a herbarium, and three walk-in environmental control rooms.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James Williams	Ph.D.	Biology	Biology, Cellular
David Aldridge	Ph.D.	Biology	Zoology; Toxicology; Ecology; Membrane Structure/Fracture; Environmental Effects; Water Pollution; Animal Psychology Morphology
Thomas Jordan	Ph.D.	Biology	Bacteriology; Microbiology; Biochemistry
Joseph Whittaker			
Roy Coomans	Ph.D.	Botany/Biology Evolutionary	Botany; Biology Developmental/
William Mitchell			
Andrew Goliszek	Ph.D.	Physiology	Biological Sciences; Endocrinology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Magnetic Resonance Spectroscopes and	Bachelors

Magnetism  
Applied Electrochemistry  
Organic Synthesis  
Reaction Kinetics

### **Laboratories and Other Facilities and Equipment**

Research equipment for the department of Chemistry consists of the following: Par Electrochemistry System; Pine Instruments Bipotentiostat with RRDE and RDE; Electron Spin Resonance Spectrometer (Varian E109); GC-Mass Spectrometer (Hewlett Packard) High Speed Centrifuges; NMR Spectrometers (60 & 90 MHz); FTIR's (Mattson Galaxy and Cygnus 100); Spectrometers (Diode Array, Fluorescence and UV-VIS); HPLC; Elemental Analyzer (Carb Erbert).

The major area of research emphasis for the Chemistry Department is biomedical science. Currently there are four biomedical related projects in the department. Three of these are funded by the National Institutes of Health for a total of \$600,000+. These projects involve the synthesis and characterization of models for metalloproteinase and the isolation, separation and purification of protein systems. Expertise required for these projects include spectroscopy (electron spin resonance, uv-electrochemistry, centrifugation and chromatography

The second area of research expertise is in the area of material science. Our capabilities include the ability to make microwave measurements and study surfaces, using FT infrared spectroscopy.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Kenneth Hicks	Ph.D.	Chemistry	Chemical Reactions; Chemical Synthesis; Inorganic Chemistry; Physical Chemistry
Evans Booker	Ph.D.		
Vallie Guthrie	Ph.D.		
Jothi Ramasamy Kunar	Ph.D.		Bioprocessing/Thermal Characterization of Fossil & Biofuels; Catalysis/Kinetics; Electrochemistry; Resonance Spectroscopy

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** U.S. Department of the Air Force  
**Funding Level:** \$28,000 **Year:** 1990-1993  
**Project Director:** Dr. Ajit Kelkar  
**Title of Project:** Analysis of Composites Laminates Subjected to Low Velocity Impact Loading

**NORTH CAROLINA CENTRAL UNIVERSITY**  
**Durham, NC 27707**

**Contact: Dr. Franklin B. Carver**  
**Assistant Vice Chancellor for**  
**University Programs**

**Telephone: (919) 530-7371**  
**Fax: (919) 530-7962**  
**Email: fcarver@wpo.nccu.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biomedical-Biotechnology Research Institute (BBRI)	Cardiovascular Disease Neuroscience Drug Abuse and Addiction Cancer/Environmental Toxicology Genomics	Bachelors

**Laboratories and Other Facilities and Equipment**

Eleven (11) modern research laboratories plus warm rooms, cold rooms, genomics, molecular genetics, bioinformatics, genotyping, cell culture, and structural biology cores. Modern Animal Resources Complex, and a Visualization and Imaging Laboratory. Equipment includes Thermal Cyclers, a DNA Sequencer, a Confocal and Fluorescence Microscopes, Spectrophotometers, Centrifuges, Gel Electrophoresis Units, HPLC Units.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ken Harewood	Ph.D.	Biochemistry	Cancer Biology, Molecular Genetics
Richard Bukoski	Ph.D.	Physiology	Hypertension
Allyn Howlett	Ph.D.	Pharmacology/Toxicology	Pharmacology
Derek Norford	Ph.D./DVM	Comparativ Biomedical Sci.	Cell Biology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics	Nanotechnology Semiconductors Spectroscopy Computational Physics	Bachelors

Nuclear Physics  
Environmental Physics

**Laboratories and Other Facilities and Equipment**

Electron gun with the following characteristics: a pulsed, electron beam driven, interaction devices for producing broadband pico second pulses, in the range from 3 to 30 cm-1. It has an electron beam energy between 0.6 and 1.3 MeV, with an average current of 200 mA, peak current of 20 A, an emittance of  $3.5 \pi$  mm-mrad, a pulse length of 5  $\mu$ s containing micropulses of 1-ps long at a repetition rate of 2.853 GHz. The peak power in each micropulse can be of the order of kW. The Chamber for pulsed electron gun and pulsed laser deposition of nanostructured and thin film materials, such as quantum dots. Two generators of cw radiation based on backward wave oscillator technology, with radiation in the frequency range 118-178 GHz and 258-375 GHz, and with possibility to generate higher frequencies by outcoupling the enhanced harmonics.

Deep Level Transient Spectroscopy (DLTS), Atomic Force Microscope, Hall Effect, Thermo Stimulated Current (TSC), Internal Photoemission, I-V, C-V, Two 100W CW Argon lasers, 5W CO<sub>2</sub> laser.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Branislav Vlahovic	Ph.D.	Physics	Nanotechnology; Quantum Dots, Thin Films Semiconductors: Photovoltaic Cells Computational Physics: Few Body Calculations, Nuclear Structures, Charge Transport in Quantum Systems Nuclear Physics: Low and Intermediate
Kinney Kim	Ph.D.	Physics	Nuclear Physics: Low Energy Environmental Physics
Benjamin Crowe	Ph.D.	Physics	Nuclear Low Energy Physics
Jyotsna M. Dutta	Ph.D.	Physics	Solid State Physics: Spectroscopy
Vladimir Suslov	Ph.D.	Physics	Computational Physics: Few Body Calculations, Nuclear Structures. Charge

Igor Filikhin	Ph.D.	Physics	Transport Computational Physics: Few Body Calculations, Nuclear Structures, Charge Transport
Vesna Borjanovic	Ph.D.	Physics	Semiconductors Physics: Photovoltaic Cells
Eugene Denevka	Ph.D.	Physics	Semiconductors Physics: Photovoltaic Cells
Kai Wang	Ph.D.	Physics	Material Science: Thermal Stress

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Drug Design and Synthesis	Bachelors Masters

### **Laboratories and Other Facilities and Equipment**

Laboratories equipped to conduct the design, synthesis, isolation and purification, and characterization of organic compounds that may be useful in treating disease on humans.

Varian INOVA Plus 300-MHz NMR; JEOL JNM-MY60 60-MHz NMR; Shimadzu FT-IR 8900; HP-8453 Diode Array UV-Vis Spectrophotometer; PE-LS30 Luminescence Spectrophotometer; Cary Eclipse Spectrofluorometer; BLC 20 HPLC with UV and Fluorescence Detectors; HP 1050 System HPLC with Variable UV and Diode Array; an assortment of other HPLC, LC and GC Systems; HP-6890 GC/MS, HP-5890 GC + HP-1090 LC + HP-5970-MS; PE-341 polarimeter; Rainin PS3 Peptide Synthesizer; 888-CE CHNS Elemental Analyzer, CE Elantech, Inc., and a Parr Hydrogenation Apparatus.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Wendell Wilkerson	Ph.D.	Organic Chemistry	Cardiovascular CNS Anti-Inflammatory Anti-HIV/AIDS
Robert Izydore	Ph.D.	Organic Chemistry	Anti-Cancer
James A. Myers	Ph.D.	Analytical Chemistry	Anti-Cancer
Saundra DeLauder	Ph.D.	Organic Chemistry	Hair Analysis: Markers for Environmental Toxicology

**PROGRAM 4**

Biology

**SPECIALTY**BS with Concentrations in  
Pre-Med, Pre-Dentistry  
Biotechnology  
Concentration  
Secondary Education**DEGREE LEVEL**Bachelors/Masters  
Masters with Thesis  
Option (Research)  
Master with Non-  
Thesis Option**Laboratories and Other Facilities and Equipment**

10-12 faculty research laboratories that house various major instrumentation, namely electron microscopy, high performance liquid chromatography, gas chromatography, DNA sequencing, thermocyclers, computerized molecular biology instrumentation for DNA analysis. Laboratories are also equipped with biosafety hoods, media preparation equipment. The department has had historically a greenhouse, but it has not been renovated and equipped for research purposes.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Amal Abu-Shakra	Ph.D.	Biochemical Toxicology	Oxidative Damage and Cytokine Analysis, Bioinformatics
John Clamp	Ph.D.	Zoology	Systematics, Ultrastructure, Morphogenesis of Ciliates
Vernon Clark	Ph.D.	Cell Physiology & Biochemistry	Anaerobic Metabolism
Gail Hollowell	Ph.D.	Molecular Biology	Gene Expression and Regulation, Infectious Disease
Jonathan Ladapo	Ph.D.	Microbiology	Anaerobic Degradation of Chlorophenol in the Environment
John Mayfield	Ph.D.	Biology/Mycology	Clinical Significance of Airborne Fungal Spores, Microorganism/Forest Ecosystems
Veronica Nwosu	Ph.D.	Microbiology	Benzene Activation of the v-Ha-ras Transgene; Leukemia in Tg.AC mice
Dorothy Wood	Ph.D.	Pathology	Imidazoline Receptors; Novel Drug Discovery; Antimicrobial Agents
Sandra White	Ph.D.	Microbiol/Immuno	Cancer Biology and Immunology

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Geography	Geographic Information Systems	Bachelors Masters

### **Laboratories and Other Facilities and Equipment**

The Geographic Information Systems (GIS) Laboratory houses 17 networked pentium 4 computers. Each has ArcView 3.3, ArcGIS 8.X, and IDRISI software. The display, manipulation, analysis, retrieval and storage of spatial data are conducted in the facility by undergraduates from multiple disciplines. The Special Projects Laboratory is equipped with 6 Dell Pentium 4 networked units that can be interfaced with a 42" HP 5000 plotter. ArcGIS 8.X and IDRISI Kilimanjaro are the principle applications employed by upper division undergraduates and graduate students.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Albert Barnett	Ph.D.	Geography	Geographic Information Systems Applications: Proximity Analysis, Urban Social Spatial Analysis, Climate Trends

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Health Education	Community Public Health Education	BSPH

### **Laboratories and Other Facilities and Equipment**

Computer Laboratory located within department.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
David Jolly	DrPH	Health Behavior Health Education	HIV/AIDS, Tobacco Prevention and Control, Service Learning, Survey Research
Theodore Parrish	DrPH	Health Education	Community Based Technology Community-Based Participatory Research, Children's Health
LaVerne Reid	Ph.D.	Health Policy	Community-Based Participatory Research;

			Under-Representation of African Americans in Health Careers, Faith-Based Health Promotion
--	--	--	---

**Recent DoD/Other Contract/Grant/Procurement Experience**

-  
**Agency:** Army Research Institute  
**Funding Level:** \$1,039,990 **Year:** 2000  
**Project Director:** Dr. Branislav Vlahovic  
**Title of Project:** Optical Electron & Beam Material Processing

**Agency:** U.S. Army  
**Funding Level:** \$179,500 **Year:** 2002  
**Project Director:** Dr. Alade Tokuta  
**Title of Project:** Environmental Data Base Development

**Agency:** Department of Defense  
**Funding Level:** \$7,294 **Year:** 2000  
**Project Director:** Mr. Tyrone Eaton  
**Title of Project:** DoD Grant Opportunities Workshop

**Agency:** DoD Coast Guard  
**Funding Level:** \$11,900 **Year:** 1989-1990  
**Project Director:** Jerome M<sup>c</sup>Laurin  
**Title of Project:** Prevention of Boating Accidents

**OAKWOOD COLLEGE**  
**Huntsville, AL 35896**

<b>Contact: Marcia A. Burnette</b>	<b>Telephone: (256) 726-7493</b>
<b>Director of Grants and Contacts</b>	<b>Fax: (256) 726-7470</b>
	<b>Email: <a href="mailto:mburnette@oakwood.edu">mburnette@oakwood.edu</a></b>

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Pre-Med Preparation	Bachelors

**Laboratories and Other Facilities and Equipment**

The Biology Department houses the General Research Lab, Animal Lab Facility, and the Microbiology Lab. The General Research Lab teaches students lab techniques for using various lab instruments. The Microbiology Lab focuses on the studies of microorganisms and teaches students to be aware of microorganisms that affect human health.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Anthony Paul	Ph.D.	Plant and Soil Science	Connectivity Studies of Ventral Medullary Surface and the Chemosensory Unity-Nucleus Ambiguous
Alexandrine Randriamahefa	Ph.D.	Biology	Water Quality Research, Strategies for Ecology Education Development and Sustainability

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVELS</u></b>
Biochemistry	Pre-Med Preparation	Bachelors

**Laboratories and Other Facilities and Equipment**

The Chemistry Department has a Tissue Culture Lab, Laser Optics Lab and a Teaching Lab. The Tissue Culture Lab and the laser Optics Lab are used only for research. The Teaching Lab is used for teaching students general, organic and physical chemistry.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ephraim Gwebu	Ph.D.	Biochemistry	Platelet Function, Vascular Smooth Muscle Cell Culture
Alexandre Volkov	Ph.D.	Bioelectrochemistry Surface Science	Interfacial Phenomena, Electrochemistry, Biophysics, Etrophysiology, Bioelectro-Chemistry, Plant Physiology, Surface Science

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Pre-Med Preparation Grad School Preparation Chemistry Education	Bachelors

**Laboratories and Other Facilities and Equipment**

The Chemistry Department has a Tissue Culture Lab, Laser Optics Lab and a Teaching Lab. The Tissue Culture Lab and the laser Optics Lab are used only for research. The Teaching Lab is used for teaching students general, organic and physical chemistry.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Kenneth LaiHing	Ph.D.	Chemistry	Non-Linear Optics, Molecular Beams, Laser Spectroscopy, Laser Photo ionization/ Detection, Mass Spectrometry

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics		Bachelors

### **Laboratories and Other Facilities and Equipment**

A moderately well-equipped General Physics Laboratory is housed in the Department of Mathematics and Computer Science. The Physics Laboratory accommodates 24 students at one time. Equipment includes a Vernier caliper, micrometer caliper, mass balances, digital timer, and a set of equipment for Basic Air Track.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Osei	Ph.S.	Applied Optics	Genetic Algorithms; Optical Signal Processing Non-Linear Optics

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Nursing		Bachelors

### **Laboratories and Other Facilities and Equipment**

None indicated.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Carol Allen	Ph.D.		

### **Recent DoD/Other Contract/Grant/Procurement Experiences**

None indicated.

**PAINE COLLEGE**  
**Augusta, GA 30910**

*Data from 1996*

<b>Contact: Dr. James M. Hinton</b> <b>Director of Federal Programs</b>	<b>Telephone: (706) 821-8227</b> <b>Fax: (706) 821-8293</b>
--	--

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Hypertension/Diabetes	Bachelors

**Laboratories and Other Facilities and Equipment**

Laboratories equipped with gas chromatography liquid UV spectroscopy, electrophoresis, column chromatography, and an array of other appropriate equipment. Ability to do separations, identification and rate studies of enzymatic reactions.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Herbert C. Ashline	Ph.D.	Chemistry	Relationship Between Diabetes and Hypertension
C.R. Nair	Ph.D.	Chemistry	Chemistry Toxicology, Nutrition, Biochem, Experimental Medicine
P.E. Thomas	Ph.D.	Analytical Chemistry	Catalyst Development Separation by Solvent Extraction

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biological Sciences	Medicinal Use of Plant Extracts	Bachelors

**Laboratories and other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Marion D. Furr	Ph.D.	Plant Sciences	Isolation of Lacticifers
Jack Hayes	Ph.D.	Biological Sciences	Ecology, Insect Ecology, Rapid Bioassessment

Neina Thompson	Ph.D.	Biological Sciences	Zoology-No Research Experience as Such would Like to Pursue Possibility
B. Mohanty	Ph.D.	Biological Sciences	Plant Tissue Culture and its Use in Toxicology, Protein Characterization, Plant and Microbial Interaction
Claire L. Raeuber	Ph.D.	Anatomy	Embryology, Neuroanatomy, Radiology

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics	Education Social	Bachelors

### **Laboratories and Other Facilities and Equipment**

None indicated.

### **Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
W.F. Lawless	Ph.D.	Math	Social Theory
Komala Balakrishna	M.S.C.	Mathematics	Analysis, Modem Algebra
Naomia Walker	M.S.	Mathematics	Linear Algebra-No Theory
C.P. Abubucker	Ph.D.	Mathematics	Operator Theory
Reuben Kesler, Jr.	Ph.D.	Mathematics	Pedagogical Decisions and Teachers Belief Systems, Analysis

### **Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** UNCF/DEEP (EPA)  
**Funding Level:** \$90,390 **Year:** 1995-1996  
**Project Director:**  
**Title of Project:** Building Environmental Justice Collaborations

**Agency:** NIH  
**Funding Level:** \$85,000 **Year:** 1995-1998  
**Project Director:**  
**Title of Project:** Faculty Research Enhancement Support (NIH-EARDA)

**Agency:** U.S. Department of Health & Human Services  
**Funding Level:** \$432,612 **Year:** 1995-1998  
**Project Director:**  
**Title of Project:** Health Careers Opportunity Programs

**PRAIRIE VIEW A&M STATE COLLEGE**  
**Prairie View, TX 77446-0188**

**Contact: Dr. Willie Trotty**  
**Vice President Research**

**Telephone: (936) 857-22451**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM</u></b>		<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John A. Attia	Ph.D.	Electrical Engineering	VLSI Design, Design of Radiation Resistant Circuits, Radiation Studies and Circuit Simulation
Cajetan Akujuobi	Ph.D.	Electrical Engineering	Signal Processing, Broadband Communication Systems
John Fuller	Ph.D.	Electrical Engineering	Digital Systems Design
Kelvin Kirby	D. Eng.	Electrical Engineering	Error Correction Codes and Radiation Studies
Siew T. Koay	Ph.D.	Electrical Engineering	Fuzzy Logic Diagnostic Systems, Digital System
A. Anil Kumar	Ph.D.	Electrical Engineering and Physics	Semiconductor Device Physics; Fault Tolerance Analysis
Charlie Tolliver	Ph.D.	Electrical Engineering	Electric Hybrid Vehicles
Richard Wilkins	Ph.D.	Electrical Engineering	Radiation Effects on Novel Electronic Materials and Devices; Quantum and NanoElectronics
Dhadesugoor Vaman	Ph.D.	Electrical Engineering	Voice Over IP, Quality of Service, Transport Management

Matthew Sadiku	Ph.D.	Electrical Engineering	Computer Networks and Electromagnetic
Bob Lacovara	Ph.D.	Electrical Engineering	Computer and Communication Systems
Penrose Cofie	M.S.	Electrical Engineering	Power Electronics, Power Systems
Warsame Ali	M.S.	Electrical Engineering	Power Systems, Control Systems and Hybrid Vehicles
Mohammed T. Hussein	Ph.D.	Computer Engineering Technology	Computer Architecture Control Systems
David A. Kirkpatrick	Ph.D.	Electrical Engineering Technology	Robotics Programming
Mohan Ketkar	Ph.D.	Electrical Engineering Technology	Signal Analysis Telecommunications
Sarhan Musa	Ph.D.	Computer Engineering Technology	Computer Networking Data Communications
N.N. Sarker	Ph.D.	Computer Engineering Technology	Software Engineering
David Perez	M.S.	Computer Engineering Technology	Microprocessors System
Faizul Islam	M.S.	Electrical Engineering Technology	Electronics & Circuits
Irvin W. Osborne-Lee	Ph.D.	Chemical Engineering	Modeling of Processes (performance, cost and risk) and Other Phenomena, Decision Analysis, Surface Phenomena and Thermodynamics
Michael Gyamerah	Ph.D.	Biochemical Engineering	Bioprocess Engineering, Biocatalysis, and Bioremediation
Felecia M. Nave	Ph.D.	Chemical Engineering	Separations, Membrane Processes. and

			Bioseparations
Paul O. Biney	Ph.D.	Mechanical Engineering	Thermal Science, Materials Science, Energy Study
Ronald Boyd	Ph.D.	Mechanical Engineering	Thermal Science, Heat Transfer for Sub cooled Flow Boiling, and Conjugate Problems
Ing Chang	Ph.D.	Mechanical Engineering	Fluid Dynamics, Thermal Science, Small Engine Research
Ali E. Ekhlassi	M.S.	Mechanical Engineering	Measurements
Surjit S. Grewal	Ph.D.	Mechanical Engineering	Control Algorithms
Ziaul Hugue	Ph.D.	Mechanical Engineering	Modeling and Experimental Research in Thermo-Fluid Area
Shield B. Lin	Ph.D.	Mechanical Engineering	Control Algorithms and Implementation, Finite Element Analysis on Structure and Dynamics, Robotics
James O. Morgan	D. Eng.	Mechanical Engineering	Manufacturing, Engineering Education
Jianren Zhou	Ph.D.	Mechanical Engineering	Microelectronics, Thin Films, Electronic Materials, Manufacturing Processes, Materials Composites, Ceramics, Polymers Refractory Alloys, Failure Analysis
R. Kommajapati	Ph.D.	Civil Engineering	Environmental Engineering, Water & Wastewater Treatment, Hazardous Waste Management, Remediation of Soils, Surface tents, Colloidal Gas and Liquid Aphrons, Industrial Waste Separations, Pre-Dispersed Solvent Extraction, Fog Chemistrv. and Transport &

			Fate of Pollutants
R. Radhakrishnan	Ph.D.	Civil Engineering	Structural Engineering, Stability of Buildings, Rehabilitation of Bridges, Infrastructure Security, Offshore Structures, Transportation Engineering, Pavement Analysis and Design and Geotechnical Engineering
H.Y. Yeh	Ph.D.	Civil Engineering	Structural Control, Structural Safety, Structural Dynamics, and Composite Materials
Mohsen Beheshti	Ph.D.	Computer Science	High Performance Computing, Data Conversion
Ravidran Iyengar	M.S.	Computer Science	Networking
Sherri Frizell	ABD	Computer Science	Human Computer Interaction
Jonathan Martin	Ph.D.	Computer Science	Data Mining
J.D. Oliver	M.S.	Computer Science	Data-base Systems; Programming Languages
Kwang Paick	Ph.D.	Operations Research, Economics, and Computer Science	Data Conversion Processor
Safwat H. Shakir	Ph.D.	Environmental Science and Ecological Modeling	Data Modeling/Data Algorithm
Myrtle Tompkins	M.S.	Industrial Education	Computer Education
Feng-Jen Yang	Ph.D.	Computer Science	Expert Systems
Yonggao Yang	Ph.D.	Information Technology (Computer Science)	Graphics
Yukong Zhang	Ph.D.	Computational Analysis and Modeling	Compilation and Analytical Modeling
Shuguang Yan	Ph.D.	Computer Science	Networking

**SAINT AUGUSTINE'S COLLEGE**  
**Raleigh, NC 27611**

**Contact: Mrs. Debra A. Fields**  
**Director of Institutional Research and**  
**Planning**

**Telephone: (919) 516-4478**  
**Fax: (919) 516-4035**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Natural Sciences and Mathematics	Pre-Medical	Bachelors
	Industrial Hygiene and Safety	Bachelors
	Mathematics	Bachelors

**Laboratories and Other Facilities and Equipment**

The Pennick Hall Building has biology and chemical laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Mark Melton	Ph.D.	Biology	Biology
Dr. Kenneth Jones	Ph.D.	Mathematics	Mathematics

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Sciences	Criminal Justice	Bachelors
	Psychology	Bachelors
	Sociology	Bachelors

**Laboratories and Other Facilities and Equipment**

A computer laboratory is available with SPSS software, a statistical analysis software package, for the use of researchers in the analysis of data.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Cecil McManus	Ph.D.	Psychology	Behavioral Studies

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVELS</u></b>
Business	Business Administration	Bachelors
	Computer Information Systems	Bachelors
	Computer Science	Bachelors
	Organizational Management	Bachelors

**Laboratories and Other Facilities and Equipment**

The Cheshire Building houses computer laboratories to be used in conjunction with computer technology instruction

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Frank Godfey	Ed.D.	Business Administration	Marketing
Dr. Lalchand Shimpi	Ed.D.	Computer Info Systems	Computer Info Systems

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Communications	Public Relations	Bachelors
	Broadcasting	
	Editorial News	
Visual and Performing Arts	Theatre and Film Production	Bachelors
	Visual Arts	Bachelors

**Laboratories and Other Facilities and Equipment**

The communications wing is equipped with state-of-the-art equipment for broadcasting and television studios. The College also has a sound stage to facilitate the production of video and film media.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Delindus Brown	Ph.D.	Communications	
J.M. Halloway, Jr.	M.S.	Radio and Television	

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

**SELMA UNIVERSITY**  
**Selma, AL 36701**

**Contact: Dr. Alvin A. Cleveland, Sr.**                      **Telephone: (334) 872-2533**  
**President of Developmental Affairs**                      **Fax: (334) 872-7746**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology and Physical Education	Pre-Medicine	Bachelors

**Laboratories and Other Facilities and Equipment**

Research Laboratory: Cell/Molecular Biology lab-Equipped with all supporting instrumentation for research in the areas of Enzyme Kinetics. Toxicology Lab-with capabilities for research in the areas of biochemical/environmental and heavy metal toxicology. This includes environmental assessment. Microbial Degradation Laboratory - This lab is very well equipped for research in the area of biodegradation of toxic of hazardous organic chemicals. This includes designing and testing bioreactors. Animal Facility - NH/IACUC approved facility with three independent animal rooms, large cage washer.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Kirit D. Chatpatwala	Ph.D.	Microbiology/ Immunology	Microbial Degradation; Bioremediation; Immunotoxicology; Biochemical Microbiology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	Elementary (Science) Secondary (Science)	Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

## **Laboratories and Other Facilities and Equipment**

Computer Facility-consists of two teaching labs with Local Area Network of 25 IBM FS/2 Computers. A third lab is used as Math-Computer Lab.

**SOUTH CAROLINA STATE COLLEGE**  
**Orangeburg, SC 29117**

**Contact: Mr. Elbert R. Malone**  
**Director, Office of Sponsored Programs**

**Telephone: (803) 536-8213**  
**Fax: (803) 533-3679**  
**Email: malone@scsu.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u><b>PROGRAM 1</b></u>	<u><b>SPECIALTY</b></u>	<u><b>DEGREE LEVEL</b></u>
Physical & Biological Sciences	Physics Chemistry Biology	Bachelors

**Laboratories and Other Facilities and Equipment**

Research facilities in Chemistry, Biology, and Physics house modern “State-of-Art” scientific equipment and instrumentation used to conduct research in Spectroscopy, Materials Science, Plant Physiology, Molecular Biology, Genetics, Environmental Science, Ecology, Biochemistry, Marine Biology, and High Temperature Superconductivity. Also, housed in the Department of Physical and Biological Sciences is an extensive microcomputer laboratory; instrumentation for biomedical research; and a materials characterization laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<u><b>NAME</b></u>	<u><b>DEGREE</b></u>	<u><b>DISCIPLINE</b></u>	<u><b>RESEARCH SPECIALTY</b></u>
Nirmalendu Datta-Gupta	Ph.D.	Chemistry	Fiber Optics; Chemical Sensors; Biochemical Synthesis and Characterization
James Payne	Ph.D.	Physics	High Temperature Superconductors; Materials Sciences of Thin Flms; SQUIDS; Transuranic Waste Drum Study
Linda Payne	Ph.D.	Physics	High Temperature Superconductors; Sensors; Ceramic Crucibles for Carbon Analysis
John B. Williams	Ph.D.	Biology	Environmental Ecology; Statistical Analysis of rivers

			and streams; heavy metal uptake in fishes
Ajoy G. Charkrabarti	Ph.D.	Chemistry	Cellular Events Controlling Dormancy Mechanisms in Seeds
Johnnie Jenkins	Ph.D.	Chemistry	Selected Air Pollutants Affecting Cellular Events in Seed Germination
Andrew Koli	Ph.D.	Chemistry	Analysis of Trace Metal in Fish
David Scott	Ph.D.	Biology	Genetic
James B. Stukes	Ph.D.	Biology	Marine Biology
Frank Weaver	Ph.D.	Chemistry	Surface Chemistry; Study of Epoxides
Ambrose Anorud	Ph.D.	Biology	Environmental Sciences
Judith Salley	Ph.D.	Biology	Science Education
Joe Emily	Ph.D.	Chemistry	Environmental; Environmental Geochemistry
Rahina Mahtab	Ph.D.	Chemistry	DNA Detection with Nanoparticles; Biomedical Research
Nasrollah Hamidi	Ph.D.	Chemistry	Synthesis Solution & Ballistic Properties
Ruhulla Massoudi	Ph.D.	Chemistry	Nanostructured Material Research
Wagih Abdel-Kader	Ph.D.	Physics	Space Radiation
Julius Barnes	Ph.D.	Physics	Thermoelectric Properties
Franklin Robinson	Ph.D.	Physics	NOVA Research

## **PROGRAM 2**

Engineering Technology

## **SPECIALTY**

Civil  
Electrical  
Industrial  
Environmental  
Mechanical

## **DEGREE LEVEL**

Bachelors

## **Laboratories and Other Facilities and Equipment**

The Engineering Technology program houses various types of Engineering Testing and Measurements devices used to conduct research in Fluid Dynamics, Stress Analysis, Foundation Engineering and Design, Transportation Engineering for Hazardous Wastes, CAD/CAM, VLSI Design and Engineering, and composite Material Technology.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
A.M.H. Basher	Ph.D.	Electrical Engineering	Electrical Engineering/Control System; Uncertain Dynamic Delay Control Systems; Digital Control System Robust, Multi-Variable Control Systems/Stability and Control
H. Naseri Neshat	Ph.D.	Mechanical	High Reynolds Numbers Flows Engineering (Confined Numerical Approach); Turbulent Flows (Numerical Approach); Heat Transfer Computational Fluid Dynamics; Experimental Fluid Mechanics; High Reynolds Numbers; Heat Transfer
Tom Whitney	Ph.D.	Environmental	Transportation; Technology Transfer
Stanley N. Ihekweazu	Ph.D.	Civil & Mechanical	Composite Materials; Design, Manufacture Engineering and Non-Destructive Testing and Evaluation of Composite Materials
Ramachandra R. Sandrapaty	Ph.D.	Industrial & Mechanical Engineering	Energy and Thermal Mechanical Sciences; Combustion Generated Pollution; Solid Waste Disposal; Wood Gasification; Bio-Mass
Nikunja Swain	Ph.D.	Industrial & Electrical	Parallel & Distributed Systems; Power System; Engineering Load Flow Analysis; Robotics/Control System Design
Ching-Hua Mou	Ph.D.	Civil Engineering	Geo Technical Engineering; Structural Design and Analysis; AutoCAD, AVSY, CAD; Mapping, Highway, Airport, Landfill; Soil Mechanics; Hydraulic, Hydrology
Eduardo Farfan	Ph.D.	Nuclear Engineering	Stochastic Models of Internal Dosimetry, Bioassay Interpretations

Vicentica Valdes	M.A.	Physics Nuclear Engineering	Nuclear Fission in the Production of Power; Risk Assessment
James Anderson	ScD.	Electrical Engineering	Digital Systems; Solid State Electronics; Sensor & Sensor Systems; Electoptics

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Applied Professional Sciences	Family & Consumer Sciences Education (FCS) FCS Business Child Development Nutrition and Food Management Criminal Justice Nursing Human Services Individual & Family Life Nutritional Sciences Rehabilitation Counseling Speech Pathology & Audiology	Bachelors

### **Laboratories and Other Facilities and Equipment**

Family and Consumer Sciences houses a nutritional sciences laboratory, merchandising and housing laboratory and a child-development learning center.

The Speech Pathology & Audiology program has several large gearing suites, nine therapy rooms and several speech/hearing science laboratories for research.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Leola Adams	Ph.D.	Family and Consumer Sciences	HIV/AIDS Education
Juanita Bowens- Seabrook	Ph.D.	Family and Consumer	Nutritional Sciences; Health Disparities
Donnis Zimmerman	M.S.W.	Human Services	Behavior Sciences; Social Institution Analysis; Elderly-Caregiver, Health Disparities
Debra Austin	Ph.D.	Nursing	Medication Non- Compliance; Hypertensive Patients; Diabetic Patients- Uncontrolled

Gwendolyn Wilson	Ph.D.	Speech Pathology & Audiology	Hearing Impaired Children/Adults; Rural Rehabilitation; Rural Outbreak Gearing Services
Pinkey Carter		Nursing	Minority Health
Bridgette Hollis	Ph.D.	Rehabilitation Counseling	Rehabilitation Counseling
Sylvia Whiting	Ph.D.	Nursing	Minority Health; Health Disparities
Eva Njoku	Ph.D.	Social Work	Transportation & Child Safety; Gerontology; Prenatal Substance Abuse

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics & Computer Science	Model Design Graphics	Masters

### **Laboratories and Other Facilities and Equipment**

Computer hardware facilities supportive of research in Graphics, Computer-Aided Engineering design and Analysis, Programming Languages, Algorithm, Development/Design and Numerical Methods and Analysis.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James E. Keller	Ph.D.	Mathematics	Conceptual Understanding of Variables; Cognitive Development/Levels of Thinking
James L. Boettler	Ph.D.	Computer Science	Data Structures; Data Compression
Harum Adongo	Ph.D.	Mathematics	Math Education & Teacher Training
Kuzman Adziewski	Ph.D.	Math & Computer Science	Wavelet Processing

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Economics Agribusiness Business Administration Marketing	Masters

**Laboratories and Other Facilities and Equipment**

Human Resource Development facilities available to support marketing. Planning and Systems analysis development.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Barbara Adams	Ph.D.	Accounting	Financial Reporting; Auditing Issues; Cost Control; Ethical Issues in Accounting

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Ft. Jackson  
**Funding Level:** \$70,124                      **Year:** 1995  
**Project Director:** Dr. James Walker  
**Title of Project:** Family Advocacy MOU Between SCSU and Ft. Jackson, South Carolina

**Agency:** DoD  
**Funding Level:** \$111,492                      **Year:** 1995  
**Project Director:**  
**Title of Project::** Neural Network Control With Unsupervised Learning

**SOUTHERN UNIVERSITY, SHREVEPORT**  
**Shreveport, LA 71107**

**Contact: Dr. John Alak**  
**Interim Director, Institutional**  
**Research and Planning**

**Telephone: (318) 674-3307**  
**Fax: (318) 674-3419**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Electronic Technology	Fundamentals of Electronics	Associate

**Laboratories and Other Facilities and Equipment**

The Electronics Technology has one laboratory that houses a sixteen (16) student station setup which encompasses multi-meters, frequency generators, power supplies, oscilloscopes and equipment storage space.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Warner Brown	B.S., M.S.	Electrical Engineering	Fundamentals of Electronics

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Aviation Maintenance Technology	Composite Structure Repair	Associate

**Laboratories and Other Facilities and Equipment**

Acquisition of Equipment for Composite Laboratory pending. Aircraft Hangar (15625 sq. ft.) Aircraft Storage building (1600 sq. ft.) equipped for training students.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Conception Rodriquez	A.A.S.	Aviation Maintenance	Aviation Maintenance
David Fogelman	A.M.T., ThB. M.Ed.	Aviation Maintenance	Aviation Maintenance

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer Science	Computer Science	Associate

**Laboratories and Other Facilities and Equipment**

The Austin-Barnes Computer Labs: NCR (104), NCR (105), NCR (106) and two other Computer Science Laboratories are available at the Metro Campus. These labs are available for both classes and seminar series.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Jimmy Daniels	B.S., M.S.	Computer Science	Computer Science
Iris Chapman	B.S., M.B.A., Ed.D.	Computer Science	Computer Science

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Dental Hygiene	Dental Hygiene	Associate

**Laboratories and Other Facilities and Equipment**

Fully equipped Dental Hygiene Laboratory on campus equipped laboratory facilities at clinical affiliate sites

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESERACH SPECIALTY</u>
Haywood Joiner	B.A., M.Ed.	Medical Technology	Medical Technology

<u>PROGRAM 5</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Radiologic Technology	Radiologic Technology	Associate

**Laboratories and Other Facilities and Equipment**

Fully equipped X-Ray Laboratories located at clinical affiliate sites.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Haywood Joiner	B.A., M.Ed.	Medical Technology	Medical Technology

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Medical Laboratory Technology	Medical Laboratory Technology	Associate

**Laboratories and Other Facilities and Equipment**

Fully equipped Laboratories located at clinical affiliate sites.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Haywood Joiner	B.A., M.Ed.	Medical Technology	Medical Technology

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

STILLMAN COLLEGE  
Tuscaloosa, AL 35403

*Data from 1996*

Contact: Marion F. Combs  
Vice President for Academic Affairs

Telephone: (205) 349-4240

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Biology/MBRS & MARC Programs	Minority Research Careers	Bachelors

**Laboratories and Other Facilities and Equipment**

The science building consists of 43,000 sq. ft. of assignable space. The areas that are available for research include 3 well-equipped laboratories, an autoclave and washroom, a controlled environment room and an instrument room.

The animal room in the new science building is 18' x 16'. It has a working area next to it. The room is equipped with an automatic exhaust system and air conditioning. We have been using this room for research for the last eight years. Mice are used for research.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Jarnail Singh	Ph.D.	Developmental Biology	Developmental Impact of CO, SO <sub>2</sub> , NO <sub>2</sub> as Influenced by Maternal Protein Deficiency
Mrs. Mildred Collins	M.S.	Zoology	Student Research and Seminal Activities

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business Administration	International Business	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer laboratory consisting of personalized computers.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Science Studies	International	Bachelors

**Laboratories and Other Facilities and Equipment**

An office and laboratory for international studies students.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Michael Hill	Ph.D.	History	American History - Southern States National Impact

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Teacher Education	Elementary/Secondary	Bachelors

**Laboratories and Other Facilities and Equipment**

A Curriculum Laboratory for teacher education majors consisting of computers and literature.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Betty Ford	Ed.D.	Elementary Education	Styles of Learning
Gaye Teat	Ed.S.	Secondary Education	
Robert Eastman	Ed.D.		Telecommunications

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** USAF/UES  
**Funding Level:** \$20,000      **Year:** 1986-1987  
**Project Director:** Dr. Shirley A. Williams-Scott

**Title of Project:** Mini Research Grant, Cortisol Prevention of Beryllium Lung Disease in Postpartum Rats. Designed to explore mechanism(s) of action of beryllium in lung disease.

**Agency:** NIH-DRR

**Funding Level:** \$319,000                      **Year:** 1987-1990

**Project Director:** Dr. Jarnail Singh

**Title of Project:** MBRS Program at Stillman College. Effects of carbon monoxide and protein deprivation on development.

**TENNESSEE STATE COLLEGE**  
**Nashville, TN 37209-1561**

**Contact: Dr. Marcus W. Shute**  
**Vice President Research and**  
**Sponsored Programs**

**Telephone: (615) 963-7659**  
**Fax: (615) 963-5068**  
**Email: mwshute@tnstate.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biological Science	Biomedical Research	Masters

**Laboratories and Other Facilities and Equipment**

Twelve modern research laboratories that are well equipped with scientific instrumentation and computer support services; several specialty laboratories for Electron Microscopy, Histological-Chemistry, and Radiation Studies. Tennessee State University is currently involved in several collaborative research initiatives. The Department of Biological Sciences and the College of Engineering and Technology, in collaboration with Meharry Medical College and Oak Ridge National Laboratory form the Center for Neural Engineering (CNE). That collaboration was funded by the Office of Naval Research (ONR) in 1991. Plans are being made to expand and intensify this collaborative arrangement to increase research productivity. A great deal of this research is heavily biomedical.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James A. Adams	Ph.D.	Toxicology	Effects of PCB's on Biological Systems
Alexander C. Wells	Ph.D.	Toxicology	Effects of Pesticides; Herbicides on Neurological Reactions
Robert F. Newkirk	Ph.D.	Neurophysiology	Characterization of Neurotransmitters
Fu_Ming Chen	Ph.D.	Molecular Biology	The Binding of Drugs to DNA
Mohammad Karim	Ph.D.	Biochemistry	Synthesis of Anticancer and Anti-Aids Agents
Philip Ganter	Ph.D.	Genetic Biology	Genetic and Phenotype Variation in Yeast Killer Factor

Margaret Ann Blackshear	Ph.D.	Biology	Mechanisms in Methamphetamine and Cocaine Induced Crowd Behavior
Margaret Whalen	Ph.D.	Biochemistry	Effect of organotin compounds on the biochemistry and regulation of NK Cell cytotoxic function
Mary Ann Asson-Batrees	Ph.D.	Biochemistry	Role of vitamin A in neurogenesis
Benny Washington	Ph.D.	Biochemistry	Role of H-3 Receptor in cardiovascular regulation
Michael Ivy	Ph.D.	Neurophysiology	Physiology of choline transport
Brenda S. McAdory	Ph.D.	Cell Biology	Mechanisms of neuronal outgrowth during development, regeneration and synaptic plasticity
John T. Robinson	Ph.D.	Cell Biology	Developmental function and regulation of cytoskeletal proteins
E. Lewis Myles	Ph.D.	Cell Biology	Analysis of cancer cell growth inhibition by compounds extracted from Medicinal plants
Anthony O. Ejiofor	Ph.D.	Microbiology	Characterization of Bacillus thuringiensis species from Tennessee
Terrance L. Johnson	Ph.D.	Microbiology	Bacterial community structure in harsh and non-harsh environments
Artenzia Young-Seigler	Ph.D.	Physiology	Effect of TCE on animal cell function
Richard Browning	Ph.D.	Biotechnology	Mechanisms of ergopeptine alkaloid effect on beef cattle production
Rodger Sauve	Ph.D.	Biotechnology	Improvement of plant genera to broaden consumer appeal

**PROGRAM 2**

Engineering

**SPECIALTY**Information Systems  
Engineering and  
Management  
Robotics  
AI/Expert Systems  
Neural Networks**DEGREE LEVEL**

Masters

**Laboratories and Other Facilities and Equipment**

Six highly-equipped research laboratories with excellent computer systems for studies in structural, chemical and systems analysis, circuitry, design, ionization, etc. Research funds increased from approximately \$400,000 in 1990 to roughly \$5,000,000 in 1995. The Center of Excellence in Information Systems Engineering and Management (ISEM) is a full-fledged research center in science and engineering. Its primary goal is to provide an interdisciplinary research environment for science, engineering and mathematics related to information systems. It has more than 6,000 sq. ft. of floor for study and research and is fully equipped with high tech instruments and ultra-modern facilities. The center operates seven remotely controlled robotics telescopes located at Fairform Observatory in Washington Camp, Arizona. The Center conducts mainstream research in astrophysics, advanced control systems and system identification, and management information systems. This research has useful implications over a wide range of applications, from health care to the military

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Amir Shirkhodle	Ph.D.	Engineering	Modernization of Concurrent Research Labs
Saleh Zein-Sabatto	Ph.D.	Engineering	Robust Neurocontroller (Robotics Arm)
Geoffrey Yuen	Ph.D.	Engineering	Ion Channel, Dynamics/Computational Properties
S. Devgan	Ph.D.	Engineering	Wind Energy Trainship
X.Y. Tao	Ph.D.	Engineering	Aerodynamics
M. Bodruzzaman	Ph.D.	Engineering	Neural Networks

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** NIH  
**Funding Level:** \$126,129      **Year:** 1995

**Project Director:** Dr. Fu-Ming Chen  
**Title of Project:** The Binding of Drugs to DNA

**Agency:** NIH  
**Funding Level:** \$109,523                      **Year:** 1995  
**Project Director:** Dr. Philip Ganter  
**Title of Project:** Genetic and Phenotype Variation in Yeast Killer Factor

**Agency:** NASA  
**Funding Level:** \$1,200,000/yr                      **Year:** 1995-2005  
**Project Director:** Dr. Michael Busby  
**Title of Project:** Information Systems Engineering

**Agency:** NIH  
**Funding Level:** \$541,368                      **Year:** 1995  
**Project Director:** Dr. M. Bodruzzaman  
**Title of Project:** Neural Network/Online Health

**Agency:** DoE  
**Funding Level:** \$1,200,000                      **Year:** 1995  
**Project Director:** Dr. Decatur Rogers  
**Title of Project:** Chair of Excellence in Environmental Engineering

**Agency:** NIH  
**Funding Level:** \$46,293                      **Year:** 1995  
**Project Director:** Dr. Elbert Myles  
**Title of Project:** Effects of Stress Produced by Microwave and UK radiation on Mammalian Cells

**TUSKEGEE UNIVERSITY**  
**Tuskegee, AL 36088**

<b>Contacts:</b> Dr. Shaik Jeelani VP, Research and Sponsored Programs	<b>Telephone:</b> (334) 727-8970 <b>Fax:</b> (334) 724-4224 <b>E-mail:</b> jeelani@tuskegee.edu
Ms. Danette T. Hall Associate Director Office of Sponsored Programs	<b>Telephone:</b> (334) 727-8223 <b>Fax:</b> (334) 724-4221 <b>E-mail:</b> dthall@tuskegee.edu
Ms. Ajuania White Assistant Director Office of Grantsmanship and Compliance	<b>Telephone:</b> (334) 724-4223 <b>Fax:</b> (334) 727-8801 <b>E-mail:</b> agwhite@tuskegee.edu

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Agricultural Sciences		Bachelors Masters

**Laboratories and Other Facilities and Equipment**

3,800 acres of agricultural research land, including 500 acres in cultivation and 2,500 acres of forest lands, 9,000 sq. ft. of greenhouse facilities are available; outdoor laboratories for swine, cattle, poultry, goat, fruits and vegetables, cereals and forage research; modern laboratories with laboratory equipment capabilities in human nutrition, soil and food microbiology, environmental science, water quality, wildlife management, tissue culture, plant and animal breeding, waste product utilization, food processing, clothing and fashion design, hospitality management, forestry, biomass conversion, food irradiation, and plant pathology.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Marikis Alvarez	Ph.D.		
Ramble Ankumah	Ph.D.	Soil Biochemistry	
Ntam Baharanyi	Ph.D.	Agricultural Economics	
Jeannette Bartlett	Ph.D.	Animal Science	

Fouad Basiouny	Ph.D.	Horticulture, Fruit Physiology and Bio-Chemistry
Prosanto Biswas	Ph.D.	Plant Science
Conrad Bonsi	Ph.D.	
Eunice Bonsi	Ph.D.	
Robert Corley	Ph.D.	Animal Sciences
Marceline Egnin	Ph.D.	Plant Genetics and Biotechnology
Jianbang Gan		
Desmond Mortley	Ph.D.	Horticulture
Mudiayi Ngandu	Ph.D.	Economics
Ralph Noble	Ph.D.	Reproductive Physiology
Guohao He	Ph.D.	Quantitative Genetics Plant Breeding
Walter Hill	Ph.D.	Agronomy/Environmental
Gobena Huluka		

## **PROGRAM 2**

## **SPECIALTY**

## **DEGREE LEVEL**

Biotechnology

### **Laboratories and Other Facilities and Equipment**

The Biotechnology laboratory is state-of-the-art and has equipment for cloning, sequencing and All aspects of genetic engineering. The EM facility houses two transmission and one scanning electron microscope and a teaching laboratory in EM technology with all the equipment for teaching preparing specimen for the scopes. The entire biology department is geared more towards cellular and molecular biology vs. description biology.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Alak	Ph.D.		
Helen Beford	Ph.D.	Zoology	
John P. Davidson	Ph.D.	Biology	
Douglas Hileman	Ph.D.	Botany	

Velma Richardson	Ph.D.	Genetics
Rajinder Saini	Ph.D.	Insect Toxicology Insect Pest Management
Julian Thomas	Ph.D.	Microbial Physiology
Vishnu Suppiramaniam	Ph.D.	Microbial Physiology
Roberta Troy	Ph.D.	Zoology
Timothy Turner	Ph.D.	Zoology
John Williams	Ph.D.	Zoology and Physiology

### **PROGRAM 3**

### **SPECIALTY**

### **DEGREE LEVEL**

Biochemistry

### **Laboratories and Other Facilities and Equipment**

Biochemistry research is concentrated in three laboratories in an adjoining research facility. Space for animal storage and other supporting services are available.

Polymer Chemistry is a joint program with the School of Engineering. Polymer research has added a new laboratory unit in a newly constructed multidiscipline facility connected by a bridge to the School of Engineering Building. The laboratories are equipped for FTIR, 300 MHz, NMR, DTA and TGA thermal analysis, fabrication and mechanical testing equipment.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Zewdu Gebeyehu	Ph.D.	Inorganic Chemistry	
Piara Gill	Ph.D.	Physical Chemistry	
Adriane Ludwick	Ph.D.	Physical Chemistry	
Gregory Pritchett	Ph.D.	Biophysical Chemistry	
Barbara Rackley	M.S.Ed.	Chemistry Concentration	
C. Emmanuel Sikabwe	Ph.D.	Analytical Chemistry	
Kyle Willian	Ph.D.	Physical Chemistry	

**PROGRAM 4****SPECIALTY****DEGREE LEVEL**

Engineering, Architecture,  
Physical Science

Bachelors  
Masters  
Ph.D.

**Laboratories and Other Facilities and Equipment**

Wind tunnel laboratory, computer flight vehicle design laboratory, architecture and construction material laboratory, advanced propulsion laboratory, communications method research laboratory, and fluid thermal science laboratory.

**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH  
SPECIALTY**

Syed Firasat Ali	Ph.D.	Fluid Dynamics	
Vascar Harris	Ph.D.		
Mahesh Hosur	Ph.D.		
Abelhamid Mazher	Ph.D.	Aerospace Engineering	

**PROGRAM 5****SPECIALTY****DEGREE LEVEL**

Architecture

**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH SPECIALTY**

Donald Armstrong	M.S.		
Timothy Barrows			
Harold Bradford	M.S.	Civil Engineering	
Major Holland	B.A.	Architecture	
Carla Jackson Reese			
Massoud Safaai	M.S.	Construction Science	
Raj Sehgal			

**PROGRAM 6****SPECIALTY****DEGREE LEVEL**

Chemical Engineering

Bachelors

Masters  
Ph.D.

### **Laboratories and Other Facilities and Equipment**

The equipment available for these specialties are gas chromatograph, permeation cells, liquid chromatograph, high temperature controller sand bath, reactor, hydrocarbon analyzer.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Nosa Egiebor	Ph.D.		
Abua Ikem	Ph.D.	Analytical Chemistry	
Jaya Krishnagopalan	Ph.D.	Chemical Engineering	
Kyung Kwon	Ph.D.		
Kafui Nyavor	Ph.D.		
Yoonkook Park	Ph.D.		
Nader Vahdat	Ph.D.	Chemical Engineering	

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Electrical Engineering		

### **Laboratories and Other Facilities and Equipment**

Power Systems Laboratory with High Voltage Insulation Materials; Communications laboratory with Signal Processing and Digital Communications computer Modeling and VLSI with Design, Layout, Simulation, and Testing of ASIC VLSI Circuits.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Arunsi Chuku	Ph.D.	Electrical Engineering Electrical Power	
Kalyan Kumar Das	Ph.D.	Microelectronics	

Sammie Giles	Ph.D.	Electrical Engineering
Marc Karam	Ph.D.	
Chandrakanth Gowda	Ph.D.	
Christian Madubata	Ph.D.	Electrical Engineering
M. Anand Mohan	Ph.D.	Electrical Engineering
Ben Oni	Ph.D.	Electrical Engineering
Farid Touati	Ph.D.	Electrical Engineering

**UNIVERSITY OF ARKANSAS - PINE BLUFF**  
**Pine Bluff, AR 71601**

**Contact: Dr. William M. Willingham**                      **Telephone: (501) 543-8051**  
**Director of Research and Sponsored**              **Fax: (501) 543-8055**  
**Programs**    **Email: jordan\_v@vx4500.uapb.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Organic/Biochemistry	Bachelors

**Laboratories and Other Facilities and Equipment**

Research center with equipment including HPLC, gas chromatograph, mass spectrophotometer, infrared spectrophotometer, centrifuges, radiation counters, and computers; access to space and use of state-of-the-art equipment and scientific expertise available at the nearby National Center for Toxicological Research (NCTR) and the Pine Bluff Arsenal.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Rose M. McConnell	Ph.D.	Biochemistry	Proteinase Inhibitors
Uttam K. Jagwani	Ph.D.	Organic Chemistry	Benzopyran Derivatives
Richard B. Walker	Ph.D.	Pharmaceutical	Oxazolidines as Potential Sympathomimetic Chemistry Pro-Drugs
Clifton B. Orr	Ph.D.	Pharmacology	Anticancer Drug Activity in Anguidine
Joseph Owasoyo	Ph.D.	Toxicology	Diabetes on Rat Brain Cholinergic System Pharmacology and Memory

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Fisheries Biology	Production and Processing	Bachelors

### **Laboratories and Other Facilities and Equipment**

A newly constructed Research Complex with 16,800 sq. ft. of R&D space as well as state-of-the-art equipment and other accessories. Additionally, there is a 213-acre farm area with 72 research fish ponds.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Nathan M. Stone	Ph.D.	Aquaculture	Golden Channel Production Methods
Douglas Tave	Ph.D.	Aquaculture	Genetics of Growth and Body Color of Baitfish and Evaluation of Various Strains of Catfish
Dennis O. Balogu	Ph.D.	Fish Nutrition	Nutrition of Body Composition, Sensor, Quality, of Farm-Raised Channel Catfish
Ann Gannam	Ph.D.	Fish Nutrition	Diets for Golden Shiner Production
Carole R. Engle	Ph.D.	Aquaculture Economics & Marketing	Regional and National Market for Aquaculture Products and Production Inputs in Catfish Production

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics	Astrophysics	Bachelors

### **Laboratories and Other Facilities and Equipment**

Approximately 1,800 sq. ft. of laboratory space with specialized equipment Arzon-Ion LASER 5-watts, and MICRO VAX 3300 plus other state-of-the-art equipment.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
M. A. Miah	Ph.D.	Physics	Particle Precipitation's Observed by EXOS-C

Aslam H. Chowdhury	Ph.D.	Physics	Decay of an Induced Phase Grating Via Particle Diffusion
Tarak J. Bhattacharyya	Ph.D.	Physics	Ultrasound by Alternate Heating and Cooling

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	Elementary, Secondary and Special Education Production and Processing	Bachelors

### **Laboratories and Other Facilities and Equipment**

Materials and instructional media center for teacher education maintained both as a part of the University Library and as several separate units. Offers laboratories, technical equipment, classroom staff, clinical observation, and hands-on experience in Speech Pathology and in other areas.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Benjamin Tei Retarded	PhD.	Psychology	Information Processing in the Mentally Retarded

### **Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** U.S. Department of the Air Force  
**Funding Level:** \$359,000 **Year:** 1988-1991  
**Project Director:** Dr. M.A. Miah  
**Title of Project:** Global Zones of Particle Precipitation as Observed by EXOS-C

**Agency:** U.S. Army  
**Funding Level:** \$94,390 **Year:** 1989-1990  
**Project Director:** Dr. Aaron Van Wright, Jr.  
**Title of Project:** Enhanced Training Skills Program for ROTC Cadets

**Agency:** NASA  
**Funding Level:** \$150,000 **Year:** 1987-1990  
**Project Director:** Dr. Charles A. Walker  
**Title of Project:** Motion Sickness

**Agency:** National Association for Equal Opportunity (NAFEO) in Higher Education

**Funding Level:** \$150,000 **Year:** 1989-1990

**Project Director:** Dr. Charles A. Walker

**Title of Project:** Increasing the Participation of the Historically Black Colleges and Universities and Minority Institutions in Department of Defense Programs

**UNIVERSITY OF THE DISTRICT OF COLUMBIA**  
**Washington, DC 20008**

*Data from 1996*

<b>Contact: Mr. Lawrence H. Barnes</b>	<b>Telephone: (202) 274-5263</b>
<b>Director, Office of Grants Admission</b>	<b>Fax: (202) 274-5264</b>
	<b>Email: <a href="mailto:jbarnes@udcvm.bitnet">jbarnes@udcvm.bitnet</a></b>

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry		Bachelors

**Laboratories and Other Facilities and Equipment**

There are active research projects in biochemistry, inorganic, organic and physical chemistry, as well as in chemical education. The Chemistry Department has well-equipped teaching and research laboratories. Among the instruments available are modulated frequency quadrupole mass spectrometer; and argon ion, twenty watt laser; two NMR spectrometers - one with furrier transform; atomic absorption; UV-VIS and IR spectrophotometers, two with furrier transform; HPLC and gas chromatographs; a stopped flow kinetics system; electrochemical system and computer which are used for both research and teaching.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
George Eng	Ph.D.	Chemistry	Structured Activity Studies; Substituted Triphenyltin Fungicides Against Ceratecystis Ului; Specialization of Triphenyltin Compounds in Sediments/Water Using Mossbauer Spectroscopy
Norman Kondo	Ph.D.	Chemistry	MBRS - Minority Bio- Medical Research Support Program
Isadora Posey	Ph.D.	Chemistry	Differentiating Virgin from Reclaimed Lubricating Oil Using Chromatographic and Spectroscopy Techniques

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics	Statistics	Bachelors

**Laboratories and Other Facilities and Equipment**

MINITAB, SPSS AND SAS software are available in mainframe (VAX) as well as IBM (PC/AT/XT).

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
William Hawkins	Ph.D.	Mathematics	Arithmetic Algebraic Geometry; NSF
Beverly Anderson	Ph.D.	Mathematics	Educational Psychology

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Technology	Electronic Publishing Color and Computer Graphics	Bachelors

**Laboratories and Other Facilities and Equipment**

16 personal computers, 10 typesetters, laser printers and a scanner.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Thurman Turnbow	M.A.	Education	Telecommunications and Electronic Publishing
Charles Belanger	M.A.	Education	Occupational Trends and Industry Personnel Needs

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Office of Naval Research  
**Funding Level:** \$79,990      **Year:** 1987-1988  
**Project Director:** Dr. Beverly Anderson  
**Title of Project:** Navy Summer Program

**Agency:** Office of Naval Research  
**Funding Level:** \$80,886 **Year:** 1986-1987  
**Project Director:** Dr. Beverly Anderson  
**Title of Project:** Navy Summer Program

**Agency:** U.S. Navy  
**Funding Level:** \$5,000 **Year:** 1988-1989  
**Project Director:**  
**Title of Project:** Symposium on Intervention Program

**Agency:** Belvoir Research Development & Engineering Center  
**Funding Level:** \$24,914 **Year:** 1989  
**Project Director:**  
**Title of Project:** Differentiating Virgin from Reclaimed Lubricating Oils Using Chromatographic and Spectroscopy Techniques

**Agency:** ONR U.S. Navy  
**Funding Level:** \$217,385 **Year:** 1989-1992  
**Project Director:** Dr. Joseph Chi  
**Title of Project:** Heat, Moisture and Momentum Transfers in Marine Planetary Boundary Layers

**Agency:** ONR U.S. Navy  
**Funding Level:** \$8,051 **Year:** 1988-1989  
**Project Director:** Dr. Beverly Anderson  
**Title of Project:** Summer Program in Mathematics

**Agency:** U.S. Navy  
**Funding Level:** \$118,827 **Year:** 1988-1989  
**Project Director:** Dr. Joseph Chi  
**Title of Project:** Dynamics of Marine Atmospheres

**UNIVERSITY OF MARYLAND EASTERN SHORE  
Princess Anne, MD 21853**

**Contact: Catherine S. Bolek**

**Telephone: (410) 651-6714**

**Fax: (410) 661-7768**

**Email: csbolek@umes.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Environmental Sciences	Environmental Chemistry	Bachelors Masters Ph.D.
Agriculture (MEES) Program	Soil Fertility Animal Science/Plant Science	Masters Ph.D.
Agriculture Econ/Business	Agricultural Economics Agricultural Business Chemistry	Bachelors Masters
Natural Science	Chemistry	Bachelors ACS Certified Ph.D.
Food Science and Technology	Food/Meat Quality and Safety	Ph.D.
Food and Agricultural Sciences	Animal and Plant Science Food and Nutrition, AG. Ed. Ag. Econ, Natural Resource Science	Masters
Maryland Cooperative Fish and Wildlife Research Unit	Wildlife and Fisheries	Masters Ph.D.

**Laboratories and Other Facilities and Equipment**

Water, Air and Soil Pollution Labs, Gas Chromatograph; X-ray Diffraction; Microtox, Organic chemistry labs, Rotary evaporators, Nutrient management laboratory - LACHAT FLOW INJECTION –MODEL 8000 – EPA approved method for analytical determination of nitrogen (N), phosphorus (P), and other nutrients, Nutrient management research study site (attached) designed to study various mechanisms that contribute to nutrient loading to the Chesapeake Bay Watershed

Investigations include:

1. Manure management studies-surface/sub-surface,
2. managing drainage ditch ecosystems studies,
3. Use of coal-combustion by-products to minimize P levels in run-off & profile movement,
4. Fate of 2-4 & 2-6-DNT in soil ecosystems

5. Restoring submerged aquatic vegetation to the Chesapeake Bay and Coastal Bays using production agricultural techniques

Textile Research Laboratory, Environmental Control Room, 20,000 bird broiler house, 64 pen broiler research house (50 birds/pen), 18 chamber environmental house (500 birds/pen), 48 small pen broiler research room (7 birds/pen), Starter and grower research batteries, Nutrition laboratory for Proximate analysis of feed

Spectroscopic Lab: FTIR, Fluorometer, UV-Vis, Bomb Calorimer, TGA/DSC, Biological LP system (Size-Exclusion Chromatography System), 2.5 Acre Hydroponic Greenhouse Facility, 2,000 sq.ft. of research greenhouse, Laboratories: Food Microbiology, Food Safety, Food Quality, Food Chemistry, Food Processing, Sensory Evaluation, Animal Exhibition Hall, Pilot Processing Facilities, Biotechnology laboratory equipment: DNA sequencer and quantitative RT-PCR thermal cycler, Endocrinology/RIA laboratory, Large animal surgery facility, Sheep/goat feeding facilities, Swine production total confinement operation, Pastures, barns and handling facilities for large and small ruminants, Access to new Food Science Center for Technology abattoir and sensory laboratory/equipment, Aquaculture facility/laboratory, Vehicle and vessel fleets, Field and laboratory equipment for student and staff.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Gian Gupta	Ph.D.	Environmental Chemistry	Water, Air & Soil
Ghislain Mandouma	Ph.D.	Organic Chemistry	Novel Carbon Allotropes: Synthesis Aromaticity and Antiaromaticity
Ejigou Demissie	Ph.D.	Agricultural Economics	Small Scale Agriculture Trade & Rural Development, Marketing & Policy
Arthur L. Allen	Ph.D.	Soil/Plant Science	Nutrient Management
Anugrah Shaw	Ph.D.	Textile Technology	Protective Clothing for Pesticide Applicators
William B. Talley	Ph.D.	Rehabilitation	Multicultural Approaches to Counseling; Prediction of Client Outcomes in Private & Public Sector Populations
Clayton W. Faubion	Ph.D.	Psychology	Counselor Satisfaction in the Workplace
E. Maryam Rahimi	Ph.D.	Higher Education Rehabilitation Services	Multicultural Issues in Counseling
Gail M. Lankford	Ph.D.	Guidance and Counseling	Poverty as a Subculture

Yan Waguespack      Ph.D.              Physical/Analytical  
Chemistry

**Research Specialty**

- 1) Investigation of the interaction of colloid particles with active anodic sites on stainless steel and titanium metal surfaces.
- 2) Marine and environmental science studies: Determine sublethal physiological effects of heavy metal on ecologically key marine and aquatic organisms by using <sup>31</sup>P NMR, AAS and ICP-AES.
- 3) Phyto remediation of heavy metal ions.
- 4) Spectroscopic studies of biological AOT reversed micelles, nanoparticles and novel organo gel system.
- 5) Experimental probes of exciton dynamics and analysis of inorganic manganese (II) salts and Pt, Rh, Ir compounds.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Thomas S. Handwerker	Ph.D.	Horticulture	Hydroponic/Network Production Systems, AlternativeCrop Production, Grower Network Cooperatives
Salina Paryeen	Ph.D.	Food Science	Food Microbiology
Jurgen Schwarz	Ph.D.	Food Science	Food Processing
Voranuch Suvanich	Ph.D.	Food Science	Food Safety
Niki Whitley	Ph.D.	Animal Physiology	Nutrition/Reproduction Interactions
James W. Wiley	Ph.D.	Biology Conservation	Biology, Neotropical Ecology, Ornithology

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business and Technology		

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Ayodele Julius Alade	Ph.D.	Industrial Economics	Industrial Structure and the Application of Operations Research/Management Techniques to Industry,

Vernon Burza	JD, CPA	Accounting and Law	Financial Analysis, and Production Management
Monisha Das	Ph.D.	Internatioal Business and Marketing	N/A Market Analysis in Energy and Technology Development
Elsayed Sameh Ahmed	Ph.D.	Accounting	Accounting Information and International Accounting Trends
Retta Guy	M.P.A., Ed.D	Curriculum and Instruction	Distance Education in Web- Based Professional Development and Instructional System Design
Nagy Habib	Ph.D.	Economics (Money and Banking)	Financial Markets and Productivity Growth
William Hummer	M.S., M.B.A., CPA	Accounting & CPA	N/A
Hakan Kislal	Ph.D.	Business Administration	Transnational Production System and Japanese Economic System
Diane Li	Ph.D.	Finance	Application of Statistical Techniques to Financial Markets
Dorothy Mattison	Ph.D.	Accounting	Accounting Standards and Application of Financial Theory to Industry Analysis in the Health Care Sector
Bryant Mitchell	Ph.D.	Industrial Management	Application of Management to Assessing Entrepreneurship and Organizational Behavior
Allen Sampson	M.B.A.	Marketing	N/A
Dinesh Sharma	Ph.D.	Operations Research	Mathematical Techniques and Goal Programming Approach to Industry, Operations Management and Financial Markets

### **Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** EPA  
**Funding Level:** \$74,000      **Year:** 7/1/02-6/30/03  
**Project Director:**  
**Title of Project:** Technical Science Writer for the Chesapeake Bay

**Agency:** DoD/DISA  
**Funding Level:** \$1,154,127      **Year:** 7/1/01-6/30/04  
**Project Director:**

**Title of Project:** MITSS

**Agency:** State of Maryland  
**Funding Level:** \$65,000      **Year:** 2/1/03-6/30/03  
**Project Director:**  
**Title of Project:** Displaced Homemakers

**Agency:** Eastern Shore Association of College Presidents  
**Funding Level:** \$250,000      **Year:** 6/1/99-12/21/03  
**Project Director:**  
**Title of Project:** MHEC Faculty Development Grants

**Agency:** DoD/DISA  
**Funding Level:** \$339,500      **Year:** 5/1/03-8/31/04  
**Project Director:**  
**Title of Project:** Information Assurance and Computer Security

**UNIVERSITY OF TEXAS EL PASO**  
**El Paso, TX 79968-0587**

**Contact: Dr. Paul C. Maxwell**  
**Vice President for Research and**  
**Sponsored Projects**

**Telephone: (915) 747-5680**  
**Fax: (915) 747-6474**  
**Email: pmaxwell@utep.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biological Sciences	Molecular Biology	Bachelors
	Toxicology	Masters
	Ecology	
	Parasitology	
	Biochemistry	
Microbiology	Microbiology	Bachelors
Biological Sciences	Toxicology	Doctoral
	Infectious Diseases	
	Neurological and	
	Metabolic Disorders	

**Laboratories and Other Facilities and Equipment**

**Core Facilities (supported by the Division of research Resources, NIH) -**

Cell Culture Facility provides the ability for culturing eukaryotic cell lines and tissues. The facility has Bio-safety hoods, CO<sub>2</sub> incubators, ultra low temperature storage capability for live cell lines, and sterile work areas. This core facility has dedicated staff for its operation.

The DNA Sequencing and Analysis Core Facility provides investigators with the capabilities of analyzing DNA and RNA. This facility provides support in bioinformatics analysis, and technical support for the maintenance of core equipment as well as instruction and support of investigators in nucleic acid analysis. Major equipment includes automated sequencing scanners, automated DNA miniprep capability, real time PCR, and enhanced sequence analysis software. This facility enables the construction of custom micro arrays analysis, and is intimately associated with the bioinformatics facility (now part of the Statistical Consulting Laboratory) and its large capacity for data storage and analysis.

The Biomolecule Characterization and Separations Core facility is a multi-user core that provides access to state-of-the-art equipment. The facility provides technical support and instruction in the use of the facility equipment. A partial list of instruments includes centrifuges, from low speed to ultracentrifuges, UV/vis and luminescence spectrometer,

fluorometer, luminometer, capillary electrophoresis, LCMS, liquid chromatography and HPLC units with a number of different detectors. Its mission is to provide researchers with maximal access to well-maintained, state-of-the-art equipment and to provide technical and instructional support in the use of core equipment. The latest addition is an expanded protein structure and small molecule analysis capability with sophisticated computer assisted modeling of molecular structure. The Chemistry Department adds two diffractometers, one a protein structural determination unit and a second, a single crystal diffractometer.

The Analytical Cytology Facility is a well-maintained laboratory designed for the visualization of biological structure and function. The laboratory is equipped with high-resolution electron and light microscopy coupled with the power of computerized image analysis. Confocal microscopy adds to the array of instruments that allow detailed views of life at the sub-cellular level. Visualization of environmental microorganisms, intestinal parasites, and damaged nerves and muscles are among the facility's current objectives. An Aquatic Laboratory is fully operational supporting research efforts in toxicology, cell biology, environmental biology, and ecology.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Renato J. Aguilera	Ph.D.	Immunology	Molecular Studies of Engulfment Mediated DNA Degradation
Stephen B. Aley	Ph.D.	Infectious Diseases	Molecular and biochemical parasitology; bioinformatics
Pablo Arenaz	Ph.D.	Genetics	Molecular biology/genetics; DNA repair and replication; heavy metal toxicity
Lisa J. Bain	Ph.D.	Toxicology	Mechanistic toxicology, anticancer drug resistance
William S. Baldwin	Ph.D.	Toxicology	Endocrine disruption; effects of xenobiotics; cancer etiology
Rafael D. Cabeza	Ph.D.	Neurosciences	Sleep disorder ; neuro-pharmacology; neurotransmitters
Siddhartha Das	Ph.D.	Infectious Diseases	Parasitology; phospholipids synthesis; Giardia lamblia
Joanne T. Ellzey	Ph.D.	Toxicology	Ultra structural cell biology
Kristine M. Garza	Ph.D.	Immunology	Cellular immunology: T

			cell tolerance; autoimmunity
Paul Goldstein	Ph.D.	Toxicology	Genetics; Chromosome mechanics and ultra structure
Arthur H. Harris	Ph.D.	Biology	
Louis N. Irwin	Ph.D.	Physiology	Neurobiology; astrobiology
Jerry D. Johnson	Ph.D.		Systematics; biogeography; ecology; evolutionary biology
Carl S. Lieb	Ph.D.	Biology	Herpetology; biosystematics; evolutionary genetics
William P. MacKay	Ph.D.	Biology	Desert ecology; social insect ecology; heavy metal toxicity
Sandra M. Perez	Ph.D.	Biology	Behavioral Ecology ; Monarch butterfly behavior
Todd Primm	Ph.D.	Infectious Diseases	Paleobiology, biogeography
Eppie Rael	Ph.D.	Infectious Diseases	Immunology; complement; rattlesnake venom biochemistry
Elizabeth Walsh	Ph.D.	Toxicology	Environmental toxicology; rotifer molecular biology; bioinformatics
Robert Webb	Ph.D.	Toxicology	Microbiology; molecular biology; metal ion binding; Cyanobacteria
Richard D. Worthington	Ph.D.	Biology	Chihuahuan Desert ecology
Jianying Zhang	Ph.D.	Infectious Diseases	Epidemiology; cancer- associated antigens; bioinformatics

**PROGRAM 2**

Chemistry

**SPECIALTY**

Materials Science  
Polymer Chemistry  
Inorganic Chemistry  
Environmental Chemistry  
General Chemistry

**DEGREE LEVEL**

Bachelors  
Masters

## **Laboratories and Other Facilities and Equipment**

Single-Crystal X-ray Diffraction Laboratory - This laboratory allows detailed analysis of complex molecular crystals and related new materials structures.

Thermo Gravimetric Analysis Laboratory - This laboratory houses vacuum pumps used for the evacuation of a Thermo Gravimetric Analysis unit chamber, for sample preparation purposes, and for use with an inert atmosphere system to generate gases “in-house” for corrosive applications. An Applied Test Temperature control system provides control of a large furnace for verification of thermo gravimetric data using bulk analysis. This laboratory provides the capability for accelerated testing of strategic materials, to assess the quality and performance of the material during long-term storage conditions, and for developing technology for new and advanced strategic materials, including guest host materials for magneto-optic applications.

Sol-Gel Technology Laboratory - This laboratory housing a recently upgraded Beckman High Pressure Liquid Chromatography unit and a U6K injector is used to develop thin films of silicon based materials on soda-ash glass for solar cell applications and technology transfer.

Equipment- Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES) . This technique provides determination of the concentrations of up to 72 elements simultaneously. Although ICP-OES is not as sensitive as ICP-MS it can play a role as a screening technique, to quantify elements at higher concentrations, which may cause problems with ICP-MS analysis.

Graphite Furnace Atomic Absorption Spectroscopy(GFAAS) - This technique is one of the most tried and tested methods in analytical chemistry to determine trace levels of metals in many different matrices without many of the interferences observed in ICP-MS.

Perkin Elmer 4300 ZL graphite furnace atomic absorption spectrometer - In addition, to solution sampling, with the proper NIST reference standards, it can be used to do solid sampling or direct sampling of the air filters. This will provide a better concentration analysis as there are no problems of sample loss during the transferring and dilution of digested solutions. Primarily this technique will be used to verify the dissolution concentrations of the air filters obtained by either ICP-OES or ICP-MS.

3100 Perkin Elmer flame atomic absorption spectrometer with a hydride generation system, a 4100 ZL Perkin Elmer Zeeman graphite furnace atomic absorption spectrometer, an EG&G Model 394 electrochemical trace analyzer, a Hewlett Packard 5890 gas chromatograph, a Hewlett Packard 5972 gas chromatograph/ mass spectrometer, a Bruker 250 MHZ solid-state nuclear magnetic resonance (NMR), a Bruker 300 MHZ multi-nuclei NMR, an electro scan environmental scanning electron microscope model 2020. In addition, the Department of Chemistry has a Perkin Elmer 1600 FT/IR and three UV/VIS spectrometers, a X-Ray Protein Diffractometer, Laser Roman microprobe 2000, Olympus scanning confocal microscopy, thermo gravimetric

analyzer, fiber optics spectra analyzer, Kevex omicron X-ray micro fluorescence spectrometer equipped with energy dispersive solid-state detector, nanoscope scale II, atomic force microscope nanoscope scale III, thermo gravimetric analyzer, SPEX, Siemens X-ray diffractometer, and FT infra red spectrometer.

**VIRGINIA STATE UNIVERSITY**  
**Petersburg, VA 23806**

**Contact: Ms. Sharon Evans**  
**Office of Sponsored Research and**  
**Programs**

**Telephone: (804) 524-5280**  
**Fax: (804) 524-6518**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Molecular Biology	Bachelors
	Parasitology	Masters
	Plant Cell Culture	
	Cell Culture	
	Cell Biology	
	Microbiology	
	Botany	

**Laboratories and Other Facilities and Equipment**

The Cell biology laboratory has a functional tissue culture area where mammalian cell lines are maintained and used as model cell systems to monitor the effects of various compounds on cell proliferation, cell morphology, DNA synthesis protein synthesis. The Parasitology laboratory facility in Owens Hall is designed for biomedical research. The area is composed of an animal housing room, a research laboratory, and a teaching laboratory. The research involves the effects of novel drugs synthesized in the Chemistry Department at Virginia State on eradication of trypanosomes.

Tissue culture components, gas chromatogram, EEG Recording Equipment, Carbon dioxide Incubator, Liquid Scintillation Counter with recorder, Centrifuge Machines, Electron Microscope and accessories, Hematological Units, other conventional laboratory equipment are a few along with the existing faculties. Scanning electron microscope; high-speed centrifuge; growth chamber; tissue culture microscopes; scanning UV-VIS spectrophotometer; high performance liquid chromatography system; water still, incubator, fraction collector, fermenter, balances.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dilip K. Sen	Ph.D.	Biology	Zoology
Regina Knight-Mason	Ph.D.	Biology	Genetics

Ali Mohamed                      Ph.D.                      Biochemistry/Nutrition Plant Science & Nutrition

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry	Inorganic	Bachelors

**Laboratories and Other Facilities and Equipment**

Laboratory equipped with major equipment including: High-performance liquid chromatographs; UV VIS scanning spectrophotometer; fourier transform infrared spectrometer; NMR spectrometer; gas chromatograph; liquid chromatographs, differential thermal analyzer; atomic absorption unit, three instruments each containing a GCMS, two HPLCs, two UV-Vis spectrophotometers, and ion chromatographs, a differential scanning meter and fluorescence spectrophotometer and numerous computers available including a RISC-6000. Laser systems and electrophoresis equipment is available.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Godwin O. Mbagwu	Ph.D.	Chemistry	Synthesis; Spectroscopy Evaluation of Heterocyclic, Cancer Research

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Physics	Laser Induced in Semi-Conduction Reactor Physics, Spectroscopy, Super Conductivity, Muon Spin Rotation	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Laser Physic Research Laboratory equipped with Quantel Q-switched Nd: YAG Laser to have the following characteristics: repetition rate (10 to 20 Hertz, Energy per pulse (320 millijoules), Wavelength (1.06 microns) and Pulse duration (8 to 0 nanoseconds); Laboratory to contain accessories for performing laser induced damage studies at semiconductor surface.

The magnetism lab contains the world's most precise magnetometer, of new design conceived and constructed by Dr. Anthony Arrott, Distinguished Senior Research Professor of Physics. It includes 5.0 Telsa superconducting magnet, a linear motor with 1.0 micron accuracy, plus the necessary probes, electronics and computer interface. A 2.5 Telsa Walker Scientific electromagnet, which is also available for magnetometry, is

in the lab as well. A puck and saucer mill, annealing furnace, desiccators/glove box and accessories for producing noncrystalline alloy samples are located in a nearby room. The lab also contains a Perkin Elmer differential scanner calorimeter for thermal characterization of samples. Further, we are developing a low temperature calorimeter system based on a custom built Termis calorimeter dewar insert.

In addition to the equipment used in studying magnetism, the VSU physics area has developed a laser laboratory and has a quantity of fast electronics instruments for use in nuclear physics research.

The physics research programs at VSU also owns an Oxford Instruments dilution refrigerator with a base temperature of 8.0 Mk. This device has been moved to the Tri University Meson Facility (TRIUMF) in Vancouver, BC, where VSU faculty and graduate students will use in collaboration with scientist from the University in British Columbia to study the interactive of radioactive ions with materials at ultra low temperatures in the new ISAC facility.

**Researchers: Academic Backgrounds & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Carey E. Stronach	Ph.D.	Physics	Muon Spin Rotation, Magnetic Properties of Matter, Super-Conductivity
George Henderson	M.S.	Physics	Laser
David Noakes	Ph.D.	Physics	Muon Spin Relaxation in Solids, Particle-Beam Probes of Magnetism, Thermal Neutron Scattering
Anthony Arrott	Ph.D.	Physics	Muon Spin Rotation Micromagnetics; Thermal Neutron

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Information Systems & Decision Sciences	Information System Decision Sciences	Bachelors

**Laboratories and Other Facilities and Equipment**

Three Sun Work stations running UNIX OS, an IBM AS-400 mid-range computer, five electronic classrooms with over 100 workstations, one general purpose computer lab with over 30 personal computers, and one special purpose multi-platform computer lab. E-learning lab.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Work, Sociology and Criminal Justice	General Sociology Criminal Justice	Bachelors

**Laboratories and Other Facilities and Equipment**

Sociology laboratory with Computers and Social Work Laboratory with Videotaping.

The Forensic laboratory introduces students to many of the areas of forensic science. The lab is equipped with laptop computers, scanners, printers, microscopes, Omniprint 1000 (finger printing), finger print magnifier, amidoblack, finger print tape, dual cartridge respirators, crime scene florescent kits, ultra-violet kits, surgical masks, and digital monitor headphones.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mokerrom Hossain	Ph.D.	Sociology	Social Sciences
Ghyasuddin Ahmed	Ph.D.	Sociology	Social Sciences

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Engineering, Engineering Technology and Industrial Education & Technology	Mechanical Engineering Electronics Engineering Manufacturing Engineering	Bachelors

**Laboratories and Other Facilities and Equipment**

Electronics Engineering - the lab facilities will be supplemented by the use of video resources, microprocessor trainers, and the use of computers to solve problems and design analog and digital circuits.

Mechanical Engineering - laboratories have computer aided drafting, materials testing and hydrophilic and pneumatic systems.

The Center for Automation and Robotics will concentrate on research and innovation work in the common area of automation and robotics. The research activities will include the development and application of robotics technology as well as gaining new

knowledge in these fields. The Center will also focus on providing engineering solutions to industrial automation problems.

At present, the focus of our Center is to train students interested in this area by offering some projects in automation and robotics. Last semester, a joint team of students from manufacturing engineering, electronics technology, and mechanical technology designed and fabricated pneumatic pick and place robotic arm. Students learned about the mechanical and pneumatic components as well as programmable logic controllers. This semester students are working on several projects including remote automation, vibration control of robotics, and computer based automation.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ali Ansari	Ph.D.	Computer Engineering	
Stephen Tompkins	Ph.D.	Mechanical Engineering	Composite Materials; Heat/Mass Transfer
Nasser Gariban	Ph.D.	Manufacturing Engineering	Robotics and Automation
Amir Javaheri	Ph.D.	Manufacturing Engineering	
Salame Amr	Ph.D.	Electronic Engineering	
Sandeep Ahuja	Ph.D.	Mechanical Engineering	
Jahangir Ansari	Ph.D.	Manufacturing Engineering	

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Psychology	General, Clinical or Educational Psychology	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Personal computers and accompanying software.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 8**

Math and Computer Science

**SPECIALTY**Mathematics, Statistics  
Theory, Design and  
Application of Computers**DEGREE LEVEL**Bachelors  
Masters (Math)**Laboratories and Other Facilities and Equipment**

Math/computer labs, Mobile lab with twenty-one personal computers.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 9**

Agriculture Research

**SPECIALTY**Plant Science  
Animal Science  
Aquaculture**DEGREE LEVEL**Bachelors  
Masters**Laboratories and Other Facilities and Equipment**

The 456 acre Randolph Farm located two miles from the main campus provides excellent field facilities to conduct agricultural research. Thirty-seven (37) research ponds are located on Randolph Farms for Aquaculture research. The new research facility consists of 22 research laboratories, 24 offices, a climatically controlled greenhouse, a department research library, experimental animal laboratory, chemical storage facilities.

The research laboratories are furnished with modern equipment to conduct research to seek solutions to the agricultural research problems. Other support units include up-to-date computer facilities with on-line literature searches, data acquisition, scanning, and statistical capabilities. There is a photography graphics unit to assist scientists in preparation of research results for publication in referred journals.

**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH  
SPECIALTY**

Mark Kramer

Ph.D.

Entomology

Pest Management  
Resistance of Soy Beans to  
Insect Pests

Tadesse Mebrahtu

Ph.D.

Agronomy

Plant Breeding

Wondi Mersie

Ph.D.

Plant Physiology

Weed Science

Brian Nerrie

Ph.D.

Aquaculture

Production Economist  
Water Quality

Stephen Wildeus      Ph.D.      Genetic Resources and  
Production Systems  
for Hair Sheep and Meat  
Goat Breeds

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Department of Defense  
**Funding Level:** \$30,000.00      **Year:** 8/02-5/04  
**Project Director:** Dr. Carey Stronach  
**Title of Project:** Scholarship for Students Studying Micromagnetics

**Agency:** Department of Defense  
**Funding Level:** \$30,000.00      **Year:** 8/02-5/04  
**Project Director:** Dr. Carey Stronach  
**Title of Project:** Fellowship for Student Research in Micromagnetics

**Agency:** Air Force Office of Scientific Research  
**Funding Level:** \$587, 580.00      **Year:** 10/01-08/04  
**Project Director:** Dr. Carey Stronach  
**Title of Project:** Center for Interactive Micromagnetics

**Agency:** Air Force Office of Scientific Research  
**Funding Level:** \$453,300.00      **Year:** 08/00-12/02  
**Project Director:** Dr. Carey Stronach  
**Title of Project:** Mechanically Milled Iron Alloys for High Temperature  
Magnetic and Structural Applications

**Agency:** Department of Defense  
**Funding Level:** \$194,540.00      **Year:** 09/99-08/00  
**Project Director:** Dr. Carey Stronach  
**Title of Project:** Magnetic Materials Laboratory Development

**Agency:** Ballistic Missile Defense Organization  
**Funding Level:** \$119,478.00      **Year:** 08/99-09/00  
**Project Director:** Dr. Carey Stronach  
**Title of Project:** Microscopic Characterization of Novel Magnetic Materials  
with  
Potential for Major Technological Impact

**Agency:** Department of Defense  
**Funding Level:** \$180,000      **Year:** 08/03-08/04  
**Project Director:** Dr. Ade Ola  
**Title of Project:** Assorted Learning Channels for Science, Mathematics, and  
Engineering Students

**WEST VIRGINIA STATE COLLEGE**  
**Institute, WV 25112**

**Contact: Dr. Byers**

**Telephone: (304) 766-3000**

**Fax:**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Microbial Ecology Smooth Muscle Physiology Bioreactor Studies Aquaculture	Bachelors

**Laboratories and Other Facilities and Equipment**

Hamblin Hall Sciences building is home to the Academic Departments of Biology, Chemistry, and Physics, and WVSC Computer Services. Renovations to the original 45,000 sq. ft. building were completed in 1990, when the building was nearly doubled in size to the current total gross area of 75,000 sq. ft. In addition to the labs and classrooms described below, there are additional rooms dedicated to equipment and chemical storage.

The BIOPLEX Research Facility is located on the west end of campus and comprises the pilot plan digester, 75 raised bed field plots, each 10 m. x 1 m.; the digester control room; two storage sheds; and two greenhouses.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mark Chatfield	Ph.D.	Botany	Plant Physiology; Molecular Biology of Nitrogen Fixation
Jonathan C. Eya	Ph.D.	Fisheries Science	Aquaculture; use of Bioreactor Treated Poultry Wastes as Proteins Source in Fish Foods
Robert T. Harris	Ph.D.	Vertebrate Physiology	Muscle Biochemistry and Physiology
David H. Huber	Ph.D.	Botany Plant Pathology	Microbial Ecology; Molecular Analysis of

Barbara E. Liedl	Ph.D.	Horticulture	Bioreactor Microbial Communities Horticulture; Use of Bioreactor Treated Poultry Waste Effluent as Liquid Fertilizer for Greenhouse Crops; Crop Breeding
Timothy R. Ruhnke	Ph.D.	Zoology Ecology	Invertebrate Zoology; Molecular and Morphological Systematics of Marine Cestodes

**PROGRAM 2**

Chemistry

**SPECIALTY**

Organic Synthesis  
Acid Mine Drainage Remediation  
Photochemistry  
Analytical Chemistry

**DEGREE LEVEL**

Bachelors\*\*\*  
\*\*\* ACS accredited

**Laboratories and Other Facilities and Equipment**

Hamblin Hall Sciences building is home to the Academic Departments of Biology, Chemistry, and Physics, and WVSC Computer Services. Renovations to the original 45,000 sq. ft. building were completed in 1990, when the building was nearly doubled in size to the current total gross area of 75,000 sq. ft. In addition to the labs and classrooms described below, there are additional rooms dedicated to equipment and chemical storage.

The BIOPLEX Research Facility is located on the west end of campus and comprises the pilot plan digester, 75 raised bed field plots, each 10 m. x 1 m.; the digester control room; two storage sheds; and two greenhouses.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 3**

Biotechnology

**SPECIALTY**

**DEGREE LEVEL**

M.S./M.A.\*\*\*  
\*\*\* Approved Fall 2003; complete implementation Fall 2004

### **Laboratories and Other Facilities and Equipment**

Hamblin Hall Sciences building is home to the Academic Departments of Biology, Chemistry, and Physics, and WVSC Computer Services. Renovations to the original 45,000 sq. ft. building were completed in 1990, when the building was nearly doubled in size to the current total gross area of 75,000 sq. ft. In addition to the labs and classrooms described below, there are additional rooms dedicated to equipment and chemical storage.

The BIOPLEX Research Facility is located on the west end of campus and comprises the pilot plan digester, 75 raised bed field plots, each 10 m. x 1 m.; the digester control room; two storage sheds; and two greenhouses.

### **Researchers: Academic Background & Research Specialty(ies)**

Faculty members from the Departments of Biology and Chemistry will deliver the program.

### **Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated.

**WILBERFORCE UNIVERISTY**  
Wilberforce, OH 45384

**Contact: Mr. Marshall Mitchell**  
Vice President of Institutional  
Advancement

**Telephone: (937) 708-5709**  
**Fax: (937) 376-2627**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Biology	Nutrition & Molecular Biology	Bachelors

**Laboratories and Other Facilities and Equipment**

The two biology laboratories on the third floor of the King Science building standard pieces of lab equipment for most biological experiments. There are 24 compound microscopes, 10 dissecting microscopes, a Labline Biotronette Mark III Environmental Chamber, a lamina flow hood for biological containment, four Spectronic-20 spectrophotometers, an incubation oven, a surgical oven, an EDT Castle Autoclave, a Brinkman Eppendorf Centrifuge, a refrigerated Eppendorf micro centrifuge, a unrefrigerated Eppendorf micro centrifuge, two refrigerators, a -20 °C freezer, a bench top unrefrigerated shaker, a Reichart-Jung Darkfield colony counter, an ENM Hand/Desk Counter, a Geltech electrophoresis unit, three mini-sub gel and three midi-sub gel electrophoresis units, a sphygmomanometer, and several electronic balances

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Hammed Agboola	Ph.D.	Biological & Animal Science	Body Composition & Nutrition
Makalakshmi Nagarajan	Ph.D.	Molecular & Cellular Biology	Molecular Biology

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry	Inorganic/Synthesis/Spectroscopic & Chromatographic Analysis	Bachelors

**Laboratories and Other Facilities and Equipment**

The general chemistry lab is equipped with several pH meters, three Spectronic-20

spectrometers, three electronic balances and the standard pieces of glassware and equipment needed for most laboratory experiments. The organic laboratory has a melting point apparatus, a student gas chromatograph, a Waters HPLC with UV detector, a rotovap and several hotplate/magnetic stirrers in addition to the micro scale glassware needed for most organic experiments. The chemical research lab has two multi-step programmable high temperature furnaces that reach 1200°C, a Fourier transform infrared spectrophotometer, an inert gas dry box, an ultra-low pressure vacuum line, glass blowing equipment, a laboratory press, an electronic balance and an assortment of other laboratory glassware and equipment commonly found in chemistry.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Delbert Buffinger	Ph.D.	Chemistry	Solid State Inorganic Chemistry/Materials Science
David Griffith	Ph.D.	Chemistry	Separation Science, & Chromatographic Methods
Tuhfeh Habash	Ph.D.	Chemistry	Thermal & Spectroscopic Chemicals; Analyses & Polymer Characterization
Anooshirvan Jafari	Ph.D.	Physics	Solid State/Color Centers Radiation Induced Interstitial in RbCaF <sup>3</sup>

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Electrical & Computer Engineering	Integrated Circuit Design Computer Architecture	Bachelors
Computer Science	Programming Software Engineering & Computer Interface Design	Bachelors

**Laboratories and Other Facilities and Equipment**

Located on campus is a Cluster of the Ohio Super Computer Center with 16 Xeon Processor machines. A well-equipped computer laboratories with Pentium IV computers loaded with C/C++, Java, Math lab, B2 Logic, Windows NT, and Mechanical Desk Top for AutoCAD.

The Electronics Laboratory is equipped with Analog Oscilloscope, DC Power Supply, Digital Multimeters, Function Generators, Circuit Design Trainers. Microprocessor

Design Systems, General Cross Assemblers, Board Router Spice Creators, 80552 Development Boards, DSP Design Tutors, and XC2S100 FPGA Boards

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Office of Naval Research  
**Funding Level:** \$1,000,000 **Year:** 1999-2004  
**Project Manager:** Dr. Edward Asikele  
**Title of Project:** ONR/MPECS Scholars Program & Infrastructure Development

**Agency:** OSGC/NASA  
**Funding Level:** \$10,000 **Year:** 2003  
**Project Manager:** Dr. Edward Asikele  
**Title of Project:** Ohio Space Grant Scholars Program

**Agency:** US Department of Energy  
**Funding Level:** \$110,000 **Year:** 1996-1997  
**Project Manager:** Dr. Edward Asikele  
**Title of Project:** Co-Generation Scheme for Carbon Fiber Production

**Agency:** National Renewable Energy Laboratory  
**Funding Level:** \$180,000 **Year:** 1995-1996  
**Project Manager:** Dr. Edward Asikele  
**Title of Project:** Alternate Energy Photovoltaic Research

**WINSTON-SALEM STATE UNIVERSITY**  
**Winston-Salem, NC 27110**

**Contact: Ms. Valerie Howard**  
**Office of Sponsored Programs and**  
**Research**

**Telephone: (336) 750-2410**  
**Fax: (336) 750-2412**  
**Email: howardv@wssu.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Life Sciences	Molecular Biology Neurotoxins Protein in Breast Cells Enzyme Changes in Aging Subsets of Human Monocytes	Bachelors

**Laboratories and Other Facilities and Equipment**

The university engages in a wide variety of research involving the sciences, mathematics engineering and computer-related fields Campus Facility and Several Laboratories support the Life Sciences area The Open Access Lab is available to the entire university which has 24 PC's, Pathworks LAN with SUN workstations. Devices attached to the Sun Network which runs UNIX include an Appletalk network, six Apple computers, two modems, a tape drive, laser printer and CD Rom.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Azeez Aileru	Ph.D.	Life Sciences	Neuroplasticity in Hypertension
Dr. Nathaniel Hewett	Ph.D.	Life Sciences	Enzyme Changes in the Aging Process
Dr. Bodiford Stackhouse	Ph.D.	Life Sciences	Role of p53 protein in Breast Cancer Cells

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Health Profession	Nursing Medical Technology Physical Therapy Administration Adult Health	Bachelors Masters Masters

### **Laboratories and Other Facilities and Equipment**

Campus facility and working relationship with area hospitals

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jim Abraham	B.S., M.S.	Clinical Lab Science	Higher Ed., Quality Assurance
Lynn Babington	Ph.D., M.S.N.	Nursing	Health Outcomes at the Community Level
Lenora Campbell	Ph.D.	Nursing	Grandparent Family Dynamics
Cathy Canzona	Ph.D.		Adult Health
Sue Hunter	Ed.D.	Nursing	Family Nursing
Alice Johnson	Ph.D., M.S.N.	Nursing	Learning Styles Curriculum and Supervision of Nursing
Nancy McInnis	M.S.N.	Adult Health	Communication and Learning Disabilities
Bonnie Pope	M.S.N.	Nursing	Maternal Newborn
Lenner Jefferies	M.S.N.	Nursing	Adult Health
Sadie Webster	Ed.D., M.S.N.	Nursing	Educational Administration
Charlena Garrison	M.S.N.	Adult Health	End of Life Decisions/ Gerontology

### **PROGRAM 3**

Physical Sciences

### **SPECIALTY**

Physical Sciences

### **DEGREE LEVEL**

Bachelors

### **Laboratories and Other Facilities and Equipment**

Campus Facility and Several Laboratories.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jill Harp	Ph.D.	Physical Sciences	Synthesize Pepper dines to Study the Effect of these Compounds on the Cocaine Addiction of Mice and Rats
Astor Herrell	Ph.D.	Physical Sciences	
Deva Sharma	Ph.D.	Physical Sciences	Range-energy calculations for electrons. Using computers and multi-media in education
Nathan Stump	Ph.D.	Physical Sciences	Lanthanide and actinide spectroscopy for analytical, optical, and waste disposal application
Sirham I. Rahhal	Ph.D.	Physical Sciences	Reduction of Hydrogen Peroxide by iron complexes

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer & Information Sciences	Program & Analysis	Bachelors

### **Laboratories and Other Facilities and Equipment**

The Computer Science Program is supported by two sets of hardware facilities provided by the Academic Computer Center and the Computer Science Department. The Academic Computer Center is located on the lower level of the R.J. Reynolds Business Center. The mainframe computer is an Alpha 4000 with 256 MB of primary memory and 12 GB disk space, a laser printer and a 1200 lpm line printer. There are three laboratories connected to the Alpha - - the Open Access Lab, the DEC Programming Lab, and the Teaching Lab. The Computer Science Department is located in Carolina Hall. Departmental computing facilities include the Computer Literacy Lab and the UNIX lab.

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physical Sciences	General Chemistry	Bachelors

### **Laboratories and Other Facilities and Equipment**

Campus Facility and Several Laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated

**SECTION III**  
**Alphabetical listing of all "other" institutions**

**ALABAMA STATE UNIVERSITY**  
**Montgomery, AL 36101-0271**

*Data from 1996*

**Contact: Dr. William Brock, Director**      **Telephone: (334) 229-4429**  
**Title III & Development**                      **Fax: (334) 293-4973**  
**Email: wbrock@asunet.alasu.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
History	General Curriculum	Bachelors
Mathematics		
Biology		
Biochemistry		

**Laboratories and Other Facilities and Equipment**

None Indicated

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dorothy A. Autry	Ph.D.	History	Black History/Civil Rights, Southern Black History
Beverly Allen	Ph.D.	Physical Education	Dance, Motor Development
James Anzulovi	Ph.D.	History	History, Military, Russian
Thomasena Austin	M.A.	English	High School Dropout Rate
Arthur Barnett	M.B.A.	Marketing	Marketing/Consumer Research
David Iyegha	Ph.D.	Geography	Urban, Rural Development
John Baker	Ph.D.	Urban Education	Behavioral Studies/Survey

Susanta Ghorari	Ph.D.	Physics	Nuclear Physics
Thelma Ivery	Ph.D.	Biochemistry	Sulphydryl Enzymes
Ki Hang Kim	Ph.D.	Mathematics	Symbolic Dynamics
Suraj Makhija	Ph.D.	Chemistry	Non-Aquas Solvents
Wallace Maryland	Ph.D.	Mathematics	System Dynamics
William E. McNeil	Ph.D.	Clinical Psychology	Psychotherapy/Resource Management
Awais Salimi	M.A.	Mathematics	Software Engineering
Janet St. Clair	M.A.	Mathematics	Cooperative Learning
Fred Roush	Ph.D.	Mathematics	System Dynamics
Udhishtra Sharma	Ph.D.	Physiology	Physiology of Reproduction
Shiva Singh	Ph.D.	Microbiology	Outer Membrane Proteins
Roosevelt Steptoe	Ph.D.	Economics	Rural: Urban Problems
Evelyn White	Ed.D.	Biology	Training Elementary Teachers
Doris C. Vaughn	Ph.D.	Education	Personality; Self Concept
Chiou-Nan Yeh	Ph.D.	Economics	Economics Development
Yanan Yu	Ph.D.	Biomath	Stochastic Modeling Simulate

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** NASA/Johnson Space Center  
**Funding Level:** \$110,000 **Year:** 3 Years  
**Project Director:** Dr. Wallace Maryland, Jr.  
**Title of Project:** Advancement of Science, Engineering & Technology Consortium

**ALBANY STATE COLLEGE**  
**Albany, GA 31705**

<b>Contact: Mr. Andrew Floyd</b>	<b>Telephone: (229) 430-3983</b>
<b>Director, Office of Grants and</b>	<b>Fax: (229) 430-3935</b>
<b>Contracts</b>	<b>Email: affloyd@asurams.edu</b>

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology/Chemistry Physics		Bachelor

**Laboratories and Other Facilities and Equipment**

Facility with seven teaching laboratories, eight research laboratories, computer-based laboratory, green room, cold room, and supportive pieces of equipment and supplies.

One fully equipped Greenhouse, one electron microscopy lab, two lab prep rooms, one cell culture room.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Gransville Wrensford	Ph.D.	Chemistry	Petroleum/hydrocarbon Residues. Organic Contaminants in Cistern
Kwaichow Chan	Ph.D.	Physics	Valence Flucuations in Fe <sub>3</sub> O <sub>4</sub> Hyperfine Interactions
Louise Wrensford		Chemistry	Enzyme Inhibition and Reaction Mechanism Dietary Fiber Binding Interactions, Antirromagnetic Oxides
Edward Lyons	Ph.D.	Cell Biology	Copper Metabolism, Environment Biology and Environmental Pollution
JoAnn McCrary	Ph.D.	Biology/Biochemistry	Carcinogenesis (Xerobiotic Metabolism), Micro- Biology, Plant Physiology, (Botanical Medicinals)
Olatunda Okediji	Ph.D.	Cell Biology	Carcinogenesis Studies

Surendra Pandey	Ph.D.	Physics	Solid State Physics, X-Ray Diffraction, Thermomagnetic and Properties
-----------------	-------	---------	---

<b><u>PROGRAM 2</u></b>	<b><u>SEPCIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Criminal Justice		Masters

**Laboratories and Other Facilities and Equipment**

Facility with 27 laboratories and research study cubicles, audio-visual center, computer terminal room, moot courtroom , research center, testing and counseling rooms.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTIES</u></b>
Charles Ochie	Ph.D.	Sociology/Criminal Justice	Survey Research Statistics and Corrections
Zacharia Oommen	Ph.D	Forensic Sciences	Electron Microscopy (SEM and TEM), X-ray analysis; Spectroscopy and Optics Identification (e.g. gunshot residue, hair, etc.)
Glenn Zurn	Ph.D.	Criminal Justice	Corrections

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Business Administration	Masters

**Laboratories and Other Facilities and Equipment**

Modern facility with offices, classrooms, word processing laboratories, computer laboratories and seminar rooms.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTIES</u></b>
Ganiyu T. Oladunjoye	Ph.D.	Business Administration	Information Systems
Jonathan U.	Ph.D.	Business and	International

Eliminmian		Information Systems	Education/Economics
Bingguang Li	Ph.D.	Business Administration Industrial Management Systems	Engineering and MIS

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics/Computer Sciences		Bachelors

**Laboratories and Other Facilities and Equipment**

Facility with ten classrooms, three computer labs, two conference rooms, and a seminar room.

**Researchers: Academic Background and Equipment**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTIES</u></b>
Samuel Masih	M.S.	Mathematics	Topology, Computer Simulation of Mathematical as Disciplines, Multimedia Course/Curriculum Development
Marzine Green, Jr.	Ph.D.	Mathematics	Probability & Statistics
Hong Wei	Ph.D.	Computer Science	Operations Research
Connie Leggett	M.S.	Mathematics	Computer Applications
Wanjun Hu	Ph.D.	Mathematics	General Topology Logic and Theoretical Computer Science

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Military Science	United States Army	Degrees are awarded in various academic areas

### **Laboratories and Other Facilities and Equipment**

Facility with offices and classroom.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Robert Daniels	B.S.	Military	Military

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
History and Political Science	History/Political Science	Bachelors

### **Laboratories and Other Facilities and Equipment**

Simmons Hall, which houses the History and Political Science Department, has four classrooms, two conference rooms, a social science computer laboratory, a documents room, a social science resource room, and satellite receiving capabilities.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTIES</u></b>
Teresa Orok	Ph.D.	Public Administration	Developmental Disabilities, Urban Studies, Urban Planning, At-Risk Youth
Michael Orok	Ph.D.		Public Administration, Urban Politics, African Politics
Sharon Tucker	J.D.	Legal Student	Judicial Procedures, Constitutional Law, Family Law, Evidence

### **Recent DoD/Other Contract/Grant/Procurement Experiences**

<b>Agency:</b>	U.S. Department of Defense	
<b>Funding Level:</b>	\$178,000	<b>Year:</b> 2003-04
<b>Project Director:</b>	Dr. Zacharia Oommen,	
<b>Title of Project:</b>	Forensics Instrumentation	

**ALLEN UNIVERSITY**  
**Columbia, SC 29204**

**Contact: Mrs. Kristy Sinkfield**

**Telephone: (803) 376-5789**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business Administration	Accounting General Business Management Information Systems	Bachelors of Arts

**Laboratories and Other Facilities and Equipment**

Computer laboratory

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Religion	Pastoral Ministry	Bachelor of Arts

**Laboratories and Other Facilities and Equipment**

None indicated.

**Recent DoD/Other Contract/Procurement Experience**

None indicated.

ATLANTA METROPOLITAN COLLEGE  
Atlanta, GA 30310

*Data from 1996*

Contact: Dr. Christi Unger Laws  
Assistant to the President

Telephone: (404) 756-4047  
Fax: (404) 756-4460

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		Associate

**Laboratories and Other Facilities and Equipment**

Facility with two teaching laboratories and one Audio-Tutorial laboratory to facilitate self-paced instruction.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Sandra Demons	Ph.D.	Science Education	Anatomy and Physiology Emphasis
Samuel Hagan	Ph.D.	Substrate Binding Studies	Hazardous Waste Disposal
Barbara Morgan	Ph.D.	Science and Education	

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry		Associate

**Laboratories and Other Facilities and Equipment**

Facility with one laboratory and video tape viewing rooms to permit video-base training for laboratory experience.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 3****SPECIALTY****DEGREE LEVEL**

Computer Science

Associate

**Laboratories and Other Facilities and Equipment**

Facility with two laboratories equipped with Ca. 30 PC/Compatibles, Local Area Network, Micro VAX II Server, High speed remote communications equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Zacharia Manare	Ph.D.	Modula 2C	
Babatunde Onabanjo	Ph.D.	Cobol	Business Applications
Joseph Patterson	Ph.D.	Graphics	Fortran, Graphics

**PROGRAM 4****SPECIALTY****DEGREE LEVEL**

Physics

Associate

**Laboratories and Other Facilities and Equipment**

Facility with one teaching laboratory and one optics/computer lab equipped with high speed work stations.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jagdish Agrawal	Ph.D.	Computer Based Physics	Laboratory
Joseph Patterson	Ph.D.	Computerized Physics Instruction	

**PROGRAM 5****SPECIALTY****DEGREE LEVEL**

Humanities &amp; Fine Arts

English/Communications  
Developmental Studies

Associate

### **Laboratories and Other Facilities and Equipment**

Language Center, including audio-tutorial programs, word processing capabilities and tutorials, computer-assisted instruction, and special materials for students needing to move from the community dialect into standard written and spoken American English.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Simon Grist	Ed.D.	Reading Test Specialist	
Philip Scriven	Ph.D.	Reading Specialist	
Beverly Head	D.A.	Writing Specialist	
Helen McKinney	Ph.D.	ESL Language	
Janis Redi	D.A.	Writing Specialist	

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Business Administration Business Management Computerized Office Management	Associate

### **Laboratories and Other Facilities and Equipment**

Faculty with two teaching laboratories and one computer lab equipped with high speed work stations and special materials designed for computerized business applications.

### **Laboratories and Other Facility and Equipment**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Carolyn Conley Gregg	M.B.A./M.S.	Information Systems	

### **Recent DoD/Other Contract/Grant/Procurement Experience**

<b>Agency:</b>	University System of Georgia	
<b>Funding Level:</b>	\$130,000	<b>Year:</b> 1995-1998
<b>Project Director:</b>	Dr. Barbara Morgan and Dr. Marie Foley	
<b>Title of Project:</b>	The Pre-Engineering Technology Bridge Program	

**Agency:** NIH  
**Funding Level:** \$ **Year:** 1994-1996  
**Project Director:** Dr. Barbara Morgan  
**Title of Project:** Collaborative for the Promotion of Minorities in Science (CPMS)

**Agency:** NIH  
**Funding Level:** \$ **Year:** 1994-1996  
**Project Director:** Dr. Jack Morrell and Dr. Barbara Morgan  
**Title of Project:** Project SMART (Science and Math are Right Together)

**BARBER-SCOTIA COLLEGE**  
Conrad, NC 28025

*Data from 1996*

**Contact: Dr. Mary Ann Medlin**  
**Institutional Research**

**Telephone: (704) 793-4912**  
**Fax: (704) 786-4615**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science/Mathematics	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer Science Laboratory with 27 IBM Personal System II, Model 25 computers and three (3) Model 30 computers.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Julian Pyles	Ph.D.	Mathematics	Impact of Test-Walking Workshops on GRE Performance of BSC Seniors; Micro components in Teacher Education and Teaching Recall and Recognition Skills
Ping May	Ph.D.	Mathematics	MISIP; Software for Teaching Mathematics

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Teacher Education	Elementary Education	Bachelors

**Laboratories and Other Facilities and Equipment**

The Elementary Education is supported by a Curriculum Materials Center and a simulated classroom laboratory. State and local school agencies support the program.

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Gwendolyn Cunningham	M.A.	Elementary Education	Teacher Education

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated.

**BENEDICT COLLEGE**  
**Columbia, SC 29204**

**Contact: Dr. Stacey Franklin Jones**                      **Telephone: (803) 253-5304**  
**Dean, School of Science, Technology,**            **Fax: (803) 253-5401**  
**Engineering and Mathematics**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Health-related Fields (Pre-Med) Environmental Health Science Graduate School Preparation	Bachelors

**Laboratories and Other Facilities and Equipment**

Six individual faculty research labs; tissue culture facilities and equipment, radioisotope lab: a) Cell Culture Laboratory, b) Developmental Biology Laboratory, c) Molecular/Biochemistry Laboratory, d) NIH Certified Mouse Lab, e) Cell Culture Facility, f) DHEC Licensed Radiation Facility, g) Dark Room Facility, h) Walk-in Cold Room, i) Liquid and Solid Materials Sterilization Equipment, j) Equipment: Thermal Cyclers; DNA, RNA, and Protein Transfer Systems; Low Speed and Ultra Speed Centrifuges; Liquid Scintillation Counter; Spectrophotometers; Water Purification Systems; DNA Sequencing and Imaging System; Protein, DNA and RNA Electrophoresis Systems; Refrigerators and Ultra Low Freezers; Alumni Computer Network (Specifically for the Science Research Faculty); Chemical Storage Facilities; and Wash Sinks.

**Researchers: Academic Background & Research Specialty(ies)**

- Eight (8) Researchers as Principal or Co-Principal Investigators
- Seven (88%) of the Eight Hold the Ph.D. Degree
- Four (50%) of the Eight have Post Doctoral Experience
- Research Specialties Include: Molecular Biology, Developmental Biology, Cell Biology, Microbiology, Environmental Justice and Environmental Pollution

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Inorganic, Organic, Physical, Analytical & Biochemistry	Bachelors

### **Laboratories and Other Facilities and Equipment**

None Indicated.

### **Researchers: Academic Background & Research Specialty(ies)**

Ph.D. - Western Michigan University, Kalamazoo MI, Masters - Ohio University, Athens, OH, Bachelors - Hastings College, Hastings, NE

Research Interest - NanoSciences, Material Science, Silicones and Polymers

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science	Algorithms, Digital Signal Processing, SW Engineering, Interactive Multimedia	Bachelors

### **Laboratories and Other Facilities and Equipment**

Mathematical Sciences Computing Lab: 24 Dell Optiplex Workstations with Window XP. MATLAB and AutoCAD Software are installed on these systems.

Engineering Computing Lab: 30 Dell Optiplex workstations with Window 2000. 802.11g wireless LAN. MATLAB Visual studios are installed on these systems.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Stacey Franklin Jones		Computer Science	Algorithm Design and Optimization, Digital Signal Processing, Software Engineering and IMM Background
Songhui Zhu			Research in Algorithms for Complex Computing

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics	Condensed Matter Physics	Ph.D.

### **Laboratories and Other Facilities and Equipment**

We are currently in the process of equipping our material science and engineering lab in the first floor of Alumni Hall. We have already purchased Closed Cycle Cryostat and related instrumentation for receptivity measurements. We do also have resonant

ultrasound spectrometer for elastic constants measurements at room temperature. We have hood, oven, and press for material synthesis.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Arammash	Ph.D.	Condensed Matter Physics	Synthesis and Characterization of New Novel Material that Exhibit Both Magnetism and Superconductivity Properties and the Study of Elastic Properties of Solid Materials
Dr. Yin	Ph.D.	Condensed Matter Physics	Synthesis and Characterization of High Temperature Superconductors and the Study of Electric Field Induced Gravity

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** NIH  
**Funding Level:** \$4,300,000.00      **Year:** 9/02-9/07  
**Project Director:** Dr. G. McCoy  
**Title of Project:** Research Infrastructure at Benedict College

**Agency:** NASA  
**Funding Level:** \$298,000.00      **Year:** 1997-2000  
**Project Director:** Dr. Larry L. Lowe, PI  
**Title of Project:** Isolation and Characterization of Micro Gravity Responsive cDNA Genes

**Agency:** South Carolina Research Authority/NSF  
**Funding Level:** \$93,146.00      **Year:** 2002-2003  
**Project Director:** Dr. Larry L. Lowe, PI  
**Title of Project:** Aging Skeletal Muscle's Decreased Regenerative Capacity: Inflammation's Critical

**Agency:** South Carolina Research Authority/NSF/EPSCoR/BRIN  
**Funding Level:** \$75,000.00      **Year:** 2002-2003  
**Project Director:** Rush Oliver, Co-PI  
**Title of Project:** Physiological Control of Muscle Histolysis

**Agency:** University of South Carolina-UMEB  
**Funding Level:** \$68,000      **Year:** 2001-2003  
**Project Director:** Rush Oliver, Coordinator  
**Title of Project:** Benedict College USC-UMEB Program

**Agency:** South Carolina Independent Colleges and Universities  
**Funding Level:** \$5,000.00 **Year:** 2000-2001  
**Project Director:** Rush Oliver, PI  
**Title of Project:** a) Control of Steroid Genesis in the Porcine Corpus Luteum  
b) Effects of the Proteasome Inhibitor MG132 on Mitotic Spindle Formation MCF-7 Breast Cancer Cells

**Agency:** NIH/NIGMS Supplemental  
**Funding Level:** \$202,021.00 **Year:** 1999-2001  
**Project Director:** Dr. Larry L. Lowe, PI  
**Title of Project:** A Collaborative Research Learning Environment

**Agency:** SC Space Grant  
**Funding Level:** \$11,569.00 **Year:** 2001-2002  
**Project Director:** Dr. Larry L. Lowe, PD  
**Title of Project:** Undergraduate Research Assistance Ship Award

**Agency:** NIH/NICHD  
**Funding Level:** \$85,000.00 **Year:** 2001-2004  
**Project Director:** Samir Raychoudhury, PI  
**Title of Project:** Extramural Associates Research Development Award

**Agency:** NIH/NIGMS  
**Funding Level:** \$504,616 **Year:** 1998-2003  
**Project Director:** Samir Raychoudhury  
**Title of Project:** Toxicological Effects of Polychlorinated Aromatic Hydrocarbons on Spermatogenesis

**Agency:** NIH/NIEHS  
**Funding Level:** \$100,000.00 **Year:** 1999-2003  
**Project Director:** Samir Raychoudhury  
**Title of Project:** Male Reproductive Toxicity and Estrogenicity of PAHs

**Agency:** NASA  
**Funding Level:** \$298,000.00 **Year:** 1997-2000  
**Project Director:** Dr. Larry L. Lowe  
**Title of Project:** Isolation and Characterization of Micro Gravity Responsive cDNA Genes

**Agency:** US Department of Commerce  
**Funding Level:** \$1,138,426.00 **Year:** 1999-2002  
**Project Director:** Dr. Larry L. Lowe, PD  
**Title of Project:** Minority Access to Higher Education

**Agency:** NSF Area Award  
**Funding Level:** \$46,993.00 **Year:**  
**Project Director:** Samir Raychoudhury, PD

**Title of Project:** Academic Research Enhancement Award  
**Agency:** NIH/MBRS/SCORE  
**Funding Level:** \$841,828  
**Project Director:** Samir Raychoudhury, PD

**Agency:** NIH/EARDA Grant  
**Funding Level:** \$91,800.00                      **Year:**  
**Project Director:** Samir Raychoudhury, PD  
**Title of Project:** Extramural Associate Research Development Award

**Agency:** Association of Environmental Health Academic Programs  
**Funding Level:** \$11,000.00                      **Year:** 2002-2003  
**Project Directory:** Dr. May Linda Samuel, PD  
**Title of Project:** Benedict College Environmental Internship and Project Program

**Agency:** National Sierra Club  
**Funding Level:** \$5,000.00                      **Year:** 2002-2003  
**Project Director:** Dr. May Linda Samuel, PD  
**Title of Project:** Benedict College Environmental Justice Project

**Agency:** EPA  
**Funding Level:** \$30,000.00                      **Year:** 2002-2003  
**Project Director:** Dr. May Linda Samuel, PD and Mr. Milton Morris, Co-PD  
**Title of Project:** Benedict College Statewide Environmental Justice Project

**Agency:** NSF  
**Funding Level:** \$300,000.00                      **Year:** 2002-2005  
**Project Director:** Stacey Franklin Jones  
**Title of Project:** Production of African American PhDs in Mathematical Sciences

**Agency:** DOD  
**Funding Level:** \$175,000.00                      **Year:** 2002  
**Project Director:** Dr. Mbamalu/Dr. Arammash  
**Title of Project:** Instrumentation for Research and Enhancement of Undergraduate Education

**BLUEFIELD STATE COLLEGE**  
**Bluefield, WV 24701**

<b>Contact: Dr. Felicia Blanks</b>	<b>Telephone: (304) 327-4211</b>
<b>Executive Director Institutional</b>	<b>Fax: (304) 327-4546</b>
<b>Development &amp;</b>	
<b>Advancement/Director, Title III</b>	

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Health Sciences	Nursing	Associate
	Radiological Technology	Bachelors

**Laboratories and Other Facilities and Equipment**

Single building of three floors. Thirty (30) PC's in two labs. Large, single building shared with Health Sciences and Computer Center. Main frame and twenty (20) PC's. Campus has Ethernet LAN cable access for area computer data and instruction. Several specialized laboratories with equipment to support computer-aided manufacturing (CAM), electronics, programmable logic controllers (PLC), civil engineering, architecture, computer science. Campus-wide computer network connected to the West Virginia Network for Educational Telecomputing (WVNET) and SURANET including six well-equipped computer laboratories. There are over 225 computers on campus.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Finance	Bachelors
	Management	
	Marketing	
	Accounting	

**Laboratories and Other Facilities and Equipment**

Thirty PC's and forty three typewriters in two labs.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

Steven Bourne	Ph.D.	Business	
---------------	-------	----------	--

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
-------------------------	-------------------------	----------------------------

Engineering Technology	Mining Computer Technology Architectural Electrical Mechanical	Bachelors
------------------------	--	-----------

**Laboratories and Other Facilities and Equipment**

Single building of three floors. Thirty (30) PC's and forty three (43) typewriters in two labs. Large, single building shared with Health Sciences and Computer Center. Main frame and twenty (20) PC's. Campus has Ethernet LAN cable access for area computer data and instruction. Several specialized laboratories with equipment to support computer-aided manufacturing (CAM), electronics, programmable logic controllers (PLC), civil engineering, architecture, computer science. Campus-wide computer network connected to the West Virginia Network for Educational Telecommuting (WVNET) and SURANET including six (6) well-equipped computer laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

Frank Hart	M.S.	Engineering	
------------	------	-------------	--

**BOWIE STATE UNIVERSITY**  
**Bowie, MD 20715**

**Contact: Ms. Joyce E. Taylor**  
**Director of Federal Research and**  
**Development**

**Telephone: (301) 860-4318**  
**Fax: (301) 860-4320**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science	Computer Science Computer Technology	Bachelors, Masters Certificate Bachelors

**Laboratories and Other Facilities and Equipment**

PC Laboratories (2), Unix Open Laboratory, Multimedia & Visualization Laboratory, Advanced Research Laboratory, Center for Research in Distributed Computing

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Manohar Mareboyana	Ph.D.	Computer Science	Image Processing, Image Compression, Data Visualization
Sadanand Srivastava	Ph.D.	Mathematics	Artificial Intelligence
Nagi T. Wakim	Ph.D.	Computer Science	Information Systems Tech & Processes

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Natural Sciences	Biology	Bachelors
	Science Education	Bachelors

**Laboratories and Other Facilities and Equipment**

Greenhouse, tissue culture facility, crystallization room, general laboratory for biochemical techniques, molecular biology and protein purification.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Bradford Braden	Ph.D.	Biology	Protein Crystallography
William Lawrence	Ph.D.	Biology	Remote Sensing

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Behavioral Sciences and Human Services	Criminal Justice Human Resource Development Sociology	Bachelors Masters B.A., B.S.

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Annie Ruth Leslie	Ph.D.	Sociology	Minority Women's Health HIV-AIDS

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Counseling Psychology	Human Relations	M.A.

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business Administration	Accounting Business Information Systems Banking and Financing Economics Management Marketing Management Information Systems	B.S., M.B.A., M.S.

### **Laboratories and Other Facilities and Equipment**

Computer laboratories.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Mathias Mbah	Ph.D.	Management Information Systems	Economics, MIS
Dr. Shelton Rhodes		Management	Procurement

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics	Pure Mathematics	B.S.
	Applied & Computational Mathematics	M.A.
	Mathematics	
	Mathematics Education	

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Communications	Print Journalism	B.A., B.S.
	Public Relations	
	Broadcast Journalism	
	Media Management	
	Telecommunications	

### **Laboratories and Other Facilities and Equipment**

Telecommunications (Satellite) Operations provide and facilitate the use of telecommunications technologies at the University. Cable Television Broadcast Operations (BSU-TSU) maintains the University's cable television operations by broadcasting educational, informational, and cultural programs.

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Nursing	Adult Health	B.S., M.S.
	Community Public Health	
	Nursing	
	Primary Care Family Nurse Practitioner	

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** NASA  
**Funding Level:** \$100,000                      **Year:** 2002-2003  
**Project Director:** Dr. Bradford C. Braden  
**Title of Project:** Recognition of Fullerenes and Carbon Nanotubes

**Agency:** HHS via Morehouse College  
**Funding Level:** \$152,778                      **Year:** 2002-2003  
**Project Director:** Dr. Sadanand Srivastava  
**Title of Project:** The New Minority Males Consortium for the Study of Male Health

**Agency:** NASA  
**Funding Level:** \$271,300                      **Year:** 2002-2003  
**Project Director:** Dr. Joan Langdon  
**Title of Project:** Summer Institute in Engineering and Computer Applications

**CALIFORNIA STATE POLYTECHNIC UNIVERSITY**  
**Pomona, CA 91768**

**Contact: Elhami T. Ibrahim**                      **Telephone: (909) 869-3227**  
**Associate Vice President**                      **Fax: (909) 869-2993**  
**Research & Graduate Studies**              **Email: etibrahim@csupomona.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Animal & Veterinary Sciences		Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Several labs with emphasis on the Equine Research Laboratory and the W.K. Kellogg Arabian Horse Center. Also specialized labs for meat, wool and animal reproduction.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Wei W. Bidlack	Ph.D.	Animal & Vet Science	Drug Metabolism/Interaction
Edward A. Cogger	Ph.D.	Poultry Science Statistics	Equine Physiology & Locomotion
David L. Fernandez	Ph.D.	Reproductive Physiology	Neural & Endocrine Mechanisms
Edward S. Fonda	Ph.D.	Animal & Vet Science	Evaluation of Semen from Rams/Stallions
Steven J. Wickler	Ph.D./DVM	Physiology	Physiology with Emphasis on Horses Locomotion; Exercise, Sports Medicine

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Apparel Merchandising & Management		Bachelors

**Laboratories and Other Facilities and Equipment**

Apparel Technology & Research Center: Fully operational apparel factory with a full-package contracting capability. Self-supporting education and outreach resources for the apparel and sewn-products manufacturing industry.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jean A. Gipe	M.S.	Apparel Tech & Research Center	Apparel Manufacturing & Supply Chain Management
Elizabeth K. Tracy	M.A.	Apparel Merchandising & Management	Store Design; Consumers; Retailing

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Architecture		Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Computer-aided laboratories including geographic information Systems, advanced graphics, statistical modeling, and applications research

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Brooks Cayin III	Ph.D.	Architecture	Green Design, Campus-wide, Sustainability and Planning
Hoful Wu	Ph.D.	Architecture	Sustainable and Green Building Design; Solar Architecture; Energy Building Systems

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biological Sciences	Biology, Biotechnology, Botany, Environmental Biology, Microbiology, and Zoology	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Noteworthy facilities include Biodiversity Collections, Biometrics Lab, BioTrek, a Membrane Transport Laboratory, a Microscopy Center, and Molecular Biology Core Facility. BioTrek has a greenhouse, garden, and labs, which bring to students and the public both hands-on and electronic educational experiences of the tropical rainforest, aquatic environments of the tropics and California, and California indigenous plants and people. The Microscopy Center consists of a Fluorescence Microscopy Lab, a Digital Imaging Center, an

Ultramicrotomy room, a W.M. Keck Foundation sponsored 3-D Microscopy/Telemicroscopy Lab, an EM Prep room, a Transmission Electron Microscope room, a Scanning Electron Microscope room, and a fully operational Microscopy Facility Darkroom.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jill Adler-Moore	Ph.D.	Biology	Molecular Biology
Jonahtan N. Baskin	Ph.D.	Biology	Vertebrate Zoology/Biosystematics
Kristin R. Bozak	Ph.D.	Biology	Molecular Biology/Plant Physiology
Nancy E. Buckley	Ph.D.	Biology	Cell, Molecular and Developmental Biology, Localization of Receptor Gene Expression in Cannabinoid Mammals
John K. Chan	Ph.D.	Biology	Basic Immunology, Clinical Immunology, Elucidation of the Immune Response to Hoses of Exposure; Phagocytic Cells and Nicotine Killer Cells in this Infection System
Wendy Dixon	Ph.D. M.D.	Biology	Location, Movement & Interaction of DNA Replication Initiators During Cycle of Cell
Sepehr Eskandari	Ph.D.	Biology	Physiology & Neuroscience; Cellular and Molecular Mechanisms of Neurotransmitter Transport in the Nervous System
Donald F. Hoyt	Ph.D.	Biology	Physiological Ecology of Terrestrial Vertebrates; Energetics; Biomechanics, and Muscle Function During Terrestrial Locomotion
Glenn H. Kageyama	Ph.D.	Biology	Neurobiology; Developmental Plasticity of Central Nervous System Synapses
Bijay K. Pal	Ph.D.	Biology	Molecular Biology of Recombinant DNA; Virology; Molecular Biology, Retrovirus-Induced Cancer of Gene Expression Regulation

Pamela J. Sperry	Ph.D.	Biology	Molecular, Cellular & Developmental Biology; Signal Transduction Pathways Controlling Growth and Differentiation of Skin Epidermal Cells
Lenard R. Troncale	Ph.D.	Biology	Cellular & Molecular Biology System Science; Biosystems Allometry; Biohierarchies; Molecular Evolution; Proteins of the Chromosome Scaffold and Nuclear Matrix of Eo-Eukaryotes

**PROGRAM 5**

Chemical & Materials Engineering

**SPECIALTY**

**DEGREE LEVEL**

Bachelors  
Masters

**Laboratories and Other Facilities and Equipment**

Extensive laboratory and computerized test facilities for process and materials investigations as well as complete pilot-scale equipment for extended development and confirmatory studies.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
J. Winthrop Aldrich	Ph.D.	Materials Science & Engineering	Structure Property; Relationships Failure Analysis, Design and Selection, Composites Design and Fabrication, Solidification, Polymer Processing
Christopher L. Caenepeel	Ph.D.	Chemical Engineering	Fluidized Catalytic Cracking Process Simulation, Non-Linear Optimization and Natural Gas Fueled Burners Evaluation
Winnie Dong	Ph.D.	Materials Science & Engineering	Synthesis of New and Unique Materials with the Sol-Gel Method
Vilupanur A. Ravi	Ph.D.	Metallurgical Engineering	High Temperature Coatings, Refractory

Metals, Materials  
 Degradation, Ceramics,  
 Ceramic and Metal Matrix  
 Composites, Polymers,  
 Failure Analysis

**PROGRAM 6**

**SPECIALTY**

**DEGREE LEVEL**

Chemistry

Bachelors  
 Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Barbara A. Burke	Ph.D.	Inorganic Chemistry	Chemistry Education
Dennis R. Livesay	Ph.D.	BioChem	Protein Design
Patrick W. Mobley	Ph.D.	BioChem	Mechanisms of Viral Fusion
Edward D. Walton	Ph.D.	Chemistry Education	Chemistry Education

**PROGRAM 7**

**SPECIALTY**

**DEGREE LEVEL**

Civil Engineering

General, Environmental and  
 Surveying Options

Bachelors  
 Masters

**Laboratories and Other Facilities and Equipment**

Labs consisting of: Surveying; Geospatial Information Systems; Concrete; Structural Mechanics; Water Testing; Geotechnical Engineering' Fluids & Hydraulics; Transportation Engineering; Infrastructure.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Francelina A. Neto	Ph.D.	Geospatial	GIS
Howard Turner	Ph.D.	Geospatial	GIS
Y. Lisa Wang	Ph.D.	Structural Engineering	Linear and NonLinear Structural Analysis, Design of Buildings and Bridges for Earthquake and Wind Loading
Julie H. Wei	Ph.D.	Environmental	Environmental & Water Resources

Donald Coduto	Ph.D.	Geotechnical Engineering	Geotechnical Engineering
---------------	-------	--------------------------	--------------------------

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Information Systems		Bachelors

**Laboratories and Other Facilities and Equipment**

A computer forensics laboratory. An instructional web design classroom laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Frederick Gallegos	M.B.A.	Computer Information Systems	Information Systems Assurance, Auditing & Security
Daniel P. Manson	Ph.D.	Computer Information Systems	Information Systems Forensics, Auditing, Assurance & Security

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science		Bachelors Masters

**Laboratories and Other Facilities and Equipment**

A Sun/Solaris lab which supports programming on the Unix platform and a PC/Windows lab which supports programming on the Windows platform.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Hairong Kuang	Ph.D.	Distributed Computing	Mobile Agents, Paradigm-Oriented Distributed Computing, Parallel Algorithms, and Load Balancing
Amar Raheja	Ph.D.	Digital Image Processing	Medical Imaging, Biomedical Informatics

<b><u>PROGRAM 10</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Electrical & Computer Engineering		Bachelors Masters

## **Laboratories and Other Facilities and Equipment**

Laboratories consisting of: Illumination, biomedical; large electrical machines, energy conversion; power systems; basic circuits; robotics; senior project-team project; computer; electronics; digital; digital design; computer networks; communications; RF and Microwave engineering; student project; circuit design & analysis.

## **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Yi Cheng-Real	Ph.D.	ScD. Instrumentation	Hardware/Software Co-Design; Time Embedded Systems
M. Kathleen Hayden	Ph.D.	Management of Information Systems	Real-Time Embedded Systems, Visual Programming Languages, Robotics
Rajan Chandra	Ph.D.	Engineering Science	Hardware/Software Co-Design Real-Time Embedded Systems
James Kang	Ph.D.	Electrical Engineering	Digital Signal Processing, Digital Image Processing, Communication Systems, Wavelet Theory & Applications
H.K. Hwang	Ph.D.	Electrical Engineering	Communication Systems, Radar Systems, Digital Signal Processing
Tim Lin	Ph.D.	Mathematics	System & Software Engineering Algorithm Analysis, Computer Network Security
Meng-Lai Yin	Ph.D.	Information Computer	Software Reliability, Performability Analysis, Parallel Processing Systems
Halima El-Haga	Ph.D.	Electrical Engineering Systems	Computer Architecture, Parallel Processing Systems, Multithreading and Cache Coherence Models
Zekeriya Aliyazicioglu	Ph.D.	Electrical Engineering	Data Communications and Information Technology, Signal Image Processing,

Saeed Monemi	Ph.D.	Electrical & Computer Engineering	Artificial Intelligence Algorithm Development, Database Design, GIS, Real-Time Embedded Systems
Richard Cockrum	M.E.	Electrical Engineering	Bio-Medical, Lighting
Narayan Mysoor	Ph.D.	Solid State Electronics	Microwave
Phyllis Nelson	Ph.D.	Electrical Engineering	Optics, Lasers
Salomon Oldak	Ph.D.	Applied Mathematics	Control Systems, Image Processing
Frank Smith	M.S.	Electrical Engineering	Lighting, Instrumentation
Brita Olson	Ph.D.	Electrical Engineering	Mixed Mode Design, Analog Design, Analog VLSI Design
Thomas Ketseoglou	Ph.D.	Electrical Engineering	Wireless Communications, Communication Systems

**PROGRAM 11**

Geography & Anthropology

**SPECIALTY**

**DEGREE LEVEL**

Bachelor

**Laboratories and Other Facilities and Equipment**

Anthropology teaching laboratory and geography computer laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Sara A. Garver	Ph.D.	Geography	Ocean-Atmosphere Interactions, Coastal Resource Management, GIS, Remote Sensing
Richard S. Hyslop	Ph.D.	Geography	California, Hazards and Emergency Management; Environmental Law, U.S. & Canada; Urban and Rural Geography
Lin Wu	Ph.D.	Geography	GIS/Cartography/Remote Sensing, Climatology; Urban Climate; Environmental Modeling; East China

**PROGRAM 12**

Geological Sciences

**SPECIALTY**

Geology & Integrated  
Earth Studies

**DEGREE LEVEL**

Bachelors

### **Laboratories and Other Facilities and Equipment**

None indicated.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jonathan A. Nourse	Ph.D.		Proterozoic Basement Geology of NW Sonora-SW Arizona Border Region. Geological Mapping & Reconstructions in the San Gabriel Mountains & Northeastern LA Basin

<b><u>PROGRAM 13</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Horticulture, Plant & Soil Science	Agronomy, Horticulture, Irrigation Plant, and Soil Sciences	Bachelors Masters

### **Laboratories and Other Facilities and Equipment**

Seed Physiology lab; Agriscapes: Center for Environmentally Sustainable Agriculture; Center for Turf, Irrigation, Landscaping and Technology (CTILT); 450 Acre Kellogg Ranch; 120 acre Spadra Ranch; 53 acre Pine Tree Ranch; 1000 acre Chino Ranch; ICP; DNA Sequencer; Capillary Electrophoresis; Evolutionary Quantitative PCR; Gene Expression Array System.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Daniel G. Hostetler	Ph.D.	Horticulture, Plant & Soil Sciences	Farmland Conservation and Preservation; Specialty Crop Agriculture; Forage Crops, Vegetable Crops
Sowmya Mitra	Ph.D.	Horticulture, Plant and Soil Sciences	Turfgrass Physiology, Soil and Water Quality; Fate of Pesticides; Biological Control of Weeds and Turfgrass Diseases, Irrigation Design, Automated Fermentation; Delivery of Microorganisms Through Irrigation Systems

David Still	Ph.D.	Horticulture, Plant & Soil Science	Plant Improvement; Plant and Seed Physiology and Genetics
-------------	-------	------------------------------------	---

<b><u>PROGRAM 14</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Human Nutrition & Food Science	Dietetics, Food Science	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Natural Color Resource Center; Food and Agricultural Products Educational and Research Center

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Bonny Burns-Whitmore	Ph.D.		
Marie A. Caudill	Ph.D.		
Douglas Lewis	Ph.D.		

<b><u>PROGRAM 15</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Industrial & Manufacturing Engineering		Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Ergonomics; Work Measurements; Industrial Simulation; Material Removal; Material Forming; Material Joining; Metal Casting; CAD/CAM/ Computer Integrated Manufacturing; Metrology

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Kamran Abedini	Ph.D.	Industrial Engineering	Ergonomics
Biman Ghosh	Ph.D.	Industrial Engineering	Factory Simulation & Operations Research
Victor Okhuysen	Ph.D.	Manufacturing Engineering	Metal Casting
Sima Paisay	Ph.D.	Industrial Engineering	Operations Research; Factory Simulation
Phillip R. Rosenkrantz	Ed.D.	Industrial Engineering	Quality Control
Abdul B. Sadat	Ph.D.	Mechanical Engineering	Metal & Composite Machining

**PROGRAM 16**Kinesiology & Health Promotion  
Department**SPECIALTY****DEGREE LEVEL**Bachelors  
Masters**Laboratories and Other Facilities and Equipment**Three labs: Human Performance Lab; Biomechanics; Psychophysiology Laboratory;  
Motor Development Clinic**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
William A. Braun	Ph.D.	Kinesiology	Exercise Physiology; Exercise-Induced Muscle Damage; Biochemical Analysis of Bone Turnover Markers; Influence of Exercise on Indices of Immune System Function; Metabolic Responses to Exercise
Michael T. C. Liang	Ph.D.	Kinesiology	Exercise Physiology; Prevention of Osteoporosis; Panax Notoginseng Supplements; Bone Strength
Thomas Spalding	Ph.D.	Health Promotion	Health Promotion: Stress and Its Relationship to Health and Performance

**PROGRAM 17**

Mechanical Engineering

**SPECIALTY****DEGREE LEVEL**Bachelors  
Masters**Laboratories and Other Facilities and Equipment**Project Development Laboratory – Provides students a facility to develop, design,  
fabricate and test academic related projects. Basic machine shop which includes engine  
lathes, grinders, welding, vertical & horizontal milling machines.**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jawaharlal	Ph.D.		Mechanism Design;

Mariappan  
Michael T. Shelton Ph.D.

Optimization; CAD  
Structural Analysis;  
Mechanical Vibration;  
Solar Vehicles

**PROGRAM 18**  
Physics

**SPECIALTY**

**DEGREE LEVEL**  
Bachelors

### **Laboratories and Other Facilities and Equipment**

Solid State; Nuclear Physics; and Optics labs are offered, along with general, fundamental and advanced physics labs.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Robert T. Bush	Ph.D.		Cold Fusion
Kurt Vandervoort	Ph.D.		Experimental Condensed Matter

### **Relevant Special Centers within the University**

#### **Center for GIS Research**

### **Laboratories and Other Facilities and Equipment**

6 Dell Servers, (40) 2.4 GhZ Pentium 4 CPU's, 30 PC's dedicated for instructional lab and 10 PC's dedicated for researchlab running ArcGIS 8.3, Erdas IMAGINE 8.6, GeoMedia Professional 5.1, AutoCAD, Pathfinder Office and Microstation.

Miriam A. Cope, MSc., Director - Remote sensing, land cover techniques.

#### **Equine Research & Veterinary Clinic**

The Equine Research Center (ERC) offers both undergraduate and graduate students an opportunity to study horse health and function, reproductive physiology, exercise physiology, energetics and kinematics of locomotion, animal behavior, parasitology and immunology.

### **Laboratories and Other Facilities and Equipment**

The Center features a modern high-speed treadmill. The computer lab features sophisticated computer programs (e.g. Peak motion analysis system) that assist in the analysis of scientific data.

Steven J. Wickler , Ph.D., DVM - Equine Science/Animal & Veterinary Sciences

**Interests in:** Energetics; locomotion; high altitude physiology; performance testing in horses; exercise physiology; sports medicine (horses).

Donald F. Hoyt, Ph.D. - Biological Sciences

**Interests in:** Physiological ecology of Terrestrial Vertebrates; Energetics, biomechanics, and muscle function during terrestrial locomotion; Equine locomotion; Energetics and water balance in avian and reptilian embryos.

### **John T. Lyle Center for Regenerative Studies**

Ronald D. Quinn, Ph.D., Director

**Interests in:** Dynamics of ecological processes after fire.

### **McNair Scholars Program**

Joan E. Hill, Program Advisor

Frank J. Torres, Director

### **Ocean Studies Institute**

Samuel Kelly

### **Institute for Cellular & Molecular Biology**

Jill Adler-Moore, Director

### **Institute for Advanced Systems Studies**

Leonard Troncale, Director

### **LandLab – A Center for Education & Research in the Sustainable Use of Resources**

Edwin A. Barnes III, Director

### **Recent DoD/Other Contract/Grant/Procurement Experience**

<b>Agency:</b>	Defense Logistics Agency	
<b>Funding Level:</b>	\$3,737,000	<b>Years:</b> 1994-2001
<b>Project Director:</b>	Jean Gipe	
<b>KLA Project Director:</b>	Julie Tsao	
<b>Title of Project:</b>	ARN Demo Site	

<b>Agency:</b>	Department of Defense	
<b>Funding Level:</b>	\$76,421	<b>Years:</b> 2001-2002
<b>Project Director:</b>	Howard Turner	
<b>Title of Project:</b>	Visualization and Animation in Civil Engineering	

**CAROLINA REGIONAL COLLEGE, U.P.R.  
Carolina, PR 00984-4800**

*Data from 1996*

**Contact: Maria Del Pilar Toral**  
Executive Assistant to the  
Director-Dean

**Telephone: (809) 768-1120**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE</u>
Natural Sciences	Cell Biology Research	Associate

**Laboratories and Other Facilities and Equipment**

Various research equipment has been purchased, some of which are phase contrast microscope with photographic equipment, an incubator for cell culture, a laminar flow bench and UV/VIS spectrophotometer.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Luis D. Torres	Ph.D.	Cell Biology	Biochemical and Cellular Aspects of the Trans-differentiation of Ocular Tissues of the Adult Salamander <i>Notophthalmus Viridescens</i>

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Hotel Administration	Food and Beverages Service And Preparations	Associate Bachelors

**Laboratories and Other Facilities and Equipment**

A 12,000 square foot laboratory facility complements theory teaching that includes: kitchen with 8 cooking stations, volume food production kitchen reception and reservation area with H.I.S. computer system, restaurant facilities and cocktail lounge area.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Carlos E. Reoyo	M.S.	Engineering	Experiencing in Engineering & Computer Science

**Recent DoD/Other Contract/Grant/Procurement**

None Indicated.

**COLLEGE OF AERONAUTICS  
Flushing, New York 11369**

**Contact: Kalliopi Koutsoutis  
Director  
Office of Development**

**Telephone: (718) 429-6600 ext, 142  
Fax: (718) 429-0671  
Email: [kkoutsoutis@aero.edu](mailto:kkoutsoutis@aero.edu)**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
CATIA-Engineering Development		Bachelors

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
George Kizner	Ph.D.	Engineering Mechanics	Aircraft Structure Design
Donald O'Keefe	M.S.	Facilities Management	Computer Aided Design 3D Graphics

COLLEGE OF SANTE FE  
Santa Fe, NM 87505

Contact: William O. Sayre Telephone: (505) 473-6305  
Director, Institutional Research Fax: (505) 473-6399

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Studio Arts		Bachelors

**Laboratories and Other Facilities and Equipment**

Sculpture Lab, Printmaking Lab, Drawing and Painting Lab.

**Reseachers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Gerry Snyder, Chair			

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Film		Bachelor

**Laboratories and Other Facilities and Equipment**

AVID film editing, Professional sound state.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Jonathan Wacks, Chair			

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Performing Arts	Acting, Technical	Bachelors

**Laboratories and Other Facilities and Equipment**

Greer Garson Theatre Center – 600 seat performance center.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
John Weckesser, Chair			

**PROGRAM 4**  
Creative Writing

**SPECIALTY**

**DEGREE LEVEL**  
Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

Greg Glazner, Chair

**PROGRAM 5**  
Social Sciences

**SPECIALTY**  
Psychology

**DEGREE LEVEL**  
Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

Robert Jessen, Chair

**PROGRAM 6**  
Conservation Science

**SPECIALTY**

**DEGREE LEVEL**  
Bachelors

**Laboratories and Other Facilities and Equipment**

Cell Biology, Digital Imaging

**Researchers: Academic Background & Research Specialty(ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

David W. Johnson, Chair

**PROGRAM 7**  
Computer Science

**SPECIALTY**

**DEGREE LEVEL**  
Bachelors

**Laboratories and Other Facilities and Equipment**

150 networked computers for student use.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

Pat Donahoe, Director

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	Elementary	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

Kate Friesner, Chair

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Management	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
--------------------	----------------------	--------------------------	--------------------------------------

Ali Arshad, Chair

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** U.S. Department of Education  
**Funding Level:** \$317,985      **Year:** 2000-2004  
**Project Director:** Tom Baumgartel  
**Title of Project:** Student Support Services in the TRIO Program

**Agency:** National Science Foundation  
**Funding Level:** \$2,500,000      **Year:** 2003-2007  
**Project Director:** Thomas M. Antonio  
**Title of Project:** Sugar from the Sun, Informal Science Education Exhibit at Garfield Park Conservatory in Chicago

**COLORADO STATE UNIVERSITY - PUEBLO**  
**Pueblo, CO 81001**

**Contact: Dr. Melvin Druelinger      Telephone: (719) 549-2325**  
**Director, Office of Research      Fax:      (719) 549-2071**  
**and Sponsored Programs      Email:      mel.druelinger@colostate-pueblo.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Forensic Science, Organic, Biochemistry, Analytical (Western Forensic and Law Enforcement Training Center)	Bachelors Masters of Applied Natural Science

**Laboratories and Other Facilities and Equipment**

Newly renovated Chemistry building with several research and teaching labs and state-of-the-art high tech classrooms. Excellent instrumentation and technology for research and teaching. Chemical Instrumentation includes: AA, AFM, GC-MS, GLC, GC-FTIR, FT-NMR, FT-IR, and HPLC.

**Researchers: Academic Background and Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Sandra J. Bonetti	Ph.D.	Chemistry	Structure and Function of Fungal Cell Walls, Glycopeptides, and Enzymes Produced by the Allergy-Causing Penicillium Mold
David Collins	Ph.D.	Chemistry	Time-of-Flight Mass Spectrometry, Fast Liquid Separations, Interfacing of Liquid Separation to TOFMS via Electrospray Ionization, Gas-Phase Electrophoresis or Ion Mobility Spectrometry, Various Aspects of Forensic Science
Melvin L. Druelinger	Ph.D.	Chemistry	Synthesis of Potentially Bioactive Organic Materials of Medicinal Value, Organofluorine Compounds via Selective

David W. Lehmpuhl	Ph.D.	Chemistry	Fluorinations, Cycloaddition Reactions of Heterocycles, Reactive Intermediates, Polymers, Photochemistry, Energetic Materials, and Reaction Mechanisms Scanning Probe Microscopy Including Atomic Force Microscopy and Scanning Tunneling Microscopy, Environmental and Atmospheric Chemistry, Particularly in the Determination of Trace Species in Air
Kristina G. Proctor	Ph.D.	Chemistry	The Synthesis of Chemically Derived Metal-Oxide Substrates Utilized in Chromatography, Catalysis and Biomedical Applications, with Subsequent Surface Characterization Using Advanced Spectroscopic Techniques
Paul E. Vorndam	Ph.D.	Chemistry	Organic Synthetic Methods Directed Toward the Preparation of Biologically Active Molecules, and Educational Technology Applied to the Use of Computer-Based-Training (CBT) in the Classroom and Laboratory
Linda Wilkes	Ph.D.	Chemistry	Biological Interactions of Inorganic Metals – e.g. The Investigation of the Metal Beryllium and its Interaction with Various Enzymes

**PROGRAM 2**

Biology

**SPECIALTY**

Molecular, Environmental and Field Biology

**DEGREE LEVEL**

Bachelors  
Masters of Applied  
Natural Science

**Laboratories and Other Facilities and Equipment**

Newly renovated Life Sciences building with several research and teaching labs and state-of-the art high tech classrooms. Imaging capabilities: SEM, fluorescence microscopy. A variety of equipment suitable for molecular and field biology research including gel electrophoresis, PCR unit, ultra centrifuge, AA, HPLC, environmental

chambers, flow cytometer, and greenhouse, water resources research lab, and molecular genetics research labs. Field sites, agricultural plots and animal rearing and care facility.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Daniel Caprioglio	Ph.D.	Biology	Use of Molecular Biology, Biochemistry, and Genetics to Study the Role of Aminopeptidase Genes in the Cell Biology of Yeast
Helen Caprioglio	Ph.D.	Biology	Cell Biology of Cell Surface Interactions with the Extracellular Environment
Moussa M. Diawara	Ph.D.	Biology	Both Basic and Applied Research in Environmental Health Sciences, Plant-Animal Interactions; Biodiversity and Other Areas of Environmental Science
Scott J. Herrmann	Ph.D.	Biology	Systematics, Biogeography, Genetic Diversity, and Ecology of Plecoptera, Trichoptera, Chironomidae, Hirudinea and Porifera; Aquatic Toxicology, Chemical Limnology of Rivers and Alpine Lakes in Western United States, Ichthyology; and Paleolimnology
Lee Anne Martinez	Ph.D.	Biology	Insect Chemosenses, Predatory-Prey Interactions, and Aquatic Invertebrates
Janna McLean	Ph.D.	Biology	Genetic Analysis of Segregation Distortion in <i>Drosophila Melanogaster</i>
Jack A. Seilheimer	Ph.D.	Biology	Stream Ecology Including Primary Productivity and Pollution, Systematics and Ecology of Terrestrial Vertebrates, Systematics and Ecology of Freshwater Algae and Invertebrates, and Science and Experimental Education

**PROGRAM 3**

Mathematics/Physics

**SPECIALTY**Applied Mathematics,  
Computer Science,  
Math Education**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

Newly renovated mathematics/physics building with teaching and computer labs and research facilities; Southern Colorado Observatory

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Janet H. Barnett	Ph.D.	Mathematics	Set Theory and Logic
William Brown	Ph.D.	Engineering/Physics	Space Physics, Near Earth Objects Observations
Paul Chacon	Ph.D.	Mathematics	Probability, Stochastic Process and Statistics
James B. Derr	Ph.D.	Mathematics	Finite Group Theory, Ring Theory, and Linear Geometry
Roger W. Johnson	D.A.	Mathematics	Applied Statistics, Generalized Linear Models, Forecasting Data Analysis, and Experimental Design as well as Computational Biology and Genome Sequencing
James A. Louisell	Ph.D.	Mathematics	Real and Complex Analysis, Algebra, Differential Equations and Control Theory
Bruce Lundberg	Ph.D.	Mathematics	Numerical and Applied Analysis and Optimization, Scientific Computation, Celestial Mechanics
John M. McArthur	Ph.D.	Mathematics	Numerical Analysis and Computational Fluid Dynamics
Gilbert F. Orr	Ph.D.	Mathematics	Finite Ring Theorv.

Karla J. Oty	Ph.D.	Mathematics	Ordered Algebraic Systems, and Universal Algebra
Hortensia Soto- Johnson	Ph.D.	Mathematics	Analysis, C* Algebras and Groupoids
			Mathematics Education, Geometry, Number Theory, and Algebra

**PROGRAM 4**

Engineering: Engineerin  
Technology  
Computer Information Systems

**SPECIALTY**

Industrial and Systems  
Engineering , CIS

**DEGREE LEVEL**

Bachelors  
Masters in Industrial  
and Systems  
Engineering

**Laboratories and Other Facilities and Equipment**

Engineering and Engineering Technology (Mechanical, Civil) building with appropriate labs and classrooms.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Borton	Ph.D.	Computer Information Systems	Examining Factors which Impact the Implementation of Computer Systems in a Business Environment
Hector R. Carrasco	Ph.D.	Industrial Engineering	Project Management, Quality Improvement through Design of Experiments, Justification of New Technology, Manufacturing Systems, Taguchi Techniques, System Design and Energy Conservation
Frank Chen	Ph.D.	Mechanical Engineering	Computational Methods in Fluid Mechanics and Heat Transfer as well as CAD and Quality Control
Jude DePalma	Ph.D.	Electrical Engineering	Biomedical Signals and Analysis Techniques

Jane M. Fraser	Ph.D.	Industrial Engineering/Operations Research	Decision Analysis, Information and Communication Technology
Nebojsa I. Jaksic	Ph.D.	Industrial and Systems Engineering	Nanotechnology, Nanoengineering
Kathy Lassila	Ph.D.	Computer Information Systems	Information Technology Applications
Huseyin Sarper	Ph.D.	Manufacturing Systems Engineering	Robotics, Operations Research
Charles Suscheck	Ph.D.	Computer Science	Software Development Methodologies
Wolfgana Sauer	Ph.D.	Engineering	Space Applications, Manufacturing Processes, CAD/CAM, CIM

**PROGRAM 5**

**SPECIALTY**

**DEGREE LEVEL**

Psychology

Experimental/Clinical

Bachelors

**Laboratories and Other Facilities and Equipment**

Psychology building with appropriate labs, classrooms, seminar rooms, animal facilities and computer labs.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Paul J. Kulkosky	Ph.D.	Psychology	Physiological Psychology, Study of Animal Behavior, Experiments on Neuropeptides and Behaviors such as and Regarding Alcohol Consumption
Patricia A. Levy	Ph.D.	Psychology	Clinical/Counseling Psychology, Marriage and Family Therapy, Eating Disorders, and Client/Therapist Relationships

L. Dennis Madrid	Ph.D.	Psychology	Clinical/Counseling Psychology
Marc Pratarelli	Ph.D.	Psychology	CNS Detection of Deception and Concealed Information, Reading and Attention Deficit Disorders
Karen Yescavage	Ph.D.	Psychology	Social Cognition, Personality and the Study of Human Sexuality, Racism, and Sexism

**PROGRAM 6**

Exercise Science & Human Performance

**SPECIALTY**

Wellness, Athletic Training

**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

Physical education building with appropriate labs, classrooms, seminar rooms, and computer labs.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
George Dallam	Ph.D.	EXHPR	Movement Economy and the Application of Attitude as a Training Variable
Carol Foust	Ph.D.	EXHPR	Wellness, Health Education, Diabetes Prevention
Christine Sims	Ph.D.	EXHPR	Youth Development Through Physical Development, in Particular Opportunities for High-Risk Youth
Jeff Stuyt	Ph.D.	EXHPR	High Risk Recreation, Work-Time Decisions, and Computer Applications

**PROGRAM 7**

Business

**SPECIALTY**

Economics, Management Accounting, Finance, Marketing

**DEGREE LEVEL**

Bachelors  
Masters

## **Laboratories and Other Facilities and Equipment**

Hasan School of Business building with appropriate labs, classrooms, seminar rooms, and computer labs.

## **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ahmad Amadian	Ph.D.	Business	International Business, Management
Peter Billington	Ph.D.	Business	Operations Management
James Browne	Ph.D.	Business	Management – Human Resources
Jose Castillo	Ph.D.	Business	Management
Kevin Duncan	Ph.D.	Business	Economics
Richard Eisenbeis	Ph.D.	Business	Management
Rex Fuller	Ph.D.	Business	Economics
Jay Goodman	Ph.D.	Business	Economics
Betty Sue Hanks	Ph.D.	Business	Marketing, Management
Hailu Regassa	Ph.D.	Business	International Business, Finance
Abhay Shah	Ph.D.	Business	International Business, Marketing
Charles Zeis	Ph.D.	Business	International Business, Management

## **Recent DoD/Other Contract/Grants/Procurement Experience**

**Agency:** Department of Defense (AFOSR)  
**Funding Level:** \$200,000                      **Year:** 2001  
**Project Director:** Dr. William Brown (Engineering Technology/Physics)  
**Title of Project:** Telescope Instrumentation for Hispanic Students in the University of Southern Colorado and the Southern Colorado Community

**Agency:** National Institutes of Health  
**Funding Level:** \$292,845                      **Year:** 2003  
**Project Director:** Dr. Sandra Bonetti (Chemistry)  
**Title of Project:** MBRS-SCORE (Minority Biomedical Research Support Program – Support of Continuous research Excellence at the University of Southern Colorado (now Colorado State University –Pueblo)

**Agency:** National Institutes of Health - National Cancer Institute  
**Funding Level:** \$216,001                      **Year:** 2003  
**Project Director:** Dr. Carolyn Glaubenslee (Biology)  
**Title of Project:** Partnership to Increase Hispanic Cancer Research and Education (U. Colorado Cancer Center Collaboration)

**Agency:** National Institutes of Health - MORE Division  
**Funding Level:** \$320,335                      **Year:** 2003  
**Project Director:** Dr. Janna McLean (Biology)  
**Title of Project:** USC - Puente Project: Bridges to Biomedical Careers  
(2 Yr – to the Baccalaureate)

**Agency:** National Institutes of Justice (DOJ)  
**Funding Level:** \$248,375                      **Year:** 2003  
**Project Director:** Dr. Kristina Proctor, Jamie Crippen (Chemistry)  
**Title of Project:** Western Forensic Science & Law Enforcement Training  
Center

**Agency:** National Science Foundation  
**Funding Level:** \$275,000                      **Year:** 2002  
**Project Director:** Dr. Jane Fraser (Engineering)  
**Title of Project:** Computer Science, Engineering and Mathematics  
Scholarships (CSEMS)

**Agency:** National Science Foundation  
**Funding Level:** \$100,000                      **Year:** 2001  
**Project Director:** Dr. Abhijit Gosavi (Engineering)  
**Title of Project:** A Simulation Based Computational Approach Using  
Machine Learning to Study Stochastic Business Games

**CONCORDIA COLLEGE – SELMA**  
Selma, Alabama 36701

**Contact: Ruthie J. Orsborn, Dean      Telephone: (334) 874-5700 ext. 114**  
**Institutional Research and      Fax:                    (334) 874-5755**  
**Planning                                      Email:                [rorsborn@concordiaselma.edu](mailto:rorsborn@concordiaselma.edu)**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
History	General Curriculum	Associate
Mathematics		
Biology		
English		

**Laboratories and Other Facilities and Equipment**

Science laboratory; Chemistry Laboratory; Enrichment Tutorial Laboratory; Computer Laboratory

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Doyle Holbird	Ph.D.	Biology	Entomology
Shelia Okoye	M.A.	Mathematics	Probability Theory
Ruthie Orsborn	M.A.	English	Folklore, African American Literature and Poetry
Jose Owens	M.A.	History	Black History/Civil Rights, Southern Black History
Ella Robinson	Ph.D.	English	African American Literature and Poetry; 19th Century British Literature
Steve Shoals	M.A.	Mathematics	Matrices of Dynamic Systems

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Reading	Education	Bachelors
Mathematics		
English		

**Laboratories and Other Facilities and Equipment**

Teacher Resource Room

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Moyo Doreen	Ed.D.	Education	Early Childhood
Joyce Weiss	Ed.D.	Education	Reading

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Information Systems Economics	Business	Bachelors

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Chris A. Adalikwu	Ph.D.	Business	Economics Development
Major Madison III	J.D.	Business	Rural Development
Godwin Onyiaso	D.B.A.	Business	Marketing/Consumer Research

**Recent DoD Contract/Grant/Procurement Experience**

**Agency:** Title IV  
**Funding Level** \$ **Year:**  
**Project Director:** Phyllis Richardson  
**Title of Project:** Upward Bound

**Agency:** Kellogg Foundation  
**Funding Level** \$ **Year:**  
**Project Director:** Phyllis Richardson  
**Title of Project:** Parent/Child Enrichment

**COPPIN STATE COLLEGE**  
**Baltimore, MD 21215**

**Contact: Tendai Johnson**

**Sponsored Programs & Title III  
Coordinator**

**Telephone: (410) 951-3492**

**Fax: (410) 951-3495**

**Email: tjohnson@coppin.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

**PROGRAM 1**

Biomedical Sciences

**SPECIALTY**

**DEGREE LEVEL**

**Laboratories and Other Facilities and Equipment**

Two laboratories for tissue culture and virology; equipment: biological safety hood, electrophoresis apparatus, high speed centrifuge, inverted phase microscope, electron microscope, atomic absorption spectrophotometer, NMR, IR, U-V spectrometer, HPTL, HPLC, gas chromatographic machine.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mary Owens	Ph.D.	Virology	Characterization of IBV with Nonclonal/Antibodies
Tung Wu	Ph.D.	Organic Chemistry	Herbicide Pesticide; Mutagenic Agents of Atrazine
Fred Nesbitt	Ph.D.	Physical Organic	Spectroscopic Studies of the Stratosphere
Alfred Amah	Ph.D.	Synthetic Organic Chemistry	Synthesis of Polysaccharides
Jacob Adeyeye	Ph.D.	Molecular Biology	Structural Chemistry of the Capsular Polysaccharides of Vibrio Cholera

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.



**Researchers: Academic Background and Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Joseph Amihere	M.B.A.	Business Administration	
Tomi Wahlstrom	Ph.D.	Business Administration/ Computer Information Systems	

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	Elementary Education Health & Physical Education English Education Mathematics Education Biology Education	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer laboratories are available for student use in various educational courses.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Marie Snow	Ed.D.	Educational Leadership	
James Kerr	Ph.D.	Higher Education	
Paul Thompson	Ph.D.	Learning Disabilities	
Marily Mack	M.S.	Physical Education	

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Humanities	English Mass Communications Religion and Philosophy	Bachelors

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jayne Bradford	M.S.	Communications	
Noel Mawer	Ph.D.	English	
Ronnie Smith	M.S.	English Education	
Deloris Sconiers	M.Div.	Religion	
Thomas Baker	M.Ed.	English Education	
Raymond McClintock	M.A.	English	

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Sciences	Criminal Justice Psychology Public Administration Sociology	Bachelors

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Eugene NeSmith	J.D.	Criminal Justice	
Patricia Whittingham	Ph.D.	Psychology	
Eze Ogueri, II	Ph.D.	Political Science Public Administration International Relations	
Kamlesh Jayaswal	M.A.	Sociology	
Cornelius Ejimofor	Ph.D.	Political Science	

**Recent DoD/Other Contract/Grant/Procurement Experiences**

None Indicated

**ELIZABETH CITY STATE UNIVERSITY**  
**Elizabeth City, NC 27909**

**Contact: Ms. Patricia J. Gibbs**                      **Telephone: (252) 335-3250**  
**Director of Sponsored Programs**      **Fax: (252) 335-3106**  
**Email: [pjgibbs@mail.ecsu.edu](mailto:pjgibbs@mail.ecsu.edu)**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Cell Biology/Microbiology	Bachelors, Masters
	Biotechnology/Bioprocessing	Bachelors, Masters

**Laboratories and Other Facilities and Equipment**

Science building with state-of-the-art equipment (ex., PCR thermal cyclers, HPLC, FPLC, UV-visible spectrophotometers, quantitative PCR equipment, digital imaging systems, inverted phase contrast microscopes, fluorescence microscopy systems, CO<sub>2</sub> tissue culture incubators, refrigerated ultracentrifuge, etc.)

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Benerjee Hirendranath	Ph.D.	Molecular Biology	Cancer Biology & Gene Expression Research
Ronald H. Blackmon	Ph.D.	Cell Biology	Regulation of Gene Function in Trypanosomatids; Gene Silencing Using RnAi
Roberto Frontera- Suau	Ph.D.	Microbiology	Bioremediation/Environmental Microbiology
Wanda Gooden	PhD.	Biology	Aquatic Ecology
Gary Harmon	Ph.D.	Cell Biology	Expression and Function of Antioxidant Genes in Plants and Protozoa
Jeffrey Rousch	Ph.D.	Plant Biology	Molecular Biology of Micro photosynthetic Cells
Margaret Young	Ph.D.	Horticulture	Genetic Transformation of Kenaf & Plant Cell Culture; Micro array Analysis

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry & Physics	Chemistry Physics	Bachelors Bachelors

**Laboratories and Other Facilities and Equipment**

Science building with state-of-the-art equipment (ex., UV-visible spectrophotometers, atomic absorption spectrometers, HPLC, Fourier Transform Infrared Spectrophotometer (FT-IR), etc.)

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Ephraim Gwebu	Ph.D.	Biochemistry	Cellular Biochemistry Ethno pharmacology Neurobiology and Neurochemistry
Edmond Koker	Ph.D.	Physical Chemistry	Photochemistry, Molecular Transfer Rates in Solid- Dynamics and State Laser Materials; Photo stability of Drugs
Mamudu Yakubu	Ph.D.	Inorganic Chemistry	Design, Synthesis and Polydentate Ligands and Their Transition Metal complexes that may serve as Models for the Metal Site in Inorganic Biomolecules
Lei Zhang	Ph.D.	Applied Physics	Electro-Optical Properties of Semiconductor and Photo-Advanced Crystalline Emission Physics

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics/Computer Sciences	Computer Information Sciences Mathematics	Bachelors Bachelors

**Laboratories and Other Facilities and Equipment**

Lester Hall houses teaching labs and computer labs for teaching and research. In addition, the Computational Science and Science Visualization Lab are located in the facility. The Center for Remote Sensing Education and Research is located in Dixon Hall. Academic Computing Laboratory has access to computer facilities in the Research Triangle Park of North Carolina and the Southern Regional Network.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Nwojo Agwu	Ph.D.	Math/Computer Science	Systems & Control Theory; Computer Graphics; Vibrational Analysis of Dynamic Systems
Linda Hayden	Ph.D.	Math/Computer Science	Remote Sensing Research; Use of Computers in Marine and Environmental Research
Johnny Houston	Ph.D.	Math/Computer Science	Computational Science & Computer Visualization Techniques
Krishna Kulkarni	Ph.D.	Math/Computer Science	Computer-Aided Software Engineering
Jamiiru Luttamaguzi	Ph.D.	Applied Math	Stochastic Control Theory; Stochastic Differential Equations; Probability Theory and Algorithm Analysis
Vinod Manglik	Ph.D.	Statistics	Statistical Applications In Agric. Systems; Probability Distribution Analysis
Dipendra Sengupta	Ph.D.	Mathematics	Chaotic Dynamics; Use of Technology for Teaching Advanced Mathematics

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Geological, Environmental & Marine Sciences	Geology	Bachelors
	Marine Environmental Sciences	Bachelors

### **Laboratories and Other Facilities and Equipment**

Research facilities on campus and access to cartography equipment off campus. Field experiences available in the Great Dismal Swamp and Utah. New research laboratory.

### **Researchers: Academic Background & Research Specialties**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Kathleen Fischer	Ph.D.	Oceanography	Sediment Geochemistry; Marine & Environmental Science
William Porter	Ph.D.	Geography	Urban and Social Geography; Cartography; GIS
Thomas Rossbach	Ph.D.	Geology	Costal and Marine Geology; Biostratigraphy
Francisco SanJuan	Ph.D.	Geology	Remote Sensing Research; Use of Geographical (GIS) in Environmental Studies

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Technology	Computer & Electronics	Bachelors
	Mechanical & Manufacturing	Bachelors
	Computer Networking Technology	Bachelors

### **Laboratories and Other Facilities and Equipment**

Research facilities on campus and access to state-of-the-art labs covering CAD/CAM, computer networking, material testing, electronics, polymer composites, robotics and aviation science.

### **Researchers: Academic Background & Research Specialties**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Akbar Eslami	Ph.D.	Mechanical	Reduction of the Noise and Vibration when Cars go by. Engineering in Civilian Airplanes; Application of Finite Elements Methods and Design Optimization
Ellis Lawrence	Ed.D.	Voc/Tech Education	Fiber Optics; CAD/CAM & Digital Electr. Stereo lithography

**FLORIDA INTERNATIONAL UNIVERSITY**  
**Miami, FL 33199**

**Contact: Dean Ronald Berkman**

**Telephone: (305) 348-5840**

**Fax: (305) 348-5980**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
School of Public Health	Health Promotion	MPH
	Public health Nutrition	Online MPH
		Doctorate
		Masters
		Bachelors

**Laboratories and Other Facilities and Equipment**

Food Lab, Food Sciences Lab, Dietetics & Nutrition Research Labs,  
 Environmental/Occupational Health Labs, Computer Labs.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dev Pathak	Ph.D.	Public Health	Pharmaceuticals; Administra
William Darrow	Ph.D.	Public Health	HIV/AIDS
Jessy Devieux	Ph.D.	Public Health	HIV/AIDS
Janvier Gasana	Ph.D.	Public Health	Lead Poisoning
Pablo Greer	M.D.	Public Health	Community Health
Way Way Hlaing	Ph.D.	Public Health	Epidemiology
Robert Malow	Ph.D.	Public Health	HIV/AIDS
Andrew Miracle	Ph.D.	Public Health	Culture and Care; Human Sexuality
Richard Patton	M.S.	Public Health	Health Education
MaryJo Trepka	Ph.D.	Public Health	Epidemiology
	M.D.		
Max Rothman	L.L.D.	Center on Aging	Elder Care
Burton Dunlop	Ph.D.	Center on Aging	Elder Care
Dian Weddle	Ph.D.	Dietetics & Nutrition	Nutrition & Aging
Mariana Baum	Ph.D.	Dietetics & Nutrition	Nutrition & HIV
Adriana Campa	Ph.D.	Dietetics & Nutrition	Nutrition & HIV
Victoria Castellanos	Ph.D.	Dietetics & Nutrition	Nutrition & Aging
Michele Ciccazzo	Ph.D.	Dietetics & Nutrition	Public Nutrition; Diet & Ath
Zixca Dixon	Ph.D.	Dietetics & Nutrition	Food Science
Evelyn Enrione	Ph.D.	Dietetics & Nutrition	Public Health Nutrition
Valerie George	Ph.D.	Dietetics & Nutrition	Obesity
Susan Himburg	Ph.D.	Dietetics & Nutrition	Nutrition Management

Fatma Huffman	Ph.D.	Dietetics & Nutrition	Diabetes
Marcia Magnus	Ph.D.	Dietetics & Nutrition	Nutrition Education
Terese Maitland	Ph.D.	Dietetics & Nutrition	Nutrition Education
Nancy Wellman	Ph.D.	Dietetics & Nutrition	Nutrition & Aging
Gloria Deckard	Ph.D.	Policy & Management	Health Management
Kristina Guo	Ph.D.	Policy & Management	Health Management
Fred Newman	Ph.D.	Policy & Management	Research Methods
Nazmi Sari	Ph.D.	Policy & Management	Health Economics
Won Suh	Ph.D.	Policy & Management	Health Finance

**PROGRAM 2**

School of Nursing

**SPECIALTY**

Nurse Anesthetists  
Nurse Practitioners

**DEGREE LEVEL**

Ph.D.  
MSN  
BSN  
RN to BSN

**Laboratories and Other Facilities and Equipment**

Anesthesiology Teaching Lab, Mock Operating Room Teaching Lab, Computer Labs.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Divina Grossman	Ph.D.	Nursing	Nursing Administration
Dorothy Brooten	Ph.D.	Nursing	Maternal & Child Care
Kathleen Blais	Ph.D.	Nursing	Community Nursing
Kathryn Anderson	Ph.D.	Nursing	Community Nursing
Marie-Luise Friedema	Ph.D.	Nursing	Culture & Nursing
Daisy Galindo-Ciocon	Ph.D.	Nursing	Community Nursing
Margaret Hamilton	Ph.D.	Nursing	Community Nursing
Sandra Jones	Ph.D.	Nursing	HIV/AIDS
John McDonough	Ph.D.	Nursing	Anesthesiology
Sue Phillips	Ph.D.	Nursing	Community Nursing
Luz Porter	Ph.D.	Nursing	Alternative Care & HIV
JoAnne Youngblut	Ph.D.	Nursing	Pediatric Head Trauma

**PROGRAM 3**

School of Policy & Management

**SPECIALTY**

Public Administration  
Criminal Justice

**DEGREE LEVEL**

Ph.D.  
MPH  
BS  
MS  
BS

**Laboratories and Other Facilities and Equipment**

Computer Lab.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Harvey Averch	Ph.D.	Public Administration	Urban Government
Fred Becker	Ph.D.	Public Administration	

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
School of Social Work	Children & Families	Ph.D.
	Drug & Alcohol Abuse	MSW
		BSW

**Laboratories and Other Facilities and Equipment**

Computer Lab, Viewing Rooms, Interview Rooms.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Ray Thomlison	Ph.D.	Social Work	Administrative Policy
Welker Mitchell	Ph.D.	Social Work	Welfare Policy
Richard Beaulaurier	Ph.D.	Social Work	Community Organizations
David Cohen	Ph.D.	Social Work	Social Policy
Mario de la Rosa	Ph.D.	Social Work	Alcohol & Drug Abuse
Andres Gil	Ph.D.	Social Work	Alcohol & Drug Abuse
Mark MacGowan	Ph.D.	Social Work	Alcohol & Drug Abuse
Miriam Potocky-Tripodi	Ph.D.	Social Work	Immigration Policy
Christopher Rice	Ph.D.	Social Work	Alcohol & Drug Abuse
Barbara Thomlison	Ph.D.	Social Work	Children & Families
Eric Wagner	Ph.D.	Social Work	Alcohol & Drug Abuse
Stephen Wong	Ph.D.	Social Work	Community Welfare

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
School of Health	Communication Sciences & Disorders	MS MOT
	Occupational Therapy	MPT
	Physical Therapy	

**Laboratories and Other Facilities and Equipment**

Teaching Labs, Motion Analysis Lab, Audiology Lab, Speech & Hearing Clinic, Computer Lab

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Noma Anderson	Ph.D.	Com. Sciences & Disorders	Speech & Hearing

Lemmietta McNeilly	Ph.D.	Com. Sciences & Disorders	Speech & Hearing
Alfredo Ardila	Ph.D.	Com. Sciences & Disorders	Speech & Hearing
Eliane Ramos	Ph.D.	Com. Sciences & Disorders	Speech & Hearing
Pam Shaffner	MOT	Occupational Therapy	Occupational Therapy
Gail Hills	Ph.D.	Occupational Therapy	Aging
Susan Kaplan	Ph.D.	Occupational Therapy	Educational Technology
Patricia Scott	Ph.D.	Occupational Therapy	ADA Policy
Helen Cornley	Ph.D.	Physical Therapy	Geriatric, Falls & Balance
Leonard Elbaum	Ph.D.	Physical Therapy	Motion Analysis
Lori Gusman	Ph.D.	Physical Therapy	Sports Medicine
Awilda Haskins	Ph.D.	Physical Therapy	Cultural Diversity
Neva Sanchez	Ph.D.	Physical Therapy	Aging
Colleen Rose-St. Prix	Ph.D.	Physical Therapy	PT Education

**Recent DoD/Other Contract/Grant Procurement Experience:**

**Agency:** Administration on Aging/DHHS  
**Funding Level:** \$493,500.00 **Year:** 9/3/2002  
**Project Director:** Nancy Wellman  
**Title of Project:** National Policy & Resource Center on Nutrition and Aging: Nutrition 2030 Reduction Health Disparities.

**Agency:** Administration Federal on Aging/DHHS  
**Funding Level:** \$7,900.00 **Year:** 3/6/2003  
**Project Director:** Nancy Wellman  
**Title of Project:** National Policy and Resource Center on Nutrition and Aging: Nutrition 2030.

**Agency:** Bureau of Health Professions/health Resources and Services Administration/DHHS  
**Funding Level:** \$192,888.00 **Year:** 6/30/2003  
**Project Director:** Divina Grossman  
**Title of Project:** PRIDE: Initiative to Increase RN Workforce Diversity.

**Agency:** Bureau of Federal Health Professions/Health Resources and Service Administration/DHHS  
**Funding Level:** \$141,945.00 **Year:** 5/30/2003  
**Project Director:** Awilda Haskins  
**Title of Project:** Scholarships for Disadvantages Students-Physical Therapy.

**Agency:** Centers for Disease Control and Prevention/DHHS  
**Funding Level:** \$14,373.00 **Year:** 9/27/2002  
**Project Director:** William Darrow

**Title of Project:** Eliminating Disparities in HIV Disease in Broward County (2001-2002).

**Agency:** Department of Health & Human Services  
**Funding Level:** \$930,090.00 **Year:** 11/1/2002  
**Project Director:** William Darrow  
**Title of Project:** 2002-2003 Racial and Ethnic Approaches to Community Health Year 1.

**Agency:** Department of Health & Human Services  
**Funding Level:** \$103,019.00 **Year:** 8/21/2002  
**Project Director:** Marie-Luise Friedemann  
**Title of Project:** Scholarships for Disadvantaged Students.

**Agency:** Department of Health & Human Services  
**Funding Level:** \$151,580.00 **Year:** 6/3/2003  
**Project Director:** Marie-Luise Friedemann  
**Title of Project:** Scholarships for Disadvantaged Students.

**Agency:** Department of Health & Human Services  
**Funding Level:** \$175,368.00 **Year:** 7/26/2002  
**Project Director:** Susan Himburg  
**Title of Project:** HCOP 93.822 Health Sciences Recruitment and Retention Program.

**Agency:** Department of Health & Human Services  
**Funding Level:** \$172,965.00 **Year:** 3/25/2003  
**Project Director:** Susan Himburg  
**Title of Project:** HCOP 93.822 Health Sciences Recruitment and Retention Program.

**Agency:** Department of Health & Human Services  
**Funding Level:** \$144,198.00 **Year:** 6/3/2003  
**Project Director:** Virginia McCoy  
**Title of Project:** Scholarships for Disadvantaged Students.

**Agency:** Department of Health & Human Services  
**Funding Level:** \$8,451.00 **Year:** 5/6/2003  
**Project Director:** John McDonough  
**Title of Project:** FIU Nurse Anesthesia Traineeship.

**Agency:** Health Resources and Services Administration/DHHS  
**Funding Level:** \$30,726.00 **Year:** 5/20/2003  
**Project Director:** Kathleen Blais  
**Title of Project:** Scholarships for Disadvantaged Students.

**Agency:** Health Resources and Services Administration/DHHS  
**Funding Level:** \$37,096.00 **Year:** 3/25/2003  
**Project Director:** Janvier Gasana  
**Title of Project:** Partnership Against Lead Project PAL.

**Agency:** Health Resources and Services Administration/DHHS  
**Funding Level:** \$349,182.00 **Year:** 6/17/2003  
**Project Director:** John McDonough  
**Title of Project:** Expanding a Culturally Diverse Nurse Anesthesia Program.

**Agency:** Health Resources and Services Administration/DHHS  
**Funding Level:** \$90,151.00 **Year:** 4/22/2003  
**Project Director:** Luz Porter  
**Title of Project:** Advanced Education Nursing Traineeship.

**Agency:** Maternal and Child Health Bureau/Health Resources and Services Administration/DHHS  
**Funding Level:** \$44,263.00 **Year:** 6/30/2003  
**Project Director:** Sandra Lobar  
**Title of Project:** Center for Leadership in Pediatric and Family Nursing.

**Agency:** National Institute on Alcohol Abuse and Alcoholism/NIH/DHHS  
**Funding Level:** \$266,950.00 **Year:** 8/13/2002  
**Project Director:** Andres Gil  
**Title of Project:** Treatment of Alcohol Problems for Violence Prone Youth.

**Agency:** National Institute on Alcohol Abuse and Alcoholism/NIH/DHHS  
**Funding Level:** \$545,561.00 **Year:** 10/2/2002  
**Project Director:** Eric Wagner  
**Title of Project:** Alcohol Treatment Targeting Adolescents in Need FDP.

**Agency:** National Institute of Drug Abuse/NIH/DHHS  
**Funding Level:** \$641,196.00 **Year:** 5/13/2003  
**Project Director:** Mario De La Rosa  
**Title of Project:** Latino Minority Drug Abuse Research Center.

**Agency:** National Institute on Drug Abuse/NIH/DHHS  
**Funding Level:** \$149,191.00 **Year:** 6/30/2003  
**Project Director:** Jessy G. Devieux  
**Title of Project:** Reducing HIV Risk in Drug Abusing Youth.

**Agency:** National Institute on Drug Abuse/NIH/DHHS  
**Funding Level:** \$100,000.00 **Year:** 1/10/2003  
**Project Director:** Robert Malow  
**Title of Project:** Cognitive Behavioral Treatment of HIV + Drug Abusers Supplement (Development of Culturally Sensitive Interventions for HIV + Haitian Adults.)

**Agency:** National Institute on Drug Abuse/NIH/DHHS  
**Funding Level:** \$578,385.00 **Year:** 6/30/2003  
**Project Director:** Robert Malow  
**Title of Project:** Cognitive Behavioral Treatment of HIV + Drug Abusers.

**Agency:** National Institute on Drug Abuse/NIH/DHHS  
**Funding Level:** \$583,647.00 **Year:** 6/30/2003  
**Project Director:** Robert Malow  
**Title of Project:** HIV Prevention for Adolescents: Research to Practice.

**Agency:** National Institutes of Health DHHS  
**Funding Level:** \$75,926.00 **Year:** 9/17/2002  
**Project Director:** Marianna Baum  
**Title of Project:** Zinc Therapy in Zinc Deficient HIV + Drug Users.

**Agency:** National Institutes of Health/DHHS  
**Funding Level:** \$754,504.00 **Year:** 6/19/2003  
**Project Director:** Marianna Baum  
**Title of Project:** Zinc Therapy in Zinc Deficient HIV+ Drug Users.

**Agency:** U.S. Agency for International Development  
**Funding Level:** \$434,216.00 **Year:** 12/9/2002  
**Project Director:** Luis Salas  
**Title of Project:** The Nicaraguan Code and Modernization Project

**Agency:** U.S. Agency for International Development.  
**Funding Level:** \$450,000.00 **Year:** 4/30/2003  
**Project Director:** Luis Salas  
**Title of Project:** The Nicaraguan Code Reform and Modernization Project.

**Agency:** U.S. Agency for International Development  
**Funding Level:** \$474,023.00 **Year:** 6/12/2003  
**Project Director:** Luis Salas  
**Title of Project:** The Nicaraguan Code Reform and Modernization Project.

**Agency:** Anesthesia Consultants of the Palm Beaches  
**Funding Level:** \$195,000.00 **Year:** 4/17/2003  
**Project Director:** John McDonough  
**Title of Project:** Anesthesiology Nursing Faculty Support Agreement.

**Agency:** Health Choice Network  
**Funding Level:** \$12,300.00 **Year:** 9/27/2002  
**Project Director:** Divina Grossman  
**Title of Project:** Cultural Competency Program (2002-2003.)

**Agency:** Inflexxion  
**Funding Level:** \$1,875.00 **Year:** 11/27/2002  
**Project Director:** Michelle Ciccazzo  
**Title of Project:** Miscellaneous Account: Internet Based Nutrition Education for College Students Phase 1

**Agency:** Inflexxion  
**Funding Level:** \$1,600.00 **Year:** 10/11/2002  
**Project Director:** Frederick Newman  
**Title of Project:** Internet Based Stress Management for College Students: A Collaborative Study.

**Agency:** Research Triangle Institute  
**Funding Level:** \$20,000.00 **Year:** 10/30/2002  
**Project Director:** Dorothy Brooten  
**Title of Project:** Healthy Children Health Homes.

**Agency:** Research Triangle Institute  
**Funding Level:** \$90,000.00 **Year:** 2/4/2003  
**Project Director:** Dorothy Brooten  
**Title of Project:** Healthy Children, Health Homes

**Agency:** Welfare to Work Partnership  
**Funding Level:** \$436.00 **Year:** 9/18/2002  
**Project Director:** James Rivers  
**Title of Project:** The Miami Biz Link Law Project.

**Agency:** Aetna Foundation Inc.  
**Funding Level:** \$10,000.00 **Year:** 11/1/2002  
**Project Director:** Sande Jones  
**Title of Project:** Caribbean/West Indies Cultural Competency Nurses Training Program.

**Agency:** FL International University Foundation  
**Funding Level:** \$5,000.00 **Year:** 4/28/2003  
**Project Director:** Adriana Campa  
**Title of Project:** Effects of Zinc Supplementation on Plasma Zinc Deficient Person.

**Agency:** FL International University Foundation  
**Funding Level:** \$4,990.00 **Year:** 4/29/2003  
**Project Director:** Sande Jones  
**Title of Project:** Enhancing Parental Communications as an HIV Prevention Intervention for Young Adults.

<b>Agency:</b>	FL International University Foundation	
<b>Funding Level:</b>	\$5,000.00	<b>Year:</b> 4/29/2003
<b>Project Director:</b>	Nazmi Sari	
<b>Title of Project:</b>	Quality Discrimination in Healthcare Markets.	
<b>Agency:</b>	Foundation for Physical Therapy	
<b>Funding Level:</b>	\$40,000.00	<b>Year:</b> 2/10/2003
<b>Project Director:</b>	Neva Kirk-Sanchez	
<b>Title of Project:</b>	Factors related to adherence to a home exercise program after discharge from Outpatient Physical Therapy.	
<b>Agency:</b>	Health Foundation of South Fl	
<b>Funding Level:</b>	\$76,179.00	<b>Year:</b> 1/24/2003
<b>Project Director:</b>	Janvier Gasana	
<b>Title of Project:</b>	Partnership Against Lead (PAL) Project.	
<b>Agency:</b>	City of Key West	
<b>Funding Level:</b>	\$24,500.00	<b>Year:</b> 6/17/2003
<b>Project Director:</b>	Edward Murray	
<b>Title of Project:</b>	Key West University Third Part oversight of a Quality of life Study.	
<b>Agency:</b>	City of Miami	
<b>Funding Level:</b>	\$158,000.00	<b>Year:</b> 12/3/2002
<b>Project Director:</b>	Howard Frank	
<b>Title of Project:</b>	2001-2002 Calendar Year Training for City of Miami.	
<b>Agency:</b>	City of Miami	
<b>Funding Level:</b>	\$150,000.00	<b>Year:</b> 4/1/2003
<b>Project Director:</b>	Dario Moreno	
<b>Title of Project:</b>	Earned Income Credit.	
<b>Agency:</b>	City of Miami	
<b>Funding Level:</b>	\$49,500.00	<b>Year:</b> 4/1/2003
<b>Project Director:</b>	Edward Murray	
<b>Title of Project:</b>	City of Miami Feasibility Annexation Study.	
<b>Agency:</b>	City of Miami	
<b>Funding Level:</b>	\$59,500.00	<b>Year:</b> 6/4/2003
<b>Project Director:</b>	Edward Murray	
<b>Title of Project:</b>	City of Miami Targeted Industries Study.	
<b>Agency:</b>	City of West Miami	
<b>Funding Level:</b>	\$20,000.00	<b>Year:</b> 10/22/2003
<b>Project Director:</b>	Ned Murray	
<b>Title of Project:</b>	Evaluation and Appraisal Report.	

**Agency:** Miami-Dade County Cultural Affairs Council  
**Funding Level:** \$14,400.00 **Year:** 6/30/2003  
**Project Director:** Allan Rosenbaum  
**Title of Project:** TDC Ninth Inter-American Conference Mayors and Local Authorities.

**Agency:** Miami-Dade County Department of Health  
**Funding Level:** \$28,000.00 **Year:** 1/21/2003  
**Project Director:** Virginia McCoy  
**Title of Project:** Rubella and Syphilis Screening Study.

**Agency:** Miami-Dade County, department of Health  
**Funding Level:** \$10,000.00 **Year:** 2/17/2003  
**Project Director:** Virginia McCoy  
**Title of Project:** Evaluation of Ryan White Title II 2002-2003 Planning and Services.

**Agency:** Miami-Dade County Department of Human Services  
**Funding Level:** \$45,000.00 **Year:** 11/27/2002  
**Project Director:** Welker Mitchell  
**Title of Project:** Grantsmanship Training.

**Agency:** Miami-Dade County Housing Agency  
**Funding Level:** \$87,700.00 **Year:** 4/11/2003  
**Project Director:** Howard Frank  
**Title of Project:** HUD Privatization.

**Agency:** Miami-Dade County Housing Agency  
**Funding Level:** \$124,000.00 **Year:** 6/26/2003  
**Project Director:** Howard Frank  
**Title of Project:** HUD Privatization.

**Agency:** Miami-Dade County Metropolitan Planning Organization  
**Funding Level:** \$39,490.00 **Year:** 3/20/2003  
**Project Director:** Jill Strube  
**Title of Project:** Transportation for New Century.

**Agency:** Miami-Dade County Metropolitan Planning Organization  
**Funding Level:** \$37,400.00 **Year:** 3/27/2003  
**Project Director:** Jill Strube  
**Title of Project:** Citizens' Guide to Transportation.

**Agency:** Miami-Dade County Seaport  
**Funding Level:** \$130,000.00 **Year:** 1/30/2003  
**Project Director:** Allan Rosenbaum  
**Title of Project:** Ninth Inter-American Conference of Mayors and Local Authorities.

**Agency:** Miami-Dade County Tourist Development Council  
**Funding Level:** \$14,400.00 **Year:** 9/30/2002  
**Project Director:** Allan Rosenbaum  
**Title of Project:** Eight Inter-American Conference of Mayors and Local Authorities TDC Grant.

**Agency:** City of Miami Springs  
**Funding Level:** \$25,000.00 **Year:** 5/13/2003  
**Project Director:** Edward Murray  
**Title of Project:** N.W. 36<sup>th</sup> Street Commercial Corridor Market Study.

**Agency:** Miscellaneous Donors  
**Funding Level:** \$5,000.00 **Year:** 6/24/2003  
**Project Director:** Janvier Gasana  
**Title of Project:** Florida Alliance to Eradicated Childhood Lead Poisoning.

**Agency:** Miscellaneous Donors  
**Funding Level:** \$1,500.0 **Year:** 2/4/2003  
**Project Director:** Frederick Newman  
**Title of Project:** Miscellaneous

**Agency:** 2001 Drug Free Communities Program  
**Funding Level:** \$21,429.00 **Year:** 1/27/2003  
**Project Director:** Vandon White  
**Title of Project:** "Across Ages." Integrational Learning.

**Agency:** A Cherokee Teen Talking Circle  
**Funding Level:** \$5,000.00 **Year:** 3/13/2003  
**Project Director:** John Lowe  
**Title of Project:** Association of Nurses in AIDS Care, Metro Miami Chapter.

**Agency:** Camillus House  
**Funding Level:** \$38,134.00 **Year:** 10/16/2002  
**Project Director:** James Rivers  
**Title of Project:** Targeted Capacity Expansion Program for Substance Abuse Treatment and HIV/AIDS Services.

**Agency:** Community for Developmental Handicaps Inc.  
**Funding Level:** \$600.00 **Year:** 3/20/2003  
**Project Director:** Leonard Elbaum  
**Title of Project:** Physical Therapy Evaluation Consultation & Caregiver Education project

**Agency:** Dade County Area Health Education Center  
**Funding Level:** \$17,200.00 **Year:** 9/23/2002  
**Project Director:** Divina Grossman

**Title of Project:** Nursing

**Agency:** Drug-Free Youth in Town  
**Funding Level:** \$50,000.00 **Year:** 12/9/2002  
**Project Director:** Eric Wagner  
**Title of Project:** DFYITDOH Evaluation.

**Agency:** Drug-Free Youth in Town  
**Funding Level:** \$20,000.00 **Year:** 5/29/2003  
**Project Director:** Eric Wagner  
**Title of Project:** DFYITDOH Evaluation.

**Agency:** Miami-Dade County Area Health Education Center  
**Funding Level:** \$16,300.00 **Year:** 9/5/2002  
**Project Director:** Susan Himburg  
**Title of Project:** Dietician-Subcontract between MD-AHEC and FIU Dietetics & Nutrition.

**Agency:** Miami-Dade County Area Health Education Center  
**Funding Level:** \$5,000.00 **Year:** 12/19/2002  
**Project Director:** Susan Himburg  
**Title of Project:** Dietician-Subcontract between MD-AHEC and FIU Dietetics & Nutrition.

**Agency:** Miami-Dade County Area Health Education Center  
**Funding Level:** \$10,000.00 **Year:** 6/25/2003  
**Project Director:** Susan Kaplan  
**Title of Project:** Community Training in Cardiovascular Health and Wellness.

**Agency:** North-Miami Foundation  
**Funding Level:** \$4,350.00 **Year:** 12/23/2002  
**Project Director:** Stacey Reppas  
**Title of Project:** Meeting The Cultural Food Preferences of Haitian Older Adults Receiving Meals on Wheels.

**Agency:** Capital University  
**Funding Level:** \$16,333.00 **Year:** 10/23/2002  
**Project Director:** Marie-Luise Friedemann  
**Title of Project:** Interdisciplinary Family-Focused Health Care Across Cultures.

**Agency:** Central State University  
**Funding Level:** \$200,000.00 **Year:** 10/10/2002  
**Project Director:** Vandon White  
**Title of Project:** 2002-2003 Family and Community Violence Prevention Program.

<b>Agency:</b>	Central State University	
<b>Funding Level:</b>	\$7,940.00	<b>Year:</b> 11/12/2002
<b>Project Director:</b>	Vandon White	
<b>Title of Project:</b>	2002-2003 Family and Community Violence Prevention Program.	
<b>Agency:</b>	University of Chicago	
<b>Funding Level:</b>	\$7,952.00	<b>Year:</b> 4/17/2003
<b>Project Director:</b>	Liza Stolzenberg	
<b>Title of Project:</b>	ADAM Site Subcontract Miami Florida.	
<b>Agency:</b>	University of Chicago	
<b>Funding Level:</b>	\$110,534.00	<b>Year:</b> 6/19/2003
<b>Project Director:</b>	Liza Stolzenberg	
<b>Title of Project:</b>	ADAM Site Subcontract Miami Florida.	
<b>Agency:</b>	University of Miami	
<b>Funding Level:</b>	\$105,672.00	<b>Year:</b> 9/5/2002
<b>Project Director:</b>	Virginia McCoy	
<b>Title of Project:</b>	Rural and Migrant Drug Users and Their Sexual Risks for HIV.	
<b>Agency:</b>	University of Miami	
<b>Funding Level:</b>	\$2,000.00	<b>Year:</b> 12/23/2002
<b>Project Director:</b>	Christopher Rice	
<b>Title of Project:</b>	Peer Improvement Program (P-TIP.)	
<b>Agency:</b>	University of Miami	
<b>Funding Level:</b>	\$20,243.00	<b>Year:</b> 4/23/2003
<b>Project Director:</b>	Christopher Rice	
<b>Title of Project:</b>	Peer Improvement Program (P-TIP.)	
<b>Agency:</b>	FL Dept of Children and Families	
<b>Funding Level:</b>	\$1,353,270.00	<b>Year:</b> 6/30/2003
<b>Project Director:</b>	Debra Danker	
<b>Title of Project:</b>	FIU-HRS Professional Development Center 2003-2004.	
<b>Agency:</b>	FI Dept of Children and Families	
<b>Funding Level:</b>	\$43,029.00	<b>Year:</b> 2/21/2003
<b>Project Director:</b>	Ray Thomlison	
<b>Title of Project:</b>	Social Work Partnership/Title IVE.	
<b>Agency:</b>	FI Dept of Children and Families	
<b>Funding Level:</b>	\$82,339.00	<b>Year:</b> 6/30/2003
<b>Project Director:</b>	Ray Thomlison	
<b>Title of Project:</b>	Social Work Partnership/Title IVE.	

**Agency:** Fl Office of the Attorney General  
**Funding Level:** \$550,000.00 **Year:** 9/18/2002  
**Project Director:** Luis Salas  
**Title of Project:** Hispanic Crime Prevention Program.

**FLORIDA MEMORIAL COLLEGE**  
**Miami, FL 33054**

*Data from 1996*

**Contact: Dr. Trey Coleman**  
**Director of Sponsored Research**

**Telephone: (305) 626-3609**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Biochemistry	Bachelors

**Laboratories and Other Facilities and Equipment**

Facility consists of 550 square feet of laboratory space. Infra-Red spectrometer, super speed refrigerated centrifuge, wide-bore capillary gas chromatograph, automated clinical analyzer, gel electrophoresis apparatus, lyophilizer, gel chromatography apparatus, fraction collector.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Donald K. Igou	Ph.D.	Biochemistry	Methodology for Automated Analyzers; Environmental Research
William E. Hopper	Ph.D.	Biochemistry	Enzyme Isolation and Kinetic Study
Oliver Ordor	Ph.D.		

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Airway Science	Computer Science Management Air Traffic Control	Bachelors

**Laboratories and Other Facilities and Equipment**

A \$7.4 million Aviation Center that includes an Air Traffic Control Tower, audiovisual auditorium, aviation library, flight planning laboratory, flight simulation laboratory, PC laboratory, radar laboratory and other support offices and classroom; 2500 square feet of

computer science laboratory with 15 PS-2s, anticipated addition of 10 terminals. IBM mini-computer 9375 model 60 VAX mini-computer 6210.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
David L. Hosley	Ed.D.	Educational Administration	Aviation Research and Applied Statistics
Elaine Marshall-Asfour	Ph.D.	Computer Science	

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated



<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business Administration	Accounting General Business M.I.S. Marketing Management	Bachelors

**Laboratories and Other Facilities and Equipment**

Same as above.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
James E. Bell	Ph.D.	Natural Resources/Economics/ (Resource Economics)	

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Criminal Justice	Juvenile Justice Security Management Law Enforcement Corporate Security	Bachelors

**Laboratories and Other Facilities and Equipment**

Same as above.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Mark Abbott	Ph.D.	History	Urban Studies

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** Training Contract for Civilian Personnel  
**Funding Level:** \$ **Year:** 1995-1996  
**Title of Project:** Training Contract for Civilian Personnel

**Agency:** Training and Center for the Children of Military Personnel  
**Funding Level:** \$ **Year:** 1995-1996  
**Title of Project:** Training and Center for the Children of Military Personnel

**HUSTON-TILLOTSON COLLEGE**  
**Austin, TX 78792**

**Contact: Dr. Michael J. McCarthy**                      **Telephone: (512) 505-3019**  
**Director of Institutional Research and Assessment**      **Fax: (512) 505-3198**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business Administration	Entrepreneurial Development Accounting International Marketing	Bachelors

**Laboratories and Other Facilities and Equipment**

This Business Administration Program has an auditorium equipped with built in Audio Visual facilities, several lecture rooms and a new international studies emphasis..

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Steven Edmonds	Ph.D.	Business	International Business

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Political Science	General	Bachelors

**Laboratories and Other Facilities and Equipment**

This Political Science Program has an auditorium equipped with built-in Audio Visual facilities, and several lecture rooms.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Paul Anaejionu	Ph.D.	Public Administration	Integration of Business Software

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer Science	Information Systems Mathematical Applications	Bachelors

**Laboratories and Other Facilities and Equipment**

The Computer Science Program had modern facilities with classrooms, and a computer laboratory with an array of mathematical and statistical applications.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Dr. Thyai-Duong Tran	Ph.D.	Computer Science	

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Education	Early Childhood	Bachelors

**Laboratories and Other Facilities and Equipment**

The Education Program has a well equipped Teacher Education Learning Resource laboratory with models of specific learning centers applicable to public school focuses.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Judith G. Loreda	Ph.D.	Educational Administration	Teaching Methods

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** Department of Defense  
**Funding Level:** \$176,846 **Year:** 2003  
**Title of Project:** Instruments for Scientific Success



**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James Tidwell		Research	Technologies; Pond and Cage Stocking Densities for Channel Catfish and Trout; Nutritional Requirements for Channel Catfish; Reproduction Biology of Paddlefish

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Food and Agricultural Sciences		Bachelors

**Laboratories and Other Facilities and Equipment**

The primary research facility on campus is the 28,000 square foot Atwood Research Facility. The facility contains 7 laboratories, office space for agriculture program. The Research Farm serves as a field laboratory for the plant and soil science programs. The 167-acre farm has a 14-bin grain storage complex, and a shop barn complex. Food and agricultural sciences utilizes science laboratories in cooperation with environmental sciences, mathematics, biological sciences and social sciences. These laboratories contain approximately 19,398 square feet for instruction and 33,298 square feet for research.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Harold R. Benson	Ph.D.	Guidance & Adult Education	Horticulture Education Economics; Plant Sciences

**Recent DoD/Other Contract/Grant/Procurement Experience**

<b>Agency:</b>	USDA	
<b>Funding Level:</b>	\$	<b>Year:</b> Annual
<b>Project Directory:</b>	Dr. Harold Benson	
<b>Title of Project:</b>	Research Apprenticeship Training Program (RAP)	
<b>Agency:</b>	U.S. Health and Human Services	
<b>Funding Level:</b>	\$	<b>Year:</b> Annual
<b>Project Director:</b>	Dr. T.S. Kochhar	
<b>Title of Project:</b>	Minority Biomedical Research Support (MBRS) Program	

**LANE COLLEGE**  
**Jackson, TN 38301-4598**

**Contact: Dr. Wesley Cornelius**

**Telephone:**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Biology	Bachelors

**Laboratories and Other Facilities and Equipment**

The Biology area is housed in the Greer-Armour Science Building equipped with classrooms, assorted laboratories, specialized computer laboratory, and faculty offices.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Satish Mahajan	Ph.D.	Animal Sciences	Animal Reproductive Behavior
Tade Adedokun	Ph.D.	Biology	Minority Health Disparities
Richard Coppings	Ph.D.	Biology	Food Science and Human Nutrition

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Management	Bachelors

**Laboratories and Other Facilities and Equipment**

The Business area is equipped with classrooms and assorted computer laboratories for quality instruction.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Nirmalendu Debnath	Ph.D.	Economics	Economic Aspects of the Effects of Public Transportation in the Development of Cities
M. Austin Zekeri	Ph.D.	Finance	Economic Development in Developing Countries

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
English	English	Bachelors

**Laboratories and Other Facilities and Equipment**

The English area is equipped with classrooms, a computer-assisted Writing Laboratory, other computer laboratories, and specialized support materials.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Patsy Daniels	Ph.D.	Literature and Criticism	Post-Colonial Literature from Ireland, Africa, and America Female Characters in the Novels of Sembene Ousmane

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Sociology	Sociology	Bachelors

**Laboratories and Other Facilities and Equipment**

The Sociology area is equipped with classrooms and computer laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Riad Yehya	Ph.D.	Sociology	Perceptions of Social Problems and Prospects of Success Among Historically Black College Students

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Religion	Religion	Bachelors

**Laboratories and Other Facilities and Equipment**

The religion area is supported by classrooms, computer laboratory, a modern 600-seat chapel and a special collection on the Black Church.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Nathanial Carter	Ph.D.	Sociology	History of the Black Church
David Carefoot	Ph.D.	Religion	

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
History	African-American History	Bachelors

**Laboratories and Other Facilities and Equipment**

The History area is supported by classrooms, computer laboratories, and a special collection on African-American history

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Arthur David	D. Arts	History	Role of the Black Man in the Development of Western Civilization
Victoria Pasley	Ph.D.	History	African Cinema

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics	Mathematics	Bachelors

**Laboratories and Other Facilities and Equipment**

The Mathematics area is supported by classrooms and a mathematics laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jongchul Kim	Ph.D.	Mathematics	
Nooraladin Fattahi	Ph.D.	Applied Mathematics	
Huasong Hin	Ph.D.	Mathematics Algebraic Geometry	

<u>PROGRAM 8</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Physics	Physics	Bachelors

<u>PROGRAM 9</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mass Communications	Print Journalism, Radio/TV	Bachelors

**Laboratories and Other Facilities and Equipment**

The Mass Communications area is supported by classrooms and print journalism and radio/television production laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Musa Kamara	Ph.D.	Broadcast Journalism	

<u>PROGRAM 10</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry	Chemistry	Bachelors

**Laboratories and Other Facilities and Equipment**

The Chemistry area is supported by classrooms and laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Nyanguila Kakolesha	Ph.D.	Chemistry	

<u>PROGRAM 11</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer Science	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

The computer science is supported by classrooms and computer laboratories

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Rolf Martin	Ph.D.	Computer Science	
Saeed Yazdani	M.S.	Computer Science	
Jingwei Lin	M.S.	Computer Science	



**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Conrad Kleinholz	Ph.D.	Fish and Wildlife	Aquaculture
George Luker	M.S.	Fisheries	Aquaculture
Letong Tang	Ph.D.	Limnology	Phycology
Kenneth Williams	M.S.	Fisheries	Fisheries Management

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Plant and Sciences	Crop Physiology	Bachelors

**Laboratories and Other Facilities and Equipment**

A complex of research laboratories designed to meet the requirement for research in the biological sciences, including capability in biochemistry, physiology and electron micro studies.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Vernon Jones	Ph.D.	Plant and Soils	Crop Production; Cropping Systems
George Acquah	Ph.D.	Plant and Soils	Tissue Culture & Genetic Engineering
Kanyard Matand	Ph.D.	Plant and Soils	Tissue Culture & Genetic Engineering
Ning Wu	Ph.D.	Plant and Soils	Tissue Culture & Genetic Engineering

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

**LINCOLN UNIVERSITY, PA**  
**Lincoln, PA 19352**

**Contact: Ms. Janice Walker**  
**Grantsmanship Officer**

**Telephone: (610) 932-8300**  
**Fax: (610) 932-1208**  
**Email: walker@lu.lincoln.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		Bachelors

**Laboratories and Other Facilities and Equipment**

Incubator; Fisher Diemembrator; Spectrophotometer; Stimulator/Recorder; Physiograph Mills; Oscilloscope 76755; Sorvall OTD55B Center; Current Metering Set; Mettler AE100, Balance; Intra-Cell Amplifier; Spectronic 21UVD; Cell 2556/Environmental Chamber.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Chikwem	Ph.D.	Microbiology	HIV/AIDS Epidemiology
B. Marshall Henderson	D.V.M	Veterinary Medicine	Toxicology, Pharmacology, Environmental Toxicology
David F. Royer	Ph.D.	Biology	Microbial Ecology, Environmental Science, Aquatic Biology, Pollution Microbiology
Susan E. Safford	Ph.D.	Zoology Physiology	Physiology, Endocrinology, Cell Culture, Molecular Biology

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Physics	Solid State/High Energy	Bachelors

**Laboratories and Other Facilities and Equipment**

Electromagnetic ESR system; Liquid susceptibility system; Bioanalytical CV27 voltammograph dual channel recorder; Superconductivity magnet; Potentiostat, Dectab, X-Y dual channel recorders, 4pt. probe; PAR Model 360AC Impedance system; Direct vision prism; Neutron beam irradiation facility; Splitbeta Source; Shielded Test Lead; Projection Objective; Mercury vapor lamp; Electric Oven; E27 Screw socket; Adjustable slit; 50mm lens in frame.

Cryogenic Laboratory, Semiconductor Issue Laboratory, Metal Preparation Laboratory, Micro Computer Laboratory, Machine Shop; Major equipment: diffusing pump, magnet resonance detector, fume hood, magnetic resonators with specialized dewers.

General research involvement: Solid State, High Energy, Low Temperature Super Conductivity, Model Optical Sensor and Biomedical Study in Sickle Cell.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Mazharul Huq	Ph.D.	Theoretical Physics	Theoretical High Energy Physics, Application of Technology to Education, Computer Programming
Lynn E. Roberts	Ph.D.	Elementary Particle Theory	Phenomenology, Relative Heavy Ion Collisions, Lattice Gauge Theory, Compositeness, General Relativity & String Theory, Phase Transitions in Heavy Ion Collisions
Stanley S. Tsai	M.M.F.	Thermodynamics and Heat Transfer, Fluid	Nuclear Physics B (FS), Physics Resistivity Research
Willie Williams	Ph.D.	Solid State Physics	Physics Antiferromagnetic, Phenomena in Manganese, Manganese Alloys

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry		Bachelors

**Laboratories and Other Facilities and Equipment**

GC-FT-IR Nicolet 20SXB; UV/Vis Spectrophotometer: Perkin Elmer Model Lambda 3A, Perkin Elmer Model Lambda assay, 340, Perkin Elmer Model 302, Perkin Elmer Model 35, Beckman Model 3600, Bausch & Lomb Spectronic 20 (6 units), Turner Model 330, Turner Model 350; Infrared Spectrophotometer: Acculab, Beckman 4250; NMR Varian T60; Gas Chromatograph: Hewlett Packard 5890, Hewlett Packard 5880, Hewlett Packard 5710, Varian Aerograph 2700; Atomic Absorption Spectrometer, Varian Techtron; Scintillation counter: Packard Tricarb, Chicago Unilux, Polarograph Sergeant-Welch; Differential Scanning Calorimeter-Dupont; Thermal Analyzer Dupont; pH meter: Fisher Model 107 607 (2 units), Fisher Model 107 (4 units), Orion Model 611, Orion Model 811, Orion Model 399, Becan Zeromatic (4 units), Sergeant-Welch; Analytical Balances : Mehler (8 units), Ohaus (4 units), Fisher (1 unit), Cahn Electrobalance; Conductivity Bridge Sybron/Barnstead (2 units), Beckman (1unit); Surface Tensiometer-Fisher (2 unit); Refractometer Bausch & Lamb ABBE; Polarimeter-Bausch & Lamb; Melting Point Apparatus: Centrifuge: CRU 5000 refrigerated centrifuge, Fisher Model 225; Fisher (2 units), Thomas Hoover-Cappillary Melting Point Apparatus; Oven, Furnace, Incubator, etc.: Fisher Model 1.28, Fisher Isotemp, Fisher Isotemp vacuum oven, Precision Scientific Oven, Cenco Oven, Deltech High Temp. Furnace, Mellen Furnace; Centrican Centrifuge Model 12AE-7, Darnon

ITFC (2 units), 21EC Model CL (4 units), IEC Model Micro, Eppendorf Centrifuge Model 5415; Evaporator: Yamato Rotary Evaporator Model RE51, Buchner Rotary Evaporator, Buch; Rotary Evaporator Model R110 (2 units); Fisher-oven isotherm incubator Model 2550; Fisher-oven isotherm incubator Model 411, Napco-Autoclave Model 9000 D; Analytical evaporator N-Evap. Model 112; Fraction Collector: ISCO, LKB; Steam Bath, Precision Scientific; Fisher Water Bath Shaker; Waterbath, Precision Scientific; Freeze dryer, Flexi-Dry; Quick Scan, Titan; Electrophoresis Bio Rad, Model 1415; Protein 11 Slab Gel, Bio Rad; Low Temp Freezer Revco; GC/Mass Spectrophotometer, TTIR, NMR, HPLC, and Several GC's and Visible Mass Spectrophotometer.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
K. Ramachandra Bhat	Ph.D.	Biochemistry	DNA Degradation and Apoptosis, DNA Repair
Robert Langley	Ph.D.	Inorganic Chemistry	Photochemistry of Porphyrins
Saligrama C. SubbaRao	Ph.D.	Physical Inorganic Chemistry	Kinetics; Catalysis; HPLC; Desulfurization of Coal

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics/Computer Science		Bachelors

**Laboratories and Other Facilities and Equipment**

2 IBM AT; 4 IBM PS/2 Model 50; 4 CRT Display and Adapters; Tandy 6000 (XENIX) Base Computer system with six terminals; Scantron Optical Scan Equipment; JVC Computer Image Capturing Equipment; Targa Electronic Board.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Tong T. Banh	Ph.D.	Mathematics	Nonlinear Fourier Analysis
Goro Nagase	Ph.D.	Mathematical Statistics	Mathematical Statistics, Applied Probability, Design of Experiments and Biostatistics
Jawahar Pathak	Ph.D.	Mathematics	Group Actions, Ring Theory, Abstract Algebra
Abdulalim A. Shabazz	Ph.D.	Mathematical Analysis	Mathematical Analysis, Eigenvalue Programs in Integral Equations, Operations in Hilbert Space
Laurelle L. Treisner	Ph.D.	Mathematics	Math Education

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Office of Naval Research  
**Funding Level:** \$110,000 **Year:** 1 Year  
**Project Director:** Dr. Willie Williams  
**Title of Project:** Lincoln Advanced Science and Engineering Reinforcement (LASER) Program

**Agency:** Department of Defense  
**Funding Level:** \$300,000 **Year:** 1 Year  
**Project Director:** Dr. John Chikwem  
**Title of Project:** HIV/AIDS Education Project



Music/Education (K-12)  
 Political Science  
 Psychology  
 Religion  
 Sociology  
 Theater

**Laboratories and Other Facilities and Equipment**

Students who enroll in the dual degree History or Political Science Program attend St. John’s Law School in their fourth year for the completion of their year of Law. After successfully completing one year, they return to Livingston for graduation. Then the graduate will return to St. John for two more years to obtain a law degree.

**Researchers: Academic Background and Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Roshon Attrey	Ph.D.	English	
Nicola Bivens	M.S.	Criminal Justice	
William Crowder	Ph.D.	Music	
Mathew Deforrest	Ph.D.	English	
Diane Fenton	M.S.	Criminal Justice	
Joanne Harrison	M.S.	Music	
Jacqueline Hege	M.S.	English	
Donald Jenkins	Ph.D.	English	
Clara Jones	Ph.D.	Psychology	
Annette Moore	M.S.	English	
Ramona Pate	M.S.	Theater	
Frank Perry, Jr.	Ph.D.	Music	
Allen Saxe	M.S.	Sociology	
Carlene Smith	Ph.D.	Psychology	
James Spiceland	Ph.D.	Religion	
Okori Uneke	Ph.D.	Sociology	
Robert Williams	Ph.D.	Political Science	
Malishai Woodbury	M.S.	History	
William Woods	M.S.	Music/Band Director	

**PROGRAM 3**

Business

**SPECIALTY**Business Administration  
Accounting  
Computer Information  
Systems**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

The School of Business is supported by a computer laboratory and typing laboratory. These facilities provide Livingstone's students with hand-on instruction.

**Researchers: Academic Background & Research Specialty(ies)****NAME****DEGREE****DISCIPLINE****RESEARCH  
SPECIALTY**

R.D. Sharma

Ph.D.

Accounting

Arvind Chauhan

Ph.D.

Business

Joy Thomas

M.S.

Business

Denise Middleton

M.S.

Computer  
Information Systems

Patricia White

Computer  
Information Systems

**MILES COLLEGE**  
**Fairfield, AL 35064**

**Contact:** Mrs. Wynette McWilliams      **Telephone:** (205) 929-1449  
Coordinator of Institutional Research      **Fax:** (205) 929-1453

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Liberal	Open door policy	Bachelors

**Laboratories and Other Facilities and Equipment**

New Science facilities and a Smart Technology Room

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Osman Bannaga	Ph.D.	Biochemistry	Immunology, Parasitology
Charles Woods	Ph.D.	Environmental Science	Environmental Microbiology
Leotis Williams	D.M.D.	Biology	
Sam Subramanian	Ph.D.	Chemistry	Environmental Sciences
Gabi Ideh	Ph.D.	Computer Information Science	CIS
Wynette McWilliams	B.A.	English	Institutional Research
Darren Moss	Masters	Biology	Environmental Sciences
Mohammad Riasati	Masters	Mathematics	Mathematical Research
Vidal Adadevoh	Masters	Computer Information Science	CIS
Margaret Ssenkoloto	Masters	Biology	Bacterial Biology

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** UNCF  
**Funding Level:** \$96,000      **Year:** 1996  
**Project Director:** Charles Woods  
**Title of Project:** PEJER (for Environmental Research)

**Agency:** UNCF  
**Funding Level:** \$100,000                      **Year:** 1997  
**Project Director:** Charles Woods/Darren Moss  
**Title of Project:** BES (for Environmental Research)

**Agency:** NASA  
**Funding Level:** \$90,000                      **Year:** 1996  
**Project Director:** Charles Woods  
**Title of Project:** Epscor (for Biological Sciences)

**Agency:** NSFARI  
**Funding Level:** \$240,000                      **Year:** 1997  
**Project Director:** Leotis Williams  
**Title of Project:** Infrastructure Renovation Grant

**Agency:** Department of Education  
**Funding Level:** \$300,000                      **Year:** 2000  
**Project Director:** Osman Bannaga  
**Title of Project:** MESSIP Curriculum Improvement

**Agency:** National Science Foundation  
**Funding Level:** \$2.4 million                      **Year:** 1999  
**Project Director:** Leotis Williams  
**Title of Project:** HBCU-UP (Science Technology Improvement)

**Agency:** Department of Education  
**Funding Level:** \$300,000                      **Year:** 2002  
**Project Director:** Osman Bannaga  
**Title of Project:** HCOP (for improvement health career opportunities)

**Agency:** NSF  
**Funding Level:** \$180,000                      **Year:** 1991  
**Project Director:** Bernice Cobb  
**Title of Project:** LSAMPS (for increase science graduates)

**MORRIS COLLEGE**  
**Sumter, SC 29150**

**Contact: Dorothy S. Cheagle**

**Telephone: (803) 934-3227**

**Fax: (803) 773-3687**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	Early Childhood Education	Bachelors
	Elementary Education	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer Laboratory

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Broadcast Media	Radio/TV	Bachelors

**Laboratories and Other Facilities and Equipment**

TV Studio and Radio Station.

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** U.S. Department of Education  
**Funding Level:** \$265,805      **Year:** 2000-2003  
**Project Director:** Dr. Radman Ali  
**Title of Project:** Mathematics, Science, and Engineering Improvement Project

**Agency:** National Science Foundation/South Carolina State University  
**Funding Level:** @ \$33,000/year      **Year:** 2002-2007  
**Project Director:** Dr. Radman Ali  
**Title of Project:** South Carolina Alliance for Minority Participation (SCAMP)



Daniel Williams	Ph.D.	Biology	CNS Neurotransmitters
Maureen Romine	Ph.D.	Biology	Soil/Plant Interactions
Merritt Helvenston	Ph.D.	Chemistry	Inorganic Chemistry
James Huntley	Ph.D.	Chemistry	Biochemistry
David Sammeth	Ph.D.	Chemistry	Macular Degeneration; Laser Optics
David Wiedenfeld	Ph.D.	Chemistry	Electron Flow in Photosynthesis
David Hacker	Ph.D.	Nat. Res. Mgmt.	Forestry
Jennifer Lindline	Ph.D.	Nat. Res. Mgmt.	Environmental Geology
Michael Meyer	Ph.D.	Nat. Res. Mgmt.	Water Shed Management.
Kenneth Bentson	Ph.D.	Nat. Res. Mgmt.	Toxicology

**PROGRAM 2**

**SPECIALTY**

**DEGREE LEVEL**

Behavioral Sciences

Psychology

B.A., B.S., M.S.

**Laboratories and Other Facilities and Equipment**

Animal Learning Laboratory with a 300-rat vivarium; Behavioral Neuroscience Laboratory; Research site for child behavior with observation room and video/control room. A one-way shuttle, (single passive avoidance apparatus) (GEMINI PCI 6503) and computer with which to operate the apparatus, are all available 100% of the time for this subproject.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Arlene Horne	Ph.D.	Psychology	Glucose and Modulation of Memory
Linda LaGrange	Ph.D.	Psychology	Feto-Protective Effects of Silymarin
Jean Hill	Ph.D.	Psychology	Hispanic Girls Self-Concept
Carlton Cann	Ph.D.	Psychology	Program Evaluation
Steve Fox	Ph.D.	Psychology	South African Refugee Trauma

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Social Work	Gerontology, General Social Work	B.S.W., M.S.W.

**Laboratories and Other Facilities and Equipment**

Research conducted through field-based practicum program in Social Service Institutions such as hospitals, mental health clinics, senior citizen centers, and rest homes.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Rey Martinez	Ph.D.	Social Work	Child Protection from Methamphetamine Exposure
Roberto Villa	Ph.D.	Social Work	Youth Alcohol Prevention

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Education	Administrator Preparation	Masters
	Teacher Preparation	Bachelors
	Bilingual/Bicultural	Bachelors
	Rehabilitation Counseling	Masters

**Laboratories and Other Facilities and Equipment**

Micro-teaching laboratory; Early childhood education site.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
James Alarid	Ph.D.	Special Education	Substance Control; Counseling for Disadvantaged Youth
Belinda Laumback	Ph.D.	Elementary Education	Elementary Education
Chris Nelson	Ph.D.	Special Education	Special Education
Joseph Sabutis	Ph.D.	Science Education	Science Education

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated.

**NEW MEXICO STATE UNIVERSITY**  
**Las Cruces, NM 88003-8001**

<b>Contact: Dr. Wynn Egginton</b>	<b>Telephone: (505) 646-3592</b>
<b>Assistant to the Vice Provost for</b>	<b>Fax: (505) 646-2480</b>
<b>Research</b>	<b>Email: wegginto@nmsu.edu</b>

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology/Chemistry/Physics		Bachelors
Molecular Biology		Masters
		Ph.D.

**Laboratories and Other Facilities and Equipment**

Biology: Controlled environment lab; 65,000 plant specimens and 60,000 vertebrate skeletal specimens; modern electron and confocal microscope facility; extensive greenhouses; Lab for Ecological and Evolutionary Genetics; animal care facilities.

Chemistry/Biochemistry: Array of spectrometers; differential scanning calorimeter; spectropolarimeter with circular dichroism attachment; atomic absorption spectrometer; plasma emission spectrometer; rapid scanning spectrophotometer; molectron nitrogen laser systems; array of centrifuges; electrophoresis equipment; digital instruments scanning tunneling and atomic force microscope system.

Physics: ultrafast lasers, scanning probe microscopes, electron microscopes, mass spectrometers, x-ray spectrometer, photoemission spectrometer.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Marvin Bernstein	Ph.D.	Zoology	Animal Physiology
Vincent P. Gutschick	Ph.D.	Biology	Plan Physiology & Ecology
Daniel J. Howard	Ph.D.	Biology	Evolutionary Biology & Genetics
Brook Milligan	Ph.D.	Biology	Evolutionary Genetics
Kevin H. Oshima	Ph.D.	Microbiology	Viral Diagnostics & Fish Virology
Elba Serrano	Ph.D.	Biology	Neuroscience/Biophysics
Geoffrey B. Smith	Ph.D.	Microbiology	Environmental Microbiology
Glenn D. Kuehn	Ph.D.	Biochemistry	Polymine Metabolism
William B. Lott	Ph.D.	Biochemistry	RNA Structure/Function
Claudia Trevino	Ph.D.	Biochemistry	Molecular Mediation of Fertilization

Gary A. Eiceman	Ph.D.	Analytical Chemistry	Ion Mobility Spectrometry
Joseph Wang	Ph.D.	Analytical Chemistry	Remote Sensing/DNA Recognition
Jeffrey B. Arterburn	Ph.D.	Organic Chemistry	Metal-Ligand Bonds/Antivirals
Aravamudan S. Gopalan	Ph.D.	Organic Chemistry	Organic Synthesis
Robert L. Armstrong	Ph.D.	Physics	Experimental Optics/Laser Physics
Heinz Nakotte	Ph.D.	Physics	Experimental Condensed Matter
Jane G. Zhu	Ph.D.	Physics	Experimental Materials Science
Gary Kyle	Ph.D.	Physics	Particle and Nuclear Physics
Jacob Urquidi	Ph.D.	Physics	Neutron Scattering
Igor Vasiliev	Ph.D.	Physics	Materials Science

### **PROGRAM 2**

Computer Science

### **SPECIALTY**

### **DEGREE LEVEL**

Bachelors  
Masters  
Ph.D.

### **Laboratories and Other Facilities and Equipment**

Heterogeneous system of distributed workstations running Solaris, Linux, Windows 2000, and XP, all connected by a segmented Gigabit Ethernet backbone. 16-cpu HP shared memory machine, Sun Enterprise Server 4500, multi-processor Sun workstations, four 4-cpu Pentium III based multiprocessors and a 64 node parallel processing cluster. Over 1.5 terabytes of on-line storage.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Roger T. Hartley	Ph.D.	Computer Engineering	Software Process
Jing He	Ph.D.	Computational Biology	Protein Structure Prediction
Clinton Jeffery	Ph.D.	Computer Science	Automata/Formal Languages
Enrico Pontelli	Ph.D.	Computer Science	Programming Languages
Desh Ranjan	Ph.D.	Computer Science	Complexity Theory
Cao Son Tran	Ph.D.	Computer Science	Knowledge Representation

### **PROGRAM 3**

Agronomy & Horticulture

### **SPECIALTY**

### **DEGREE LEVEL**

Bachelors  
Masters  
Ph.D.

### **Laboratories and Other Facilities and Equipment**

Controlled environment labs, extensive greenhouses, animal care facilities.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
J.T. Fisher	Ph.D.	Silviculture	Forest Physiology
J. Barrow	Ph.D.	Horticulture	Genetics
P.W. Bosland	Ph.D.	Horticulture	Chile Breeding/Genetics
C.S. Cramer	Ph.D.	Horticulture	Onion Breeding
W. Lindemann	Ph.D.	Horticulture	Soil Microbiology
B.C. McCaslin	Ph.D.	Horticulture	Soil Fertility
J.G. Mexal	Ph.D.	Horticulture	Nursery & Forest Crops
T.W. Sammis	Ph.D.	Hydrology	Hydrology
C. Sengupta- Gopalan	Ph.D.	Horticulture	Biochemical Genetics

### **PROGRAM 4**

Electrical & Computer  
Engineering

### **SPECIALTY**

### **DEGREE LEVEL**

Bachelors  
Masters  
Ph.D.

### **Laboratories and Other Facilities and Equipment**

Array of computing facilities, High Performance Computing Lab, Electromagnetics Lab.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Stephen Horan	Ph.D.	Electrical Engineering	Telemetry Systems
Jeanine Cook	Ph.D.	Electrical Engineering	Computer Architecture
Charles D. Creusere	Ph.D.	Electrical Engineering	Multirate Filter Banks/Wavelets
Krist Petersen	Ph.D.	Electrical Engineering	Human-Machine Interface
Steven P. Castillo	Ph.D.	Electrical Engineering	Electromagnetic Theory
Jaime Ramirez- Angulo	Ph.D.	Electrical Engineering	Microelectronics

**Recent DoD/Other Contract/Grant/Procurement Experience (Selected List of Projects)**

**Agency:** DoD/Army  
**Funding Level:** \$1,799,996 **Year:** 2003-2004  
**Project Director:** W. Gutman  
**Title of Project:** Predictive Technical Support Services

**Agency:** DoD/Army  
**Funding Level:** \$284,931 **Year:** 2002-2006  
**Project Director:** M. Quinones  
**Title of Project:** High "G" Telemetry Support

**Agency:** DoD/Army/ARL  
**Funding Level:** \$631,714 **Year:** 2003-2004  
**Project Director:** J. Esparza  
**Title of Project:** ARL/IST/BE

**Agency:** DoD/Army/WSMR  
**Funding Level:** \$4,205,850 **Year:** 2003-2004  
**Project Director:** J. Esparza  
**Title of Project:** IOVSA

**NORTHEAST INDIAN COLLEGE**  
**Bellingham, WA 98226-9217**

**Contact: Cheryl Crazy Bull**

**Telephone: (360) 676-2772 (9241)**

**Fax: (360) 738-0136**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

**PROGRAM 1**

**SPECIALTY**

**DEGREE LEVEL**

National Indian Center for  
Marine Environmental  
Research and Education

**Laboratories and Other Facilities and Equipment**

Marine facilities including access to fish hatcheries (2), shellfish hatchery, tidelands, bioreactor, science and chemistry labs, K-20 network, Cooperative agreements with NWFSC (NOAA) provides additional 300+ scientists and research facilities.

**Researchers: Academic Background & Research Specialty (NICMERE):**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Roberto Gonzalez-Plaza	Ph.D.	Biology	Cellular Biology
Richard Poole	M.S.	Fisheries	Aquaculture/Crustaceans/Shellfish
Mike Cochrane	M.S.	Biology	Environmental
Kelly Tessitore			
Mark Moss	B.S.	GIS/Biology	Computer Science/GIS
Charlotte Clausing	B.S.	Biology	Environmental Sciences
Charles Scott	ATA	Aquaculture	Aquaculture

Cooperative Agreements with NWFSC (NOAA) add 300 plus scientists available to NWIC TENRM provides selective faculty from Huxley College for science/math support.

**PROGRAM 2**

**SPECIALTY**

**DEGREE LEVEL**

Science/Engineering  
Department

Anthropology/Computer/Behavioral Ph.D.-B.S

### **Laboratories and Other Facilities and Equipment**

GIS lab, science and chemistry lab, K-20 video conferencing, computer classroom, and access to Huxley and other institutes through TENRM Project.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Brian Compton	Ph.D.	Botany	Botany
John Rambold	M.F.S.I.	Forest Science	Forestry
Sharon Kinley	M.A.	Anthropology	Native Studies
Ted Williams	M.A.	Applied Behavioral Science	Science
Peter Sheldon	B.A.	History	Learning Studies
Helen Warbus	M.E.	Coastal Engineering	Hydraulics
Voir Hillaire	B.A.	Computer Major	Computer Science

### **Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** NSF, EPA, NOAA, Packard Foundation, Department Agriculture, etc.  
**Funding Level:** \$6,000,000      **Year:** 2002

**PAN AMERICAN UNIVERSITY**  
**Edinburg, TX 78541**

**Contact: Dr. Wendy Lawrence-Fowler**                      **Telephone: (956) 381-2889**  
**Associate Vice President for Research**              **Fax: (956) 381-2863**  
**Email: wfowler@panam.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Engineering/ Computer Science	Electrical Mechanical Manufacturing Computer Science/ Computing Information Technology	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

UT Pan American's Engineering Building has six computer laboratories with 243 Pentium computers and 32 Sun workstations and a high-bay laboratory area for large manufacturing and mechanical engineering equipment. On the roof is a solar energy laboratory for senior design projects and class laboratory use. The Engineering Building houses three Engineering Departments and the Department of Computer Science. The building also houses the Computing Information Technology Center which has significant processing capacity including a cluster and a NCR WorldMark massively parallel computer system.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTIES</u></b>
Doug Timmer	Ph.D.	Engineering	Statistical Quality Control Robotics, Non-Linear Robotics Control, Fault Detection and Diagnosis
Arturo Fuentes	Ph.D.	Engineering	Structural Dynamics and Simulation, Nanotubes
Edwin LeMaster	Ph.D.	Engineering	Rapid Prototyping
Miguel Gonzalez	Ph.D.	Engineering	Logistics Support for Mass Customization in Manufacturing, Lean Manufacturing
Ala Qubbaj	Ph.D.	Engineering	Combustion Simulation

Kyevwan Lee	Ph.D.	Engineering	Detonator Design
Sanjeev Kumar	Ph.D.	Engineering	Packet Routing/Packet Switching Technologies
Heinrich Foltz	Ph.D.	Engineering	Ultra-Wideband Technologies; Microwave Applications
Junfei Li	Ph.D.	Engineering	Radar Imaging
Karen Lozano	Ph.D.	Engineering	Carbon-Based Nanotube Composites, Mechanisms of Electrical Conductivity in Titanium Carbide Coated Nanotube Reinforced Composites
Javier Macossay-Torres	Ph.D.	Engineering	Polymer Carbon Nanofiber Composites
Richard Fowler	Ph.D.	Computer Science	Cognitive Science, Information Visualization, Interactive Systems
Xusheng Wang	Ph.D.	Computer Science	Computer Graphics, VR, Information Visualization, Real-Time Simulation
Xiaodong Wu	Ph.D.	Computer Science	Computer-Aided Medical Diagnosis & Treatment, Bioinformatics & Data Mining
Ping-Sing Tsai	Ph.D.	Computer Science	Image & Text Compression, Computer Vision, Pattern Recognition
Zhixiang Chen	Ph.D.	Computer Science	Web-Mining, Web Search, Complexity Theory
Arthur Chtcherba	Ph.D.	Computer Science	Symbolic Computation
Peter Ng	Ph.D.	Computer Science	Document & Information Based Management
Wendy Lawrence-Fowler	Ph.D.	Computer Science	Information Retrieval, Dynamic Information Systems
Robert Jones	Ph.D.	Engineering	Material Technology, Failure Analysis
Robert Freeman	Ph.D.	Engineering	Dynamics, BioEngineering
Subhash Bose	Ph.D.	Engineering	Robotics, Stochastic Process Modeling and Control

**PROGRAM 2**

Biology/Chemistry/Mathematics  
Physics & Geology

**SPECIALTY**

**DEGREE LEVEL**

Bachelors  
Masters

## **Laboratories and Other Facilities and Equipment**

The Department of Biology and Chemistry are both housed in the Science Building, which has well equipped lecture halls and numerous laboratories for teaching and research. Equipment available to students include electron microscopes, environmental chambers suitable to a high field nuclear magnetic resonance Spectrometer, computer systems used in remote sensing and Geographic Information Systems (GIS) research, and a computer lab.

The Coastal Studies Laboratory in Isla Blanca Park on South Padre Island supports classes and field trips from the University and other schools. A number of marine-oriented courses are offered at the CSL. The laboratory's public display contains representative species of fauna and flora from the immediate area of the Lower Laguna Madre and South Padre Island.

## **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Luis Materon	Ph.D.	Biology	Food Crop Contamination
Christopher Little	Ph.D.	Biology	Ferulic Acid Content of Sorghum, Fungus Resistance
Kenneth Summy	Ph.D.	Biology	GIS-GPS
Hudson DeYoe	Ph.D.	Biology	Water Pollution, Marine and Aquatic Vegetation, GIS-GPS
Thomas Whelan	Ph.D.	Chemistry	GIS-GPS
Ruben Mazariegos	Ph.D.	Geology	GIS-GPS, Hydrocarbon, Exploration, Salt Tectonics, Structural Geology
Michael Persans	Ph.D.	Biology	Agricultural Biotechnology
Zen Faulkes	Ph.D.	Biology	Behavioral Neuroscience
Anxiu Kuang	Ph.D.	Biology	Microgravity and Seed Development
Hassan Ahmad	Ph.D.	Chemistry	Mechanisms of Anticarcinogenics
Mohammad Hannan	Ph.D.	Physics	Trace Elements in Human Milk

Benglin Chen	Ph.D.	Chemistry	Functional Nanoporous Mixed-Metal-Organic Frameworks
Michael Eastman	Ph.D.	Chemistry	Embedded Sensors
Javier Kypuros	Ph.D.	Mathematics	Virtual Prototyping
Vladimer Varlomov	Ph.D.	Mathematics	Nonlinear Oscillations
Roger Knobel	Ph.D.	Mathematics	Inverse Problems
Christina Villalobos	Ph.D.	Mathematics	Newton Interior Point Trust Regions for Large Scale Nonlinear Programs
So Young Han	Ph.D.	Physics	Quantum Oscillatory Behavior in LowDimensional Metals
Mohammed Bhatti	Ph.D.	Physics	High Precision Atomic Structure Calculations and Quantum
Roberto Gregorius	Ph.D.	Chemistry	Polymer Science, Liquid Crystals, Polymer Engineering

### **PROGRAM 3**

### **SPECIALTY**

### **DEGREE LEVEL**

Business

International Business  
Cultural, Social, and Political  
Implications of Global Business with  
Emphasis on North, Central and South America

Ph.D.

### **Laboratories and Other Facilities and Equipment**

Modern facility with offices, classrooms, word processing laboratories, computer laboratories and seminar rooms.

### **Researchers: Academic Background & Research Specialty(ies)**

#### **NAME**

#### **DEGREE**

#### **DISCIPLINE**

#### **RESEARCH SPECIALTY**

Michael Minor

Ph.D.

Marketing

International  
Marketing

Evelyn Hume	Ph.D.	Accounting/Business Law	International Capital Markets, International Accounting & Reporting Issues
Maria Mora	Ph.D.	Economics	Economic Impact of Language
Angela Hausman	Ph.D.	Marketing	Entrepreneurialship and Marketing
Kai Koong	Ph.D.	Computer Information	Workforce Development and Economic Development
Teofilo Ozuna	Ph.D.	Management	Entrepreneurial and Economic Development Issues
John Sargent	Ph.D.	Management	Human Resource Development in South America and Mexico
Gokee Soydemire	Ph.D.	Finance	Immigration Impact on Economic Development

**PROGRAM 4**

Rehabilitation

**SPECIALTY**

Minority Rehab Services

**DEGREE LEVEL**

Bachelors  
Masters

**Laboratories and Other Facilities and Equipment**

Center with state of the art training and research laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Bruce Reed	Ph.D.	Rehab Services	Addressing Minority Issues in the Delivery of Rehab Services
Chuck Reig	Ph.D.	Rehab Services	Addictions Treatment Models with Pretiral Diversion Arrestees

**PROGRAM 5**

Health and Human Services

**SPECIALTY**

Aging  
Diabetes, Obesity, Nutrition  
Clinical Lab Sciences,  
Pharmacology;  
Communication  
Disorders

**DEGREE LEVEL**

Degrees are Awarded in  
Various Academic Areas

### **Laboratories and Other Facilities and Equipment**

Facility with offices and classrooms. Labs include those for biomedical procedures, nutrition, speech and hearing, and Centers for Aging, Diabetes Research, and Clinical Lab Sciences.

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Elena Bastida	Ph.D.	Sociology	Aging and Health Care, Diabetes
Paul Villas	Ph.D.	Kinesiology	Diabetes and Clinical Indicators of Disease
George Eyambe	Ph.D.	Clinical Lab Sciences	Genomics
Esperanza Briones	Ph.D.	Dietetics	Nutrition, Obesity Diabetes
Gokee Soydemire	Ph.D.	Business Administration	Economics of Disease and Aging
Bahram Faraji	Ph.D.	Dietetics	Zinc Deficiency and Obesity Nutrition
Karen Chandler	Ph.D.	Clinical Lab Sciences	Hypersegmentation and Neural Tube Defects
Nola Radford	Ph.D.	Communications Disorders	Language Development, Detection of Alzheimer's
Patricia Canales	Ph.D.	Pharmacy	Pharmacological Intervention for Depression
Felix Coo	Ph.D.	Physican's Assistant Program	Febrile Syndrome

### **PROGRAM 6**

Medical Technology/  
Clinical Laboratory Sciences

### **SPECIALTY**

### **DEGREE LEVEL**

Bachelors

### **Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
George S. Eyambe	Ph.D.	Clinical Laboratory Sciences	Clinical Science

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** U.S. Department of Defense  
**Funding Level:** \$62,922 **Year:** 2003-04  
**Project Director:** Dr. Ala Quabbaj  
**Title of Project:** Swirl-Cascade Burner Simulation (DoE) and Laser Diagnostic Research

**Agency:** U.S. Department of Defense  
**Funding Level:** \$20,000 **Year:** 2003-04  
**Project Director:** Dr. Karen Lozano  
**Title of Project:** Enhancements of C Axis Properties of a Glass Fiber Reinforced Vinyl Ester Nanotube Composite

**Agency:** AFRL/HEP  
**Funding Level:** Equip Value Not Released **Year:** 2003-07  
**Project Director:** Dr. Edwin LeMaster  
**Title of Project:** Rapid-Prototyping Equipment Transfer Agreement

**PAUL QUINN COLLEGE**  
Waco, TX 76704

*Data from 1996*

**Contact: Dr. Nathan Allen**  
**Vice President for Institutional**  
**Advancement**

**Telephone: (214) 302-3502**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Natural Sciences	Biology Mathematics Chemistry	Bachelors

**Laboratories and Other Facilities and Equipment**

Three well-equipped natural science laboratories. The college is in the process of upgrading its science laboratories which will enable the institution's scientists to expand their experiments.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Terrance Johnson	Ph.D.	Biology	Nitrogen Metabolism in Enteric Bacteria
Leland Sapiro	Ph.D.	Math and Physics	Riemann Geometry and Relativity

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science Department	Programming & Information Management Systems	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer Science Laboratory equipped with a System 34 mini-computer and 60 some microcomputers.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Wen Tsan Chen	M.A.	Computer Science	Data Management Systems

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business Administration	Management/Economics	Bachelors

**Laboratories and Other Facilities and Equipment**

Space and equipment for executing an effective program(s) in this area; automated accounting program. Full scale small business development center on campus. The accounting area is fully computerized providing the faculty with various types of software in teaching their courses.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
David R. J. Johnson	Ph.D.	Business Administration/ Economics	Organizational Behavior and Cognition Attributes

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	Teacher Training	Bachelors

**Laboratories and Other Facilities and Equipment**

A highly trained faculty and an excellent laboratory facility. The college is in the process of developing an ultra-modern Education Center which will be connected with at least three other colleges. This center will be completed prior to the fall semester 1996.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Darlene Abram	Ed.D.	Education	Relationship of Personality to Employment Success

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated.



**RUST COLLEGE**  
**Holly Springs, MS 38635**

**Contact: Mrs. Christine Ratcliff**  
**Director of Grants and Contracts**

**Telephone: (601) 252-8000**  
**Fax: (601) 252-6107**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Management	Bachelors

**Laboratories and Other Facilities and Equipment**

The Business area is equipped with lecture halls, simulation laboratory, computer laboratory, and other accessories necessary for quality education instructions.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Chigbo Ofong	Ph.D.	International Relations	

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Education	Elementary Education	Bachelors

**Laboratories and Other Facilities and Equipment**

The Education area is housed in the McMillan multipurpose Center which is equipped with a reading center, speech center, and space for seminars (NTE) etc.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Marian Talley	Ph.D.	Education Administration Curriculum Instruction	

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mass Communications	TV & Radio	Bachelors

**Laboratories and Other Facilities and Equipment**

The Mass Communications area includes a 1.3 million dollar facility with a 600 seat auditorium recording studio, television studio, radio studio, journalism facilities, etc.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Margaret Delashmit	Ph.D.	English Division Chair for Humanities	
Abedajo Moyo	M.A.	Mass Communications	

<b><u>Program 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Science	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

The Science area, housed in the MacDonald Science Building, is equipped with lecture rooms, classrooms, lecture room, science laboratories, and faculty offices.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Frank Yeh	Ph.D.	Chemistry	Biochemistry, Inorganic Chemistry

**Recent DoD/Other Contract/Grant/Procurement Experiences**

None indicated.



Yahya F. Njai	M.S.	Mathematics	Statistical Analysis, Teaching Mathematics to College Freshman, Strategies for Teaching High School Students
Marilyn A Semtner	M.S.	Biology	Ecological Study on Impact of Man, Plant, or Animal Life, Aquaculture
Bassey Akpan	M.S.	Computer	Applications and Systems Programming, Data Communications

**PROGRAM 2**

Business Administration

**SPECIALTY**

Accounting  
Management  
Marketing

**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

Computer software, hardware, and various equipment are available

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Samson O. Oshunkentan	Ph.D.	Marketing/Management	Management/Marketing; Organizational Behavior; International Business; ; Entrepreneurship
Keathen Wilson	Ph.d.	Management	Management, Money, Banking & Investments
Arinola Adebayo	M.B.A., C.P.A.	Accounting	Management, Accounting, Auditing, Taxes
Hester Jones	ABD	Business Administration	Minority Paritpication in Non-Traditional Studies
David Johnson	ABD	Management Information	Human Computer Interface, Management Information Systems
Vipan Luther	M.B.A., M.E.D.	Marketing	Consumer Behavior in International Markets, International Advertising, Accounting

**PROGRAM 3**

Political Science and Sociology

**SPECIALTY**

Pre-Law  
Political Science

**DEGREE LEVEL**

Bachelors

### **Laboratories and Other Facilities and Equipment**

Adequate library support and diverse internship experience are available.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Salah-Uddin Kahn	Ph.D.	Political	Political Theory, Public Administration, Legal Systems
Frank C. Conteh	Ph.D./Ed.D.	Sociology	Theory, Social Psychology; Complex Organizations; Political Sociology
Joshua Brown	M.F.A.	Art	Art, Zooanthorphism
Ruth Baker	M.S.	Sociology	Environmental Justice, The Black Family
Carlos Morrisson	Ph.D.	Mass Communication	Speech, Intercultural Communications Rhetoric
Frances O'Donohue	M.Ed.	French and Spanish	
Alvin Smith	Ph.D.	English	Cross Cultural Communications, Student Identity Negotiation

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Extended and Continuing Education	Organizational Management	Bachelors

### **Laboratories and Other Facilities and Equipment**

Library support and Satellite Link to participate in various workshops, seminars, etc.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James Williams	Ph.D.	Sociology	Disengagement Theory, and Sports

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Teacher Education	Elementary, Middle and Secondary	Bachelors

### **Laboratories and Other Facilities and Equipment**

Curriculum Laboratory for Teacher Education, Computer and Science Laboratories, Media Center.

### **Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Charlene Freeman-Coker	Ed.D.	Education	Gerontology, Women's Issues
Adrienne Robinson	Ph.D.	Education Research	Culture, Race and Gender Issues, Factors Influencing Minority and Women's Achievements, Higher Education Administration Organization
Akram Siddiqui	Ed.D.	Education Administration	Transformation in Public Education, Fundamental Skills and Critical Concepts

### **Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Defense Information System Agency  
**Funding Level:** \$67,644 **Year:** 1995  
**HBCU/MI Project Director:** Dr. Frank Hendrick  
**Title of Project:** Defense Information Systems Agency Partnership with Forts Eustis and Monroe for Computers, Monitors, and Printers to upgrade Institution's Laboratories

**SAN DIEGO STATE UNIVERSITY**  
**San Diego, CA 92182**

**Contact: Eugene Stein**  
**Director, Sponsored Research**  
**Development SDSU Foundation**

**Telephone: (619) 594-4424**  
**Fax: (619) 582-9164**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

The following is only a sample of the extensive research conducted at SDSU. Faculty received over \$130 million in grants and contracts in fiscal year 2003.

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		Bachelors Masters Doctorate**

\*\*The doctoral programs are joint degrees. That is, SDSU awards the Ph.D. in conjunction with a campus of the University of California or other doctoral university.

**Laboratories and Other Facilities and Equipment**

Fully equipped laboratories for heart research, biocontainment labs, electron microscopy, vivarium, breeding colonies for research animals, etc. In addition, SDSU has a Heart Institute, a Molecular Biology Institute, and will soon build a state-of-the-art biosciences building.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Christopher Glembotski	Ph.D.	Cell Biology	Heart Function
Sanford Bernstein	Ph.D.	Molecular Biology	Muscular Dystrophy, Genetics
Roger Davis	Ph.D.	Molecular Biology	Heart, Atherosclerosis, Gene Transfer
Walter Oechel	Ph.D.	Ecology/Botany	Plant Ecosystems, Arctic Tundra
Mark Sussman	Ph.D.	Cell Biology	Cardiomyopathy
William Stumph	Ph.D.	Biochemistry	Lipid Metabolism

**PROGRAM 2**

Health Promotion

**SPECIALTY****DEGREE LEVEL**Masters  
Doctorate\*\***Laboratories and Other Facilities and Equipment**

Modern surveying facilities, computer laboratories, community contacts, nicotine-detecting equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Donna Thal	Ph.D.	Comm. Disorders	Language Disorders/Children
Beverly Wulfeck	Ph.D.	Comm. Disorders	Language Impairment/Kids
Judy Reilly	Ph.D.	Psychology	Language/Behavior
Ralph Mueller	Ph.D.	Psychology	Language/Autism

**Recent DoD/Other Contract/Grant/Procurement Experience**

San Diego State University has many other strengths, including studies of smell and taste in the elderly, engineering, geology, and remote sensing--all with sophisticated laboratories. SDSU received grants and contacts from approximately 400 government, private, and corporate agencies in fiscal year 2003. A significant dollar amount (over \$5 million) came from the Department of Defense, particularly in the Navy.



**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Robyn Snyder	Ph.D.	Computer Science	E-Commerce
Hae Choi	DBA	MIS	Information Systems, Infrastructure
Chung Shim	DBA	MIS	Decision Support Systems
Asha George	M.S.	MIS	Database Analysis
Reginald Leseane	MBA	MIS	

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Marine Sciences	Algal and Fishery Research	Bachelors, Masters

**Laboratories and Other Facilities and Equipment**

S

New marine science building with wet and dry labs and two research vessels for field research in salt water marshes.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Matthew Gilligan	Ph.D.	Marine Sciences	Ichthyology
Carla Curran	Ph.D.	Marine Sciences	Fish Ecology
Joseph Richardson	Ph.D.	Marine Sciences	Aquatic Ecology
Carol Pride	Ph.D.	Marine Sciences	Paleo-Oceanography
Dionne Hoskins	Ph.D.	Marine Sciences	Benthic Ecology

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Environmental Science	Biogeochemistry	Bachelors

**Laboratories and Other Facilities and Equipment**

Well equipped Environmental Science Lab with state of the art Perkins Elmer ICP-OES equipment.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Kenneth Sajwan	Ph.D.	Biogeochemistry	Biogeochemistry

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** NSF/CIRE, Several Sea Grants

**SHAW UNIVERSITY**  
**Raleigh, NC 27601**

**Contact: Daniel L. Howard, Ph.D.**  
**Director, Office of Research and**  
**Sponsored Programs**

**Telephone: (919) 546-8256**  
**Fax: (919) 546-8755**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology	Molecular Biology	Bachelors

**Laboratories and Other Facilities and Equipment**

Instructional facilities in the department include the newly renovated Roberts Science Hall. The Science Hall facility is comprised of classroom lecture/laboratories, preparatory and research laboratories, a general-purpose computer laboratory, an instructional computer laboratory, and an instructional technology classroom. The instructional technology classroom is equipped for video teleconferencing, multimedia presentation, web-based technology, and other interactive learning activities.

Three Laboratories equipped to accommodate High Pressure Liquid Chromatography (HPLC), Gas Chromatography, Isoelectric Focusing, Argarose Electrophoresis with Illuminator and Camera, Western Blots, Fluorescence Microscopy with Computerized and Video Imaging, DNA Sequencing, Computerized ELISA Analysis, Cell Perforation for Bacterial Transformation, Plant Tissue Culture, and Ultraviolet Irradiation and Nuclear Magnetic Resonance (NMR) Spectroscopy.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Eugene N. Baskerville, Jr.	Ph.D.	Microbiology & Immunology	Surface Glycoprotein in Trypanosome Brucei Thodesiense
Kimberly D. Whitehead	Ph.D.	Genetics	Metal Mutagenesis: Genetic Expression in Differentiating Bacteria

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Physics/Mathematics	Physics/Mathematics	Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH</u>
K.P. Satagopan	Ph.D.	Mathematics	Module Theory Theory of Numbers
Do Yeong Shin	M.S.	Mathematics	PDE, Numerical Analysis

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Business & Public Administration	Accounting Business Management Computer Information Systems Public Administration	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer Laboratory consisting of 12 IBM PS/2 Model 30's, 20 MB Hard Drives, 6 Printers, and 8 Apple II computers.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Mma Arua Kalu	Ph.D.	Public Administration	Cutback Management in State, Local Governments; Inter- Governmental Cooperation in Public Service Delivery
Levi A. Beckwith	M.B.A.	Accounting Business Management	
Michael A. Seda	Ph.D.	Accounting	Accounting Education Entrepreneurship
Kenneth Mitchell	D.Mgt.	Management	
Cassandra F. Brown	M.P.A.	Public	

		Administration	
Johnny Eluka	Ph.D.	Business Management	Exploitation of Benefits in Diversity Avenues to Increase Human Productivity
Lemuel B. Harrison	M.B.A.	Business Management	Entrepreneurship Real Estate Construction

**PROGRAM 4**

**SPECIALTY**

**DEGREE LEVEL**

Statistics

Evaluation Research

Non Degree

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**PROGRAM 5**

**SPECIALTY**

**DEGREE LEVEL**

Social Sciences

Political Science  
International Relations

Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
J.L. Richardson	Ph.D.	Developmental	Sociology
Lucky Imade	Ph.D.	Political Transition & Economic Reform	Strengthening Civil Society to Consolidate Democracy
Marcellina Offoha	Ph.D.	Sociology of Education, Development & Migration	Emigration and Remigration of Highly Skilled Professionals from Less Technologically Advanced Countries to Technologically Advanced Countries, Especially the U.S., and the Issue of "Brain Drain."

Shirley Kearney	M.H.A.	Health Business/Psychology & Sociology	Study Health Business That Involves African American Women Regarding (HIV) and Ovarian Cancer. Study of a Diverse Population Group, Behavioral Differences Concerning Domestic Violence.
-----------------	--------	--	---

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Speech & Hearing	Speech Language Hearing	Bachelors

**Laboratories and Other Facilities and Equipment**

Speech Pathology and Audiology facility includes a well-equipped diagnostic audiometric suite, and diagnostic/therapy materials room, and a clinic reception area; All therapy/diagnostic facilities are equipped with visual-aural observation capability; Newly built Acoustic Laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
James T. McCallam	Ed.D.	Audiology	Late Deafened Adults

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Teacher Education	Early Childhood Intermediate Secondary	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer Laboratory for student and faculty use; Curriculum Resource Center contains print and audio-visual materials.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Joan D. Barrax	Ph.D.	Higher & Adult Education	Strategic Planning; Organizational

			Behavior in University Administration/Outcome Assessment
Brenda Lovely	Ph.D.	Special Education & Administration	Training Program in Verbal Comprehension Skills for Black Gifted Children
Ronald D. Wahlen	Ed.M.	Early Childhood Education	Effects of Technology on Young Children's Development, Help Improve the Educational Preparation of Teachers, and Public Policy
Laura F. Boswell	Ed.D.	Special Education	Visual Strategies with Young Children with Autism
Joyce Richardson	Ed.S.	Elementary Education Public School Administration	Kindergarten Through High School Administration
Robert Hastings	D.A.	English	Educational/Training Programs Assessment & Consulting

**PROGRAM 8**

**SPECIALTY**

**DEGREE LEVEL**

Radio-TV Broadcast

Radio Production

Bachelors

**Laboratories and Other Facilities and Equipment**

Radio Station, WSHA-FM (50,000 Watts); Radio Production Laboratories equipped with quality/ready components. TV Studio has satellite down link accessories for video-conferencing relays.

**Researchers: Academic Background & Research Specialty(ies)**

**NAME**

**DEGREE**

**DISCIPLINE**

**RESEARCH  
SPECIALTY**

Emeka L. E.  
Emekauwa

Ph.D.

Instructional Media  
Technology &  
Communications Art

Media/New  
Communications  
Technologies for  
Traditional/Non-Traditional  
Long Distance Education;  
Media Production

<u>PROGRAM 9</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Journalism	TV Production New Writing	Bachelors

**Laboratories and Other Facilities and Equipment**

Three-camera video studio with Grass Valley Model 110 video switcher. Capable of recording in S-VHS format, and doing "cut-only" editing.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Randall Vogt	Ph.D.	Mass Communications	Broadcast History

<u>PROGRAM 10</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Print Shop	Design Graphics Lay-Out Printing	Non Degree

**Laboratories and Other Facilities and Equipment**

Print Shop equipped to provide full range of printing service.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<u>PROGRAM 11</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer Science		Bachelors

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Harold Ramcharan	M.S.	Computer Science	Optical Networks Web Programming with HTML, Java, Java Script, JSP, Servlets, J2EE, EJB

Wei Jin	Ph.D.	Computer Science	Systems, Distributed Systems, Memory Hierarchy Performance Evaluation Algorithm Design
---------	-------	------------------	--

<b><u>PROGRAM 12</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
English		Bachelors

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Charles Tita	Ph.D.	English	Contemporary Critical Studies, with Particular Emphasis on the Relation of Fiction and History, The Confluence of the African Diasporic Experience and Modernity; Cultural studies (Literature, politics and Popular Culture in a Post-Cold War World).

<b><u>PROGRAM 13</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Divinity School	Theological Education; Church and Community Relations; African American Church Leadership	Masters

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Moses V. Goldmon	Ed.D.	Health Education	Adolescent Health and Development; Personal Professional, Organizational (particularly) the Black Church) and Community Development as a Public Health Practice; Strategic Planning, Evaluation Research and Program Evaluation: University and

Church/Community  
Engagement as a Strategy for  
Eliminating Disparities.

**PROGRAM 14**

**SPECIALTY**

**DEGREE LEVEL**

Health Services Research/  
Racial Disparity Research

African American Health

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Daniel L. Howard	Ph.D.	Public Policy	Policy Analysis and Implementation; Program Development and Evaluation; Health Organizations and Public Health; Policies Pertaining to Poverty, Drugs, and Various Health-Related Issues that Disproportionately Affect African Americans, Children, and the Elderly; Social Epidemiology; Medical Sociology. Health Policy, Program Development/Evaluation, and African Americans; Epidemiological Patterns Among African Americans; Health Services Research and African Americans, the Elderly, and Children.

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Shaw University and University of North Carolina at Chapel Hill, National Institutes of Health, and National Center for Minority Health and Health Disparities Project EXPORT

**Funding Level:** \$6,011,373.00      **Year:** 9/30/02-9/29/07

**Project Director:** Daniel Howard and Paul Godley

**Title of Project:** UNC/Shaw Partnership for Eliminating Racial Health Disparities

**Agency:** Agency for Healthcare Research and Quality, Minority Research

**Funding Level:** \$1,201,567.00      **Year:** 9/30/02-9/29/05

**Project Director:** Daniel Howard

**Title of Project:** Shaw University M-RISP Minority Elderly Research Center

**Agency:** NIH, National Center for Minority health and Health Disparities Project EXPORT

**Funding Level:** \$1,033,591.00 **Year:** 9/30/02-9/29/05

**Project Director:** Daniel Howard

**Title of Project:** Shaw University Project Export R24 (SUPER) Program

**Agency:** Research Triangle Institute and University of North Carolina at Chapel Hill

**Funding Level:** **Year:** 6/17/02-6/16/07

**Project Director:** Daniel Howard

**Title of Project:** Evidence-Based Practice Center II

**Agency:** Emory University Center for Health in Aging, Morehouse Medical School, and Shaw University

**Funding Level:** \$565,463.00 **Year:** 10/1/01-9/30/04

**Project Director:** Daniel Howard

**Title of Project:** Development Center for Evaluation and Research in Patient Safety—Long Term Care

**Agency:** University of North Carolina at Chapel Hill and Shaw University.

**Funding Level:** \$132,526.00 **Year:** 10/1/00-5/31/03

**Project Director:** Daniel Howard and Thomas R. Konrad

**Title of Project:** Overcoming Racial Health Disparities

**Agency:** University of Michigan, NIH, National Institute on Drug Abuse

**Funding Level:** \$3,314,443.00 **Year:** 5/1/03-4/30/07

**Project Director:** Daniel Howard

**Title of Project:** Outpatient Drug Abuse Treatment System Survey Study

**Agency:** Howard Hughes Medical Institute/UNC Chapel Hill-Shaw Partnership

**Funding Level:** \$15,700.00 **Year:** 5/01/2004-9/30/2004

**Project Director:** E.N. Baskerville, Jr.

**Title of Project:** Teacher Workshop & Undergraduate Assistantship-Minority Advancement in The Biomolecular Sciences

**Agency:** Howard Hughes Medical Institute/UNC Chapel Hill-Shaw Partnership

**Funding Level:** \$25,480.00 **Year:** 7/01/2003-5/31/2004

**Project Director:** E.N. Baskerville, Jr.

**Title of Project:** Laboratory Development & Undergraduate Assistantships-Minority Advancement in the Biomolecular Sciences

**Agency:** NIH/NIGMS/UNC Chapel Hill-Shaw Partnership  
**Funding Level:** \$365,808.00.00      **Year:** 9/01/2002-8/31/2007  
**Project Director:** E.N. Baskerville, Jr.  
**Title of Project:** Diversity in Biomedical Careers via a BioScience Sharium

**Agency:** US Department of Education  
**Funding Level:** \$350,483.00      **Year:** 10/01/2003-09/30/06  
**Project Director:** Kenneth Mitchell  
**Title of Project:** The Entrepreneurial Village Project

**Agency:** U.S. Department of Education  
**Funding Level:** \$1,100,000.00      **Year:** 09/01/2003-08/30/2008  
**Project Director:** Kenneth Mitchell  
**Title of Project:** Shaw University Upward Bound Program

**Agency:** University of Chicago and Shaw University, NIH, National Institute of Drug Abuse  
**Funding Level:** \$235,545.00      **Year:** 09/01/98-05/24/03  
**Project Director:** Daniel Howard  
**Title of Project:** Culturally Responsive Treatment of African American Substance Abusers

**Agency:** University of North Carolina at Chapel Hill, NIH, National Institute on Aging  
**Funding Level:** \$3,052,754.00      **Year:** 09/30/97-08/31/03  
**Project Director:** Daniel Howard  
**Title of Project:** Advancing Minority Aging Research Efforts

**SI TANKA UNIVERSITY**  
**Eagle Butte, SD 57625**

**Contact: Dr. Ella (Ellie) Brooks**  
**Vice President Academic Affairs**

**Telephone: (605) 353-2006**  
**Fax: (605) 353-2056**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Nursing		Bachelors

**Laboratories and Other Facilities and Equipment**

This program has a separate laboratory that is equipped with models and media to simulate clinical practice.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Dr. Adele Jacobson	Ed.D.	Education	

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Management	Business, Equine, Agriculture, Marketing/Sports Promo	Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mr. LynnMoller	MS/CPA	Management/Finance	

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Criminal Justice		Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Teacher Education	Elementary, History,	Bachelors
Early Childhood	Physical Education, Science & Biology, and Math	Associates

**Laboratories and Other Facilities and Equipment**

Teacher Ed and Early Childhood have medial and resource rooms to augment the respective areas. This department is currently under budget to expand the curricular resources.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jan Weber	M.A.	Science Biology	
Tanya Ward	M.A.	Education	

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** Department of Education  
**Funding Level:** \$198,768      **Year:** 2003  
**Project Director:** Dr. Ella Brooks  
**Title of Project:** Minority Science Improvement



**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Mabel Murray	Ed.D.	Curriculum Development & Instruction	Reading

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Administration	Administration & Management Information Systems Administration Business Administration Hospitality & Tourism Insurance & Risk Management Public Administration Health Care Administration Banking & International Finance	Bachelors

**Laboratories and Other Facilities and Equipment**

Classrooms, breakout rooms, and computer laboratories

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Felix Kwabenah	J.D.	Law	Criminal Justice Business Administration

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Applied Social Sciences: Human Services	History & Philosophy of Human Services Programs Urban Community Organization Human Services Delivery in Urban Settings Intervention Strategies in Human Services Delivery Advanced Urban Group Dynamics Managing Urban Human Services Program Development and Implementation of Urban Human Services Programs Seminar in Urban Policy Issues	Masters

## **Laboratories and Other Facilities and Equipment**

Classrooms, breakout rooms, computer laboratories

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Applied Social Sciences	Impact of Intergovernmental Relations on Urban Programs	Masters
Public Administration	Economic Development in the Urban Community Administration of Public & Nonprofit Organizations Writing Grant Proposals Administration of Grant Programs Seminar in Urban Policy Project Management Principles of Government Budgeting & Accounting	

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Applied Social Sciences:	The Psychology of Reading The Acquisition of Language The Effect of Socioeconomic & Other Factors on Reading Reading Research: Theory & Practice Designing Disciplinary Strategies for an Urban Classroom Applying Best Practices for Effective Reading Instruction Management of a Reading Program	Masters

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Applied Social Sciences	Processes and Acquisition of Reading	Masters - Teacher
Urban Education – Certification	Reading Instruction and Reading Materials for Teaching Reading Teaching Reading in the Content Area I Teaching Reading in the Content Area II	Certification

<b><u>OTHER PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Professional Studies	Phlebotomy Licensed Practical Nursing Certified Nurse Assistant Paralegal Para-Transit Training Preventive Health & Health Disparities NOAA Atmospheric Science Program Biotechnology Emergency Preparedness Training Forensic Science Courses	Certificate

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

**SOUTHWEST TEXAS JUNIOR COLLEGE  
Uvaldes, TX**

**Contact: Gloria A. Rivera  
Dean of Instructional Services**

**Telephone: (512) 591-7286**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

**PROGRAM 1**

**SPECIALTY**

**DEGREE LEVEL**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experiences**

None indicated.

**SPELMAN COLLEGE**  
**Atlanta, GA 30314-4399**

<b>Contact: Mrs. Olivia Scriven</b>	<b>Telephone: (404) 270-5887</b>
<b>Director of Sponsored Programs</b>	<b>Fax: (404) 270-5891</b>
	<b>Email: oscriven@spelman.edu</b>

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Natural Science	Pre-Medical	Bachelors

**Laboratories and Other Facilities and Equipment**

Science Laboratory on campus includes computer instructional software programs and access to labs within the consortium.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Godwin Ana Naba	Ph.D.	Biology	
Subhash Bhatia	Ph.D.	Chemistry	
Nripendra K. Bose	Ph.D.	Chemistry	
Peter Cahn	Ph.D.	Chemistry	
Cornelia Gillyard	M.S., D.A.	Chemistry	

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science	Math Applications Information Systems	Bachelors

**Laboratories and Other Facilities and Equipment**

Computer Science Laboratory and Computer-Designed Software for VAX-Based System and an Electronic Circuit Laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Sylvia T. Bozeman	Ph.D.	Mathematics	Recognition, Developments of 3-D Images from Range Data
Benjamin Martin	Ph.D.	Mathematics	Recognition, Development of 3-D Images from Range Data
Etta Z. Falconer	Ph.D.	Mathematics	Women in Science and Engineering

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Humanities	English/Communications	Bachelors

**Laboratories and Other Facilities and Equipment**

Writing Laboratory, Women's Research and Resource Center, Language Laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Beverly Guy Sheftall	Ph.D.	English	Women's Studies
Christine W. Sizemore	Ph.D.	English	Women in Literature
PushPa Parekh	Ph.D.	English	Women in Non-Western Literature
Alma Billingsley-Brown	Ph.D.	English	Southern Literature

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Social Science	Political Science	Bachelors

**Laboratories and Other Facilities and Equipment**

International Student's Center, Living Learning Center.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jeanne T. Meadows	Ph.D.	Political Science	

Lois B. Moreland	Ph.D.	Political Science and International Affairs
Marilyn A. Davis	Ph.D.	Political Science and Urban Government
Marilyn A. Davis	Ph.D.	Political Science and Urban Government
Margaret C. Lee	Ph.D.	Political Science
Desiree S. Pdescleaux	Ph.D.	Public Administration and Public Policy

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated.

**TALLADEGA COLLEGE**  
**Talladega, AL 35160**

*Data from 1996*

**Contact: Dr. Roberta Jones Booker**  
**Director of Alumni Affairs**

**Telephone: (205) 761-6203**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b>PROGRAM 1</b>	<b>SPECIALTY</b>	<b>DEGREE LEVEL</b>
Business Administration	Business Finance	Bachelor

**Laboratories and Other Facilities and Equipment**

An Investment Club has been organized in relation to a Business and Finance Specialty. An Alumnus has provided \$10,000 in stocks for students to have practical experience in the market. Micro computing has been introduced in this activity.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Emanuel M. Chijoke	M.B.A.	Business and Economics	Study of the Perceptions of Academic Business Management Professionals & Industrial Business Managers Relative to Undergraduate Business Management Programs in Alabama

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computational Science	Computer Science	Bachelors

**Laboratories and Other Facilities and Equipment**

The Computer Science major has been enhanced with the availability of several laboratories. Micro and terminal labs are located in the Computer Center and stand alone lab with Macintosh equipment in the regular classroom building. This program has further access to super computers through a consortium arrangement.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Preston Rowe	Ph.D.	Psychology/Computer Science	Numerical Analysis and Computer Simulation of Pollutant Definition in Upper Respiratory Tract Computer Science

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Humanistic Studies	History Pre-Law	Bachelors

**Laboratories and Other Facilities and Equipment**

A dual degree program with the Law School at St. John's University has been in existence for three years..

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Bernard Bray	Ph.D.	Political Science	Examination of the Death Penalty; Special Attention to Racial Dimensions of the Death Penalty
John Burrows	Ph.D.	Southern/Black History	The Necessity of Myth

**Recent DoD/Other Contract/Grant/Procurement Experience**

None Indicated

**TEXAS A&M UNIVERSITY – CORPUS CHRISTI**  
**Corpus Christi, TX 78412**

**Contact: Dr. Harvey Knull**  
**Dean of Graduate Studies/A.V.P.**  
**Research Office of Sponsored Programs**

**Telephone: (361) 825-2177**  
**Fax: (361) 825-2755**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Geographical Information Systems	Surveying	Bachelors/Masters

**Laboratories and Other Facilities and Equipment**

Texas Coastal Ocean Observation Network (40 data collection stations to measure water levels). Hardware/Software to collect data via satellite to a “real-time” on-line database system DNR Real Time Navigation System.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Gary Jeffress	Ph.D.	Engineering	Surveying Science & GIS
Stacy Lyle	Ph.D.	Geography	GIS/GPS (Global Positioning Satellite)

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Computer Science		Bachelors Masters

**Laboratories and Other Facilities and Equipment**

NASA Laboratory: Finding Near Optimal Schedules, NSF Laboratory: Development of a Cluster System, Numerous “In-House” computer laboratories.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Carl Steidley	Ph.D.	Computer Science	Applied Systems Technology
Steve Dannelly	Ph.D.	Computer Science	Applied Systems Technology
John Fernandez	Ph.D.	Mechanical Engineering	Computer Software Security Information Assurance
Michelle Moore	Ph.D.	Computer Science	Parallel Computing

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Nursing	Distance Education Learning	Bachelors Masters Ph.D. (Pending)

**Laboratories and Other Facilities and Equipment**

Nursing Resource Lab, Learning Anytime, Anywhere Partnerships.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Claudia Johnston	Ph.D.	Nursing	Nursing Education
Mary Jane Hamilton	Ph.D.	Nursing	Nursing Education
Judy Sutherland	Ph.D.	Nursing	Nursing Education

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Marine Science	Coastal, Marine, & Gulf of Mexico Studies	Bachelors Masters

**Laboratories and Other Facilities and Equipment**

Center for Coastal Studies , Conrad Blucher Institute, Center for Bioacoustics

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Wes Tunnell	Ph.D.	Biology	Coastal Studies
Quenton Dokken	Ph.D.	Wildlife & Fisheries Science	Marine Science
Elizabeth Smith	Ph.D.	Wildlife & Fisheries Science	Habitats
Joanna Mott	Ph.D.	Biology/Microbiology	Bacteria in Various Habitats

<u>PROGRAM 5</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Social Sciences		Bachelor Masters

**Laboratories and Other Facilities and Equipment**

Social Sciences Research Center

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Philip Rhoades	Ph.D.	Criminal Justice	Demographics
Daniel Jorgensen	Ph.D.	Public Administration	Public Opinion Surveying

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** DoD  
**Funding Level:** \$212,915      **Year:** 2003-2004  
**Project Director:** Ray Bachnak  
**Title of Project:** Digital Systems Laboratory to Enhance Teaching & Research

**Agency:** Army Corp of Engineers  
**Funding Level:** \$214,478      **Year:** 2003  
**Project Director:** James Bonner  
**Title of Project:** USACE Monitoring Project

**TEXAS A&M UNIVERSITY-KINGSVILLE**  
**Kingsville, TX 78363**

**Contact: Sandra Rexroat**  
**Director**

**Telephone: (512) 594-4455**  
**Fax: (512) 593-3409**  
**Email: [osn@tamuk.edu](mailto:osn@tamuk.edu)**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Environmental Engineering	Modeling	Ph.D.

**Laboratories and Other Facilities and Equipment**

Gas chromatograph/mass spectrometer  
GC/FID & PID  
XRF  
Ion Chromatograph

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Kuruvilla	Ph.D.	Chemical Engineering	Air Pollution
Kim Jones	Ph.D.	Environmental Engineering	Solid & Hazardous Waste
Ni-Bin Chang	Ph.D.	Environmental Systems	Systems Analysis
Venki Uddameri	Ph.D.	Environmental Engineering	Contaminant Hydrogeology
Alvaro Martinez	Ph.D.	Environmental Engineering	Emissions Control
Lee Clapp	Ph.D.	Civil & Environmental Eng.	Bioremediation

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Chemistry	Process	Masters

### **Laboratories and Other Facilities and Equipment**

Core Mass Spectrometry Center  
Scanning Electron Microscopy Lab (with Biology Department)

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Apu Bhattacharya	Ph.D.	Chemistry	Process and "Green" Chemistry
Maribel Gonzalez-Garcia	Ph.D.	Biochemistry	Protein Characterization

<b><u>PROGRAM 3</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Wildlife Science		Ph.D.

### **Laboratories and Other Facilities and Equipment**

Caesar Kleberg Wildlife Research Institute  
University Farm  
Necropsy Laboratory

### **Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Bart Ballard	Ph.D.	Wildlife Science	Waterfowl & Wetland Ecology & Management
Leonard Brennan	Ph.D.		Quail Ecology & Management
Fred Bryant	Ph.D.	Range Science	Ungulate Population Ecology
Alan Fedynich	Ph.D.	Wildlife Science	Avian Diseases & Parasitology
Timothy Fulbright	Ph.D.	Range Ecology	Habitat & Rangeland Ecology
Scott Henke	Ph.D.	Wildlife Science	Wildlife Ecology & Diseases
Fidel Hernandez	Ph.D.	Wildlife Science	Northern Bobwhite Ecology
David Hewitt	Ph.D.	Wildlife Biology	Wildlife Nutrition & Ecology
William Kuvlesky	Ph.D.	Wildlife Biology	Nongame Birds & Ecosystems
Alfonso Ortega-Santos	Ph.D.	Agronomy	Rangeland Economy



**TEXAS COLLEGE**  
Tyler, Texas

**Contact: Bridget R. Moore**

**Telephone: (903) 593-8311**

**Fax: (903) 526-4425**

**Email: bmoore@texascollege.edu**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

**PROGRAM 1**

**SPECIALTY**

**DEGREE LEVEL**

Business Administration

Organizational Management

Bachelor of Science

**Laboratories and Other Facilities and Equipment**

None indicated.

**PROGRAM 2**

**SPECIALTY**

**DEGREE LEVEL**

Biology

Bachelor of Science

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experiences**

None indicated.

**THE NATIONAL HISPANIC UNIVERSITY**  
**San Jose, CA 95127**

**Contact: Dr. Monte E. Perez**  
**Provost/Vice President**

**Telephone: (408) 273-2764**  
**Fax: (408) 254-1369**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science	Computer Information Systems	Bachelor

**Laboratories and Other Facilities and Equipment**

PC computer Lab and Advanced Networking computer lab.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Thomas Renteria	M.S.	Telecommunications	
Julio Garcia	Ph.D.	Industrial and Technical Engineering	

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business Administration		Associates Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
George Guim	Ed.D	Education/Economics	
Christopher S. Rodgers	M.B.A.	Business/Finance	
Judy Clemons	M.B.A.	Business/Marketing	

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Liberal Studies	Child Development Cross-Cultural Studies	Associates Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Michael Mooney	M.A.	English	
Adriana Ayala	M.A.	History	
Michael Jordan	M.A.	Philosophy	
Carlos Navarro	Ph.D.	Government Political Science	
William Cruz	M.E.	Biomedical	
Cecilia Serrano-Hidalgo	M.S.	Biological Sciences	
Wendy Hacke	M.S.	Teaching/Special Education	

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Teacher Education	K-8	Credential

**Laboratories and Other Facilities and Equipment**

Macintosh Computer Lab.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Neva Hofemann	M.A.	Curriculum & Instruction History	
Roger Rosenberg	Ph.D.	History	
Shawn Vecellio	Ph.D.	Social Foundations of Ed.	

Kathleen Hess	Ed.D.	Organization & Leadership Ed.
Valerie Suarez	M.A.	Instructional Technology

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** NASA (MASTAP)  
**Funding Level:** \$600,000.00      **Year:** 2002  
**Project Director:** Neva Hofemann  
**Title of Project:** The Future MSAT Teacher Center of Excellence for  
Education Programs

**Agency:** NASA (PACE)  
**Funding Level:** \$300,000.00      **Year:** 2002  
**Project Director:** Marco Antonio Cruz  
**Title of Project:** Project PACE/MSAT

UNIVERSITY OF GUAM  
Mangilao, Guam 96923

*Data from 1996*

Contact: Dr. Mary L. Spencer  
Liaison Officer

Telephone: (671) 734-0140  
Fax: (671) 734-3118

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<u>PROGRAM 1</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Biology		Bachelors

**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Juan Fernandez	Ph.D.	Biology	

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Nursing		Bachelors

**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Maureen Fochtman	Ph.D.	Nursing	

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Psychology		Bachelors

**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Michael Wylie	B.A.	Psychology	
Harley Manner	B.A.	Psychology	
<b><u>PROGRAM 4</u></b>		<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business		Accounting Management Public Administration	Bachelors

**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
John Keck		Business	
<b><u>PROGRAM 5</u></b>		<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Elementary/Secondary			Bachelors

**Laboratories and Other Facilities and Equipment**

None Indicated.

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Marine Biology		Masters

**Laboratories and Other Facilities and Equipment**

Marine biology laboratory.

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Verlie Paul	Ph.D.	Marine Laboratory	
<b><u>PROGRAM 7</u></b>		<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
<u>Education</u>		<u>Reading</u>	<u>Masters</u>

**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None Indicated.

**Recent DoD/Other Contracts/Grant/Procurement Experiences**

None Indicated



Robert Neher	Ph.D.	Chemo-Systematic Botany Aquaculture	Efficient Protein
Stacey Novak	Ph.D.	Microbiology	Effects of Plant Hormones on Apoptosis in Cultured Mammalian Cells

**PROGRAM 2**

Chemistry

**SPECIALTY**

Environmental and  
Electrochemistry  
General

**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

Broad range of instrumentation including: GC, HPLC, GC-MS, FTIR, Near IR, UV-vis. Fluorescence spectrophotometry. AAS, Scanning Electron Microscopy-Energy Dispersive X-ray, Broad range of research grade reflectance and transmission light microscopes. STM, NMR, greenhouse animal care facilities and other resources some of which are shared with other departments.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Iraj Parchamazad	Ph.D.	Theoretical Chemistry	Hydrogen Chemistry, Solar Electron Transfer Chemistry, Natural Products Chemistry
Melvin Miles	Ph.D.	Physical Chemistry	Hydrogen Chemistry, Electron Transfer Research Battery Development
Namphol Sinkaset	Ph.D.	Inorganic/Electro Chem	Electron Transfer

**PROGRAM 3**

Physics

**SPECIALTY**

General

**DEGREE LEVEL**

Bachelors

**Laboratories and Other Facilities and Equipment**

Broad range of instrumentation including: GC, HPLC, GC-MS, FTIR, Near IR, UV-vis,

Fluorescence spectrophotometry, AAS, Scanning Electron Microscopy-Energy Dispersive X-ray, Broad range of research grade reflectance and transmission light microscopes, STM, NMR, greenhouse animal care facilities and other resources some of which are shared with other departments.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
David Chappel	Ph.D.	Astronomy	Computer Modeling
Sarah Johnson	Ph.D.	Particle Physics	Quarks/Particle Physics

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Mathematics		Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Michael Frantz	Ph.D.	Mathematics	Mathematical Modeling
Xiaoyan Liu	Ph.D.	Mathematics	Spine Functions
Rick Simon	D.A.	Mathematics	

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.

**UNIVERSITY OF NEW MEXICO**  
**Albuquerque, NM 87131**

**Contact: Denise A. Wallen, Ph.D.**  
**Special Assistant to the Vice Provost for**  
**Research**

**Telephone: (505) 277-2256**  
**Fax: (505) 277-5567**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
COBRE Center for Evolutionary and Theoretical Immunology	Comparative Immunology	Ph.D.

**Laboratories and Other Facilities and Equipment**

Molecular core facility, controlled environment facility, 2 research labs, 2 computer labs

**Researchers: Academic Background & Research Specialty (ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Eric S. Loker	Ph.D.	Immunobiology	Comparative Immunobiology of Schistosomes and Other Digenetic Trematodes; Host-Parasite Relationships
Robert D. Miller	Ph.D.	Immunobiology	Genetic Organization and Mechanisms Shaping Antibody Repertoires in Marsupials and Monot Remes
Stephanie Forrest	Ph.D.	Computer Science	Immune System Modeling, Computer Immune Systems, Ecological Modeling with Echo and Foundations of Genetic Algorithms
Alan Perelson	Ph.D.	Theoretical Biology	Theoretical Biology; Theoretical Immunology; Viral Dynamics of HIV, HCV, and HBV
Si-Ming Zhang	Ph.D.	Immunobiology	Cloning and Characterization of FREP Genes and Their Alternatively Spliced

Michelle Baker	Ph.D.	Immunobiology	Forms; Patterns and Mechanisms of FREP Gene Diversity; Genomic Organization of the FREP Gene Family, and; Biological Functions of FREPs <i>in vivo and in vitro</i>
Terran Lane	Ph.D.	Computer Science	The Maintenance of Fetal Maternal Tolerance in Marsupials
William Hlavacek	Ph.D.	Theoretical Biology	Behavioral Modeling and Learning to Act/Behave (i.e. Reinforcement Learning), Scalability, Representation, and the Tradeoff Between Stochastic and Deterministic Modeling
			Mathematical Modeling of Complex Biological Systems, Such as Genetic Regulatory Networks and Receptor Signaling Cascades

**Recent DoD/Other Contract/Grant/Procurement Experience**

**Agency:** NIH  
**Funding Level:** \$8,188,700      **Year:** 2003 - 2008  
**Project Director:** Eric S. Loker  
**Title of Project:** COBRE Center for Evolutionary and Theoretical Immunology



**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
LaVerne Ragster	Ph.D.	Marine Biology	MBRs and Sea Grant Projects

<u>PROGRAM 4</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Marine Science		Bachelors

**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None Indicated.

<u>PROGRAM 5</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Mathematics		Bachelors

**Laboratories and Other Facilities and Equipment**

None Indicated.

**Researchers: Academic Background & Research Specialty (ies)**

None indicated.

**VIRGINIA UNION UNIVERSITY**  
**Richmond, VA 23220**

**Contact: Mr. Samuel T. Rhoades**  
**Assistant to the President for**  
**Sponsored Programs**

**Telephone: (804) 257-5811**  
**Fax: (804) 257-5779**  
**Email: strhoades@aol.com**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		Bachelors
Chemistry		Bachelors
Mathematics		Bachelors

**Laboratories and Other Facilities and Equipment**

Biology has one teaching research lab and four lecture labs. Mathematics has one physics teaching lab and one computer science teaching lab. Chemistry has four teaching labs, one balance room, one equipment room and two research labs. There are three darkrooms, one observatory and a greenhouse located in Ellison Hall.

**Researchers: Academic Background and Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Harry S. Bass	Ph.D.	Biology	Parasitology, Biochemistry, Cell Biology
Rajendra Raval	Ph.D.	Chemistry	Inorganic Chemistry
Anthony Madu	Ph.D.	Biology	Molecular Genetics, Microbiology, Biotechnology, Molecular Biology
Philip Archer	Ph.D.	Biology	Environmental Science
LeBarron Chambers	Ph.D.	Biology	
James Wright	M.S.	Biology	Neurobiology
Leslie Whiteman	Ph.D.	Biology	Immunology
Dorothy Eseonu	Ph.D.	Chemistry	Organic Chemistry, Environmental Chemistry

<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Religious Studies		Bachelors

**Laboratories and Other Facilities and Equipment**

The students enrolled in the Bachelor of Arts degree program in Religious Studies have access to the facilities of the University Library. In addition, they have access to the resources of the Spence Library located on the campus of Union Theological Seminary. The Science Library is acclaimed as one of the leading theological libraries in the U.S. Students also have access to the Reignew Recording Library at Union Theological Seminary. This facility contains several thousand tapes, films, slides, and other audio visual aids.

**Researchers: Academic Background and Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Angelo Chatmon	Master of Divinity & Theology M.A.	Theology	Anthropology
Sylvester Smith	Master of Divinity & Theology Ph.D.	Theology	Ethics

<u>PROGRAM 3</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Criminal Justice/Criminology		Bachelors
History/Political Science		Bachelors
Psychology		Bachelors
Social Work		Bachelors

**Laboratories and Other Facilities and Equipment**

The University has a number of computer laboratories which support the work of all the programs listed.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
Jay Malcan	Ph.D.	Criminology	Police Training, Community Oriented Policing
Robert Goldman	Ph.D.	History	Legal History

Raymond Hylton	Ph.D.	History	Irish Huguenots
Jeffrey Clark	Ph.D.	Psychology	Pattern Perception
Hasan Ziale	Ph.D.	Psychology	Infant Self Regulation
Gerald Foster	D.S.W.	Social Work	African American Communities
Ramsey Kleff	Ph.D.	Political Science	Terrorism: Middle Eastern Politics
Eric King	M.A.	Political Science	Black Nationalism

<b><u>PROGRAM 4</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
English	Composition & Literature	Bachelors

**Laboratories and Other Facilities and Equipment**

A Performance-Based Writing Center.

**Researchers: Academic Background & Research Specialty(ies)**

<b>NAME</b>	<b>DEGREE</b>	<b>DISCIPLINE</b>	<b>RESEARCH SPECIALTY</b>
Margaret Duckworth	M.S.	English	Stylistics, Medial Literature
James Armstrong	M.A.	English	Writing Pedagogy

<b><u>PROGRAM 5</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Speech and Drama	Drama	Bachelors in English Drama Major

**Laboratories and Other Facilities and Equipment**

The productions are created and performed in the campus theater.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Valerie West	M.B.A.	Speech/Drama	African-American Theater

<b><u>PROGRAM 6</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Music Education	Performance Pedagogy	Bachelors

**Laboratories and Other Facilities and Equipment**

Musical instrument digital interface computer laboratory.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
W. Weldon Hill	Ph.D.	Music Theory	Jazz Studies
Willis Barnett	D. Min.	Composition	Church Music
Karen Savage	D.M.A.	Voice	Art Songs

<b><u>PROGRAM 7</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Business	Accounting	Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Jessica Bailey	Ph.D.	Marketing	Marketing
Judith Powell	Ph.D.	Marketing	
Sarah Reese	M.A.	Accounting	
H.P.Singh-Sandhu	Ed.D.	Economics	Global Economics Theory
Adalaje Odutola	Ph.D.	Economics	Global Economics Theory

<b><u>PROGRAM 8</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Humanities	English, Afro-American Literature	Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Preston Yancy	Ph.D.	English Afro-American Literature Afro-American Short Story	

<b><u>PROGRAM 9</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Teacher Education	Special Education Interdisciplinary Studies	Bachelors

**Laboratories and Other Facilities and Equipment**

Computerized National Teachers Examination skills Instrumental lab designed to prepare students for NTE-Praxis.

**Researchers: Academic Background & Research Specialty(ies)**

<b><u>NAME</u></b>	<b><u>DEGREE</u></b>	<b><u>DISCIPLINE</u></b>	<b><u>RESEARCH SPECIALTY</u></b>
Delores Greene	Ed.D.	Curriculum & Instruction	

**Recent DoD/Other Contract/Grant/Procurement Experiences**

**Agency:** National Endowment for the Humanities  
**Funding Level:** \$25,000 **Year:** Year 1  
**Project Director:** Linda McDonald  
**Title of Project:** Ventures into Non-Western Literature

**Agency:** Department of Education  
**Funding Level:** \$90,000 **Year:** Year 3  
**Project Director:** John Blackwell  
**Title of Project:** Teacher's Technology

**Agency:** National Institute of Disability and Rehabilitation Research  
**Funding Level:** \$50,000 **Year:** Year 1  
**Project Director:** Dr. Willie A Bragg  
**Title of Project:** RRTC on Workplace Supports

**Agency:** Phillip Morris, USA  
**Funding Level:** \$67,233 (\$113,033 total)      **Year:** Year 1  
**Project Director:** Dr. Shaheen Islam  
**Title of Project:** Study of Nanostructured Catalytic Material Using X-Ray Absorption Fine Structures

**Agency:** National Science Foundation  
**Funding Level:** \$767,985      **Year:** Year 2  
**Project Director:** Dr. Bernard W. Franklin  
**Title of Project:** Mid-Eastern Alliance for Minority Participation

**Agency:** Howard Hughes Medical Institute  
**Funding Level:** \$100,000      **Year:**  
**Project Director:** Dr. Philip Archer  
**Title of Project:** Biotechnology Exchange Program

**Agency:** National Institute of Health  
**Funding Level:** \$361,000      **Year:** Year 1-New  
**Project Director:** Dr. Anthony Madu  
**Title of Project:** The VUU MARC U Star Program: Creating Opportunities for Undergraduate Research and Scholarly Enhancement

**Agency:** Verizon  
**Funding Level:** \$10,000      **Year:**  
**Project Director:** Dr. Vonita Foster  
**Title of Project:** L. Douglas Wilder Interactive Learning Exhibit

**Agency:** United Negro College Fund, Inc.  
**Funding Level:** \$36,300 (\$99,400 total)      **Year:** Year 2  
**Project Director:** Dr. Jeffrey Clark  
**Title of Project:** Improving Teaching and Learning at Virginia Union University through the Appropriate and Effective Use of Computer-Based Technology

**Agency:** W.M. Keck Foundation  
**Funding Level:** \$125,000 (\$500,000 total)      **Year:** Year 1  
**Project Director:** James Armstrong  
**Title of Project:** Redesigning Academic Curriculum Using the Instructional Systems Design Process

**VOORHEES COLLEGE**  
**Denmark, SC 29042**

*Data from 1996*

**Contact: Dr. Laura R. Dawson**  
**Vice President of Institutional Advancement**

**Telephone: (803) 793-3351**

**STRONG ACADEMIC PROGRAMS AND SPECIALTIES**

<b><u>PROGRAM 1</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Biology		Bachelors

**Laboratories and Other Facilities and Equipment**

The modern air conditioned Science building contains Biology, Chemistry, and Physics Labs, Nine classrooms, one 220 capacity auditorium, ten faculty offices, and one animal room equipped with 120 cages.

Biology laboratory contains compound microscopes, dissection microscopes, slide projection microscopes, simple beam balance, small centrifuges, incubators, sterilizers, sterilizer/heaters, environmental chambers, refrigerators, projectors, water sill, slide warmer, advanced microscopes, 12 large fish holding tanks, 30 small aquarium with pumps and scales and Camera Lucida.

The Chemistry Laboratory contains Perkin Elmer IR spectrometers, analytical balances, vacuum pump spectronic photometer, centrifuge apparatus, and gas burners.

The Physics Laboratory contains air track and accessories, oscilloscopes, and an assortment of other equipment.

<b><u>PROGRAM 2</u></b>	<b><u>SPECIALTY</u></b>	<b><u>DEGREE LEVEL</u></b>
Computer Science	Business Option Scientific Option	Bachelors

**Laboratories and Other Facilities and Equipment**

The College has four (4) well-equipped Computer Laboratories to support its Computer Science Major programs as well as its other academic programs. These laboratories have an IBM 4361 processor, IBM 3370 Disc-drive, IBM 8809 Control Unit, twelve (12) IBM 3178 terminals, twenty (20) IBM personal computers interfaced with the Mainframe using emulation boards, nineteen (19) IBM PS/2 model 60, sixteen (16) IBM PS/2 model 25, thirty (30) 386 SX 25 PC's, fifteen (15) laptop computers and four (4) 386 machines. In addition, the Computer Labs are equipped with the following software: COBOL,

dBase, Harvard Graphics, Lotus 123, PageMaker, Windows, Writing Assistance, WordPerfect 5.1, Pascal, Assembly and FORTRAN.

**PROGRAM 3**

**SPECIALTY**

**DEGREE LEVEL**

Criminal Justice

Bachelors

**Laboratories and Other Facilities and Equipment**

None indicated.

**Researchers: Academic Background & Research Specialty(ies)**

None indicated.

**Recent DoD/Other Contract/Grant/Procurement Experience**

None indicated.



<u>PROGRAM 2</u>	<u>SPECIALTY</u>	<u>DEGREE LEVEL</u>
Chemistry	Physical Organic Chemistry	Bachelors

**Laboratories and Other Facilities and Equipment**

The areas of mathematics and science are housed in the Aaron Baker Science Building. It contains eight research laboratories, glass blowing room, tool room, computer laboratory, tutorial lab, a smart math classroom, and a faculty instructional technology room. Some of the specialized equipment includes: IR spectrophotometer, Atom Absorption, NMR spectrometer, HPLC, radiochemical counters, and a preparative ultracentrifuge.

**Researchers: Academic Background & Research Specialty(ies)**

<u>NAME</u>	<u>DEGREE</u>	<u>DISCIPLINE</u>	<u>RESEARCH SPECIALTY</u>
John G. Stuart	Ph.D.	Organic Chemistry	Cobalt-Mediated Synthesis Negative Ion Chemical Ionization of Amphetamine Derivatives Molybdenum Co- Factor Heterocyclic Chemistry
Mukweyi Wamalwa	Ph.D.	Mechanical Engineering	Engineering Materials, Simulation Modeling Problem Theory and Practice in Engineering Research

**Recent DoD/Other Contract/Grant/Procurement Experiences**

None indicated.

## **SECTION IV**

### **ALPHABETICAL SUMMARY BY INSTITUTION OF THEIR MEDICAL AND ALLIED SCIENCES LABORATORY CAPABILITIES**

#### **Alabama A&M University**

**Chemistry  
Food science  
Physics**

#### **Alcorn State University**

**Biology  
Microbiology**

#### **Benedict College**

**Genetics  
Tissue and cell analysis**

#### **Bennett College (NC)**

**Chemistry  
Medicinal**

#### **Bethune-Cookman College**

**Biology  
Biochemistry  
Endocrinology**

#### **Central State University**

**Microcomputer  
Microprocessor  
Robotics**

#### **Claflin College**

**Cell Culture/Tissue**

#### **Clark Atlanta University**

**Accelerator and atomic and molecular physics  
Biology  
Biochemistry  
Cellular, molecular and developmental  
Elementary particles  
Polymer chemistry  
Polymer physics**

**Physical chemistry  
Physics  
Solid state physics**

**Charles R. Drew University  
Medical Library**

**Delaware State College  
Cell ultrastructure  
Immunology  
Lipid biochemistry**

**Elizabeth City State University  
Biology  
Cell Biology**

**Fayetteville State University  
Biology  
Biochemistry**

**Fisk University  
Biology**

**Florida A&M University  
VIS Spectrophotometer  
Computer-Aided Design  
Clinical Simulation**

**Florida Memorial College  
Infra-Red Spectrometer  
Refrigerated Centrifuge**

**Grambling State University  
Biology  
Chemistry**

**Hampton University  
Electro Microscopy  
Chemical Measurement**

**Howard University  
Antimetastatic drug  
Biochemistry/inorganic/organic/synthesis  
Clinical nutrition  
Dental (oral & maxillofacial)  
Dermatology  
Laser chemistry**

**Medical chemistry**  
**Medicine**  
**Natural products chemistry**  
**Oncology/cancer**  
**Pharmacokinetics**  
**Pharmaceutical chemistry**  
**Pharmaceutical sciences**  
**Physical Pharmaceutics**

**Jackson State University**

**Biology**  
**Cell Biology**  
**Environmental Biology**  
**Microbiology**  
**Physics Lab**  
**Vetebrate Embryology**

**Jarvis Christian College**

**Biology**  
**Tissue culture**

**Johnson C. Smith University**

**Biology**  
**Chemistry**

**Lincoln University of MO**

**Biology**  
**Chemistry**

**Kentucky State University**

**Aquaculture**  
**Biology**  
**Cold Room**  
**Autoclave Preparation Room**

**Meharry Medical College**

**Biochemistry**  
**Biomedical**  
**Biochemistry pharmacology**  
**Chemotherapy pharmacology**  
**Immunology**  
**Microbiology**  
**Neuropharmacology**  
**Neuroscience**  
**Pharmacology**  
**Physiology**  
**Toxicology**

**Morehouse School of Medicine**

**Amebiasis: mucus protection**  
**Anatomy**  
**Biomedical sciences**  
**Cardiovascular pharmacology**  
**Cellular dynamics during blood vessel repair**  
**Community/health preventive medicine**  
**Environmental contaminants and the immune system**  
**Environmental toxicology**  
**Eye cellular dynamic in limb morphogenesis**  
**Galaptin synthesis and lung development**  
**Gastrointestinal biology**  
**Immunology**  
**Immunology and leprosy**  
**Intestinal ionic**  
**Microbiology**  
**Molecular genetics and endocrinology**  
**Neuropharmacology**  
**Pathology**  
**Pharmaceuticals**  
**Pharmacogenetics**  
**Pharmacology/toxicology**  
**Physiology**  
**Retinitis pigmentosa**  
**Reproduction**  
**Transport gut**  
**Ultrastructure of intercellular junctions**  
**Vitamin D metabolism**

**Morgan State University**

**Biotechnology**  
**Chemistry**  
**Immunology**  
**Mossbauer Spectroscopy**  
**X-ray Diffraction**  
**Neuroscience**  
**Histology**  
**Torque**  
**Toxicology**  
**Physiology**  
**Vibrating Magnetometers**

**Morris Brown College**

**Chemistry**

**New Mexico Highlands University**

**Biology**  
**Chemistry**  
**Electrophoretic and Chromatographic Equipment**

**Norfolk State University**

**Biology**  
**Chemistry**

**North Carolina A&T State University**

**Chemistry**

**Oakwood College**

**Biochemistry**  
**Diabetes**  
**Hypertension**  
**Laser optics**  
**Tissue culture**

**Pontifical Catholic University of Puerto Rico**

**Radiochemistry**

**Prairie View A&M University**

**Chemistry**

**San Diego State University**

**Biology**  
**Heart Research Lab**  
**Biocontainment Labs**  
**Electron Microscopy**

**Savannah State College**

**Ultracentrifuges**  
**Spectrophotometers**

**Selma University**

**Biology**  
**Cell molecular biology**  
**Enzyme kinetics**  
**Microbiology degradation**  
**Toxicology**

**Shaw University**

**Biology**  
**Molecular Biology**

**South Carolina State College**

**Biology**

**Biochemistry  
Genetics  
Molecular biology**

**Southern University at New Orleans**

**Biology  
Chemistry  
Physics**

**Stillman College**

**Biology**

**Tennessee State University**

**Biomedical  
Toxicology**

**Texas Southern University**

**Biology  
Chemistry  
Tissue culture  
Toxicology  
Virology**

**Tuskegee University**

**Acupuncture  
Biology  
Biochemistry  
Cardiovascular  
Cancer  
Drug institute/minor animal  
Electron microscopy  
Epidemiology/serum bank  
Infectious agent  
Molecular biology  
Red cell physiology  
Reproductive efficiency  
Reproductive physiology  
Swine disease  
Toxicology  
Virology  
Veterinary medicine**

**University of Arkansas-Pine Bluff**

**Chemistry**

**University of the District of Columbia**

**Chemistry**

**University of LaVerne**  
**Biology**  
**Chemistry**

**University of Hawaii – Manoa**  
**Microbiology**

**University of New Mexico**  
**Molecular Core Facility**

**University of Puerto Rico**

**University of Texas of El Paso**  
**Biology**  
**Biochemistry**  
**Chemistry**  
**Molecular biology**  
**Toxicology**

**Virginia State University**  
**Cell Biolog**  
**Laser Physics**

**Virginia Union University**  
**Biology**

**Winston-Salem University**  
**Molecular Biology**  
**Medical Technology**  
**Life Sciences**  
**Nursing**  
**Adult Education**  
**Protein in Breast Cells**  
**Neurotoxins**

**West Virginia State College**  
**Biology**  
**Functional Morphology**

**Wilberforce University**  
**Biology**  
**Chemistry**

**Wiley College**  
**Biology**

**Xavier University of LA**

**Bio-environmental contaminants**

**Bio-pharmaceutics**

**Biochemistry**

**Chemistry**

**Chemistry (Medicinal/pharmaceutics)**

**Medicinal chemistry**

**Metabolism**

**Pharmacology/toxicology**

**Pharmacology**

**Pharmacokinetics**

**Toxicology**

## **SECTION V**

### **ALPHABETICAL SUMMARY BY INSTITUTION OF THEIR MEDICAL AND ALLIED SCIENCES ACADEMIC PROGRAMS**

#### **Allied Health**

**Charles R. Drew University**

#### **Anatomy**

**Morehouse School of Medicine**

#### **Animal Science**

**California State Polytechnic University**

**Langston College**

#### **Biochemistry**

**Bethune-Cookman College**

**Howard University**

**Meharry Medical School**

**South Carolina State College**

**Tuskegee University**

**The University of Texas at El Paso**

#### **Bio-environmental**

**Xavier of LA**

#### **Biological Sciences**

**Alcorn State**

**California State Polytechnic University**

**Central State University**

**Lincoln University of Pennsylvania**

**Tennessee State University**

**University of Texas at El Paso**

**Winston-Salem State College**

#### **Biomedical Sciences**

**Coppin State**

**Stillman College**

#### **Biology**

**Albany State College**

**Alabama State University**

**Alcorn State University**

**Atlanta Metropolitan College**  
**Benedict College**  
**Bennett College**  
**Bethune-Cookman College**  
**Clafin College**  
**Clark Atlanta University**  
**Concordia College**  
**Delaware State College**  
**Elizabeth City State University**  
**Fayetteville State University**  
**Fort Valley State University**  
**Hampton University**  
**Howard University**  
**Huston-Tillotson College**  
**Inter-America University of Puerto Rico**  
**Jackson State University**  
**Jarvis Christian College**  
**Johnson C. Smith University**  
**Kentucky State University**  
**Lane College**  
**Lincoln University (MO)**  
**Lincoln University (PA)**  
**Livingstone College**  
**Mississippi Valley State University**  
**Morehouse College**  
**San Diego State University**  
**Savannah State College**  
**Shaw University**  
**Stillman College**  
**Texas A&I University**  
**Texas Southern University**  
**Tuskegee University**  
**University of Guam**  
**University of La Verne**  
**Virginia Union University**  
**Voorhees College**  
**West Virginia State College**  
**Wilberforce University**  
**Wiley College**  
**Xavier of LA**

**Biomedical Science**

**Meharry Medical College**  
**Morehouse School of Medicine**  
**Tennessee State University**

**chemical Engineering**

**California State Polytechnic University  
Tuskegee University**

**Chemistry**

**Albany State College  
Alcorn A&M University  
Atlanta Metropolitan College  
Benedict College  
Bennett College (NC)  
California State Polytechnic University  
Claflin College  
Clark Atlanta University  
Delaware State College  
Fayetteville State University  
Florida A&M University  
Florida Memorial College  
Grambling State College  
Hampton University  
Howard University  
Huston-Tillotson College  
Inter-America University of Puerto Rico  
Jackson State University  
Jarvis Christian College  
Johnson C. Smith University  
Lincoln University (MO)  
Lincoln University (PA)  
Texas Southern University  
Tuskegee University  
University of Arkansas-Pine Bluff  
University of La Verne  
University of Texas at El Paso  
University of the Virgin Island  
Virginia State University  
Virginia Union University  
West Virginia State College  
Wilberforce University  
Wiley College  
Xavier University**

**Clinical Nutrition**

**Howard University**

**Food Sciences**

**Alabama A&M University**

**Medical Chemistry**

**Howard University**

**Medicine**

**Charles R. Drew Medical School  
Howard University  
Meharry Medical College  
Morehouse School of Medicine**

**Microbiology**

**Meharry Medical College  
Morehouse School of Medicine**

**Oncology/Cancer Center**

**Howard University**

**Pathology**

**Morehouse School of Medicine**

**Pharmaceutical Sciences**

**Howard University**

**Pharmacology**

**Meharry Medical College  
Morehouse school of Medicine**

**Pharmacy**

**Florida A&M University  
Texas Southern University  
Xavier University of LA**

**Physics**

**Alabama A&M University  
Atlanta Metropolitan University  
Benedict College  
Clark Atlanta University  
Delaware State College  
Florida A&M University  
Grambling State University  
Hampton University  
Howard University  
Jackson State University  
Lincoln University  
Shaw University  
University of Arkansas-Pine Bluff  
University of the District of Columbia  
University of LaVerne  
University of the Virgin Islands  
Virginia State University**

**Wiley College**

**Physiology**

**Meharry Medical College**

**Morehouse School of Medicine**

**Toxicology**

**University of Maryland-Eastern Shore**

**Veterinary Medicine**

**Tuskegee University**