

News Release

Roscoe Bartlett

Representing the 6th District of Maryland

Committees: Armed Services, Science, & Small Business



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Congressman Roscoe Bartlett Announces Federal Funding That He Secured for Projects by District and Maryland Companies in the FY '05 Defense Conference Report

Washington, D.C. – Congressman Roscoe Bartlett (R-6-MD) announced today that he had secured federal funding for numerous programs for Sixth District and Maryland companies and at Fort Detrick that were included in the FY '05 Defense Appropriations Conference Report. Negotiations finalizing the Conference Report were recently completed. Approval by the House and Senate and the President are anticipated.

Congressman Bartlett said, “As a senior member of the House Armed Services Committee and chairman of its Projection Forces Subcommittee, I discovered this year a number of items needed by the military, but which were not in the President's budget and would not have been in the final bill except for my efforts. These additional provisions will improve our military capabilities while ensuring jobs for Marylanders. Now, more than ever, the men and women in our military need these additional tools so that we can win the war against terrorism abroad and prevent terrorist attacks at home.”

Frederick, MD

Aluminum Lightweight Structure- ALCOA- \$5.1M

The objective of the ALSI program is to develop, design, demonstrate, validate and implement a methodology for producing lightweight vehicle structure components and assemblies for the Army Future Combat Systems (FCS). The methodology being utilized has been proven to substantially reduce costs and weights of structures in the automotive (commercial autoframes) and aerospace (U.S.A.F. aerostructures) arenas. Air Force aerostructure efforts have resulted in part count reductions in excess of 95%, weight reductions of 10-20%, cost reductions of 25-50% and flow time reductions of 30-65% with a net present value savings to the Air Force in excess of \$200 million. The integrated methodology proven by Alcoa in the automotive arena and now being successfully applied in the aerostructures sector offers DOD a significant

opportunity to move the FCS program forward. Through the use of innovative aluminum materials and products, as well as those of titanium (of which Alcoa is a major supplier), in conjunction with novel joining and assembly technologies, Alcoa believes that substantial structural cost and weight reductions can be achieved in FCS structures without compromising the integrity of the vehicle. Specifically in FY05, Alcoa and the FCS contractors will be focused on 3 areas of the vehicle, including: the FCS common chassis, advanced titanium/ceramic armor systems and the NLOS-C (Non-Line of Site Cannon) structure.

Reeves Manufacturing, Frederick, MD
Combat Casualty- \$1.75M

Provides improved field medical equipment to meet requirements highlighted by today's combat operations and littoral warfare. Specifically, it allows Navy Medical Department Corpsmen supporting Fleet Marine Force battalions to more quickly stabilize and evacuate casualties during the critical "golden hour" after initial trauma, vastly improving survival rates and recovery times. The program procures state-of-the-art, lightweight and standardized litters and litter load carriage tools, pelvic stabilization devices, ENT kits, tactical airway tools, and trauma gloves; as identified on the Navy authorized medical allowance (AMAL) list.

Fort Detrick, Frederick, MD
Fort Detrick Technology Transfer Initiative - \$1M

The Fort Detrick Technology Transfer Initiative will build upon the existing efforts of Fort Detrick and the Frederick County leadership to make the base facility's many unique resources more readily available to the commercial sector, and the Maryland Technology Development Corporation's (TEDCO) broad experience connecting small businesses with the technology capabilities of defense facilities in Maryland. The project will create a specialized pre-commercialization fund which will provide grants to small businesses that are collaborating with the research laboratories on the base, and provide enhanced capabilities for the Office of Research and Technology Applications (ORTA) of the U.S. Army Medical Research and Materiel Command (USAMRMC) to partner with industry. The promotion of Frederick County/Fort Detrick as Maryland's next technology growth center is one of the State's top economic development priorities. The newly-formed Fort Detrick Alliance, the Frederick Technology Council, the Frederick County Chamber of Commerce and the City of Frederick Office of Economic Development all support the project.

Frederick, MD
Inovio - \$1M

The U.S. Army is currently developing novel vaccines and medicines to eliminate or reduce biological threats on the battlefield. A versatile approach is taken to develop novel vaccines to protect soldiers from biological or viral attack. This work includes an elaborate process of identifying possible vaccine candidates;

often this starts with the identification of numerous genes (vaccine candidates) from the pathogen constituting a bio threat. An important step in this process is to validate the vaccine candidates in animal models. This is a time consuming and costly process. The Elgen Gene Delivery Technology Program speeds up and enhances the quality of the validation while at the same time reducing the cost. Key savings are associated with the improved delivery, hence less DNA needs to be used, fewer animals need to be included in each study since the variability goes down, and results come faster since one injection is often sufficient to obtain a good response. The total savings can often be more than 80%. Once the vaccine candidate is identified the same gene delivery technology can be used to deliver the vaccine to the soldier.

Frederick, MD

Invitrogen Multipurpose Immunoarray - \$1.1M

Multi-purpose Biodefense Immunoarray: The project would conduct research aimed at the development of a Multi-purpose Biodefense Immunoarray. This enabling technology will provide the DoD's biodefense program a flexible analytical tool for biodefense to support force protection, intelligence/threat assessment, and non-proliferation compliance monitoring. The immunoarray being sought will allow for rapid and inexpensive characterization of new and novel pathogens, expedited development of countermeasures (vaccines and therapeutics) to biological threats, and provide a core technology for improved detectors and diagnostics. An immunoarray will also allow for screening both individuals and populations to determine their vulnerability or resistance to particular threats. The project would be sponsored by the US Army Medical Research Institute of Infectious Disease (USAMRIID) and carried out by the Invitrogen Corp. in Carlsbad, CA and Frederick, MD.

Cherry Roads, Monrovia, MD

Army Knowledge Online-\$3.4M

The Army has an unfunded requirement of \$6.0 M for the Army Knowledge Online (AKO) web-based portal initiative, based at Fort Belvoir, Virginia and Monrovia, Maryland to provide a Disaster Recovery capability. This capability will eliminate single points of failure in the existing system, provide data storage management capabilities, and improve the classified and unclassified networks supporting AKO. Increased operational tempo, combined with dramatic data growth, has resulted in the critical need for data management software and services. Budget shortfalls have prevented the Army from establishing a robust disaster recovery system as determined operationally necessary following the September 01 attack on the Pentagon.

Hagerstown, MD

Mack Trucks Hybrid Electric Aviation Truck- \$2M

Funds will result in delivery of a first generation Hybrid Electric truck in February 2005 that includes an Integrated Hybrid Drive System. The Integrated Hybrid

Drive System will combine a diesel engine with an electric motor to enhance vehicle performance, fuel economy and reduce emissions. A high level of integration is necessary to obtain paybacks and performance advantages that go beyond fuel economy and lower emissions. The vehicle will have improved acceleration when needed, reduced brake maintenance due to regenerative braking, reduced idling and the ability to operate in "quiet mode". This new generation of heavy-duty vehicles will be less costly to operate than conventionally powered diesel vehicles and will comply with EPA 2007 and 2010 EPA emissions standards.

Clarksburg, MD

Thales- \$4.1M for MBITR Special Ops radio

Blue Force Tracking (BFT) embedded in Multi-band Inter/Intra team radio (MBITR). The importance of an accurate knowledge of the location of friendly (Blue) forces on the battlefield is reinforced with every incident of fratricide that occurs. Currently SOF depends on separate devices to provide this capability for its dismounted warfighters. This project embeds the BFT capability in the SOF standard MBITR handheld radio via software, eliminating the complexities of a task specific device, and reducing the combat load of the warfighter.

Columbia, MD

Beamhit- Laser Marksmanship Training System (LMTS) \$6.8M for Naval Reserve; \$4M for the Army Reserve: \$10.8 M total

Builds upon existing Naval Reserve program to field LMTS to all Naval Reserve Centers. Fields LMTS for Army Reserve training. The LMTS is a proven laser-based marksmanship training system engaging various types of targets using a sailor or soldier's own assigned weapon without the use of live ammunition. LMTS supports individual marksmanship from the first stage through the advanced sniper skill level. LMTS is the only basic rifle marksmanship system that can be used indoors, in a regulated environment or outdoors, in realistic weather and light conditions. In addition, LMTS allows 'shoot & move' training without additional facility costs. In conclusion, this system contributes to individual sailor and soldier unit readiness, improves skill retention, better prepares for unit mobilization, greatly reduces unit-training costs and achieves environmental cost avoidance associated with traditional live fire training.

Columbia, MD

Fibernet- \$1M

The Nationwide Dedicated Fiber Optic Network (NDFON) is a program that will meet the government's requirements for a dedicated high-speed, high-bandwidth fiber optic network backbone to service our Nation's most critical communications operations. NDFON will be a secure, reliable and survivable network capable of supporting all current and projected communications requirements while withstanding outages, major spikes in usage or attempted security violations related to natural disasters, terrorism or other unforeseen events. Additional

funding is toward completing NDFON's nationwide engineering design package and to move the program toward full adoption.

Hunt Valley, MD

C-17 Maintenance- AAI- \$34M

C-17 Maintenance Training System. This capability would provide valuable on-site maintenance training to help avoid costly and disruptive travel to gain training elsewhere. Without funds programmed for a Maintenance Training System on site, and because of a heavy flying requirement for each aircraft, each unit will spend considerable money and lose personnel regularly to receive maintenance training elsewhere.

Annapolis, MD

Rolls Royce Naval Marine \$2M

The Fuel and Engine Maintenance Savings System (FEMSS) is comprised of a set of new generation propeller blades, which are attached to each of the ships two Controllable Pitch Propeller hubs; two Propulsion Load Management Units (PLMU), one per shaftline; and new propeller proportional control valves.

The FEMSS has demonstrated an overall fuel savings of 6.1% across the entire ship operating profile; an increase in ship speed of two to three knots; and significantly reduced maintenance and replacement costs associated with the original control valves. Furthermore, the need for control oil filters has been eliminated altogether. Total savings over the life of the LSD41/49 class is over \$54 million and the return on investment to the Navy is 424%.

Upper Marlboro, MD

NAID - \$1M

The SCANJACK Mine Clearing System is a mine-clearing vehicle (MCV) equipped with a double flail system able to destroy all known landmines to a depth of at least 30cm in a variety of terrain conditions. After rigorous quality assurance conducted by the United Nations and others, the SCANJACK machine is not known to have ever missed a landmine in the field. A recent study conducted by the Swedish military tested the world's leading mine clearing systems against 900 landmines and demonstrated SCANJACK superiority. It had the highest clearance rates for both anti-tank mines and anti-personnel mines in each of the test environments. The U.S. Army's Night Vision and Electronic Sensors Directorate at Fort Belvoir, Virginia has responsibility for acquisition and testing of mechanical systems for military and humanitarian mine clearance. This includes research and development for commercial off the shelf (COTS) products, humanitarian de-mining technologies, and military countermine equipment. The program office has expressed a strong interest in acquiring at least one SCANJACK Mine Clearing System for testing and evaluation purposes.

M22 Chemical Agent Alarm - \$10.5M

The Army Guard has an urgent need to have the same modern chemical point detectors as the Army- the ACADA. The ARNG has a state Force Protection need for over 19,000 chemical point detectors to adequately protect its troops. The ARNG has only 231 ACADAs in inventory leaving a shortage of about 18,800.