

FISCAL YEAR 2011 DEFENSE APPROPRIATIONS REQUESTS

US Fed News
Saturday April 10, 2010

The office of Sen. George V. Voinovich:

R-Ohio, issued the following news release: In an effort to bring transparency and accountability to government spending and appropriations, U.S. Senator George Voinovich, (R-OH), Ranking Member of the Senate Committee on Appropriations' Subcommittee on Homeland Security, today released the following Department of Defense appropriations requests for Fiscal Year 2011.

Ball Aerospace & Technologies Corp.
Netcentric Operations Technology Integration Center (NOTIC)
Request: \$4,700,000

This project would develop a virtual technology integration capability linking existing Air Force Research Laboratory Sensors Directorate and 711 Human Performance Wing facilities and assets.

Battelle Memorial Institute
Harbor Shield - Homeland Defense Port Security Initiative
Request: \$5,500,000

This project would develop an integrated system that provides a means to conduct rapid inspection of ship's under-hull, developing system integration of under-hull imaging by Synthetic Aperture Sonar & subsurface Electro-optical sensors together.

Bowling Green State University
Flexible Electronic and Photonic Materials
Request: \$2,000,000

This project would develop lightweight, durable technologies with small carbon footprints that are directly related to next-generation solar cells, organic electronics, and the fabrication of devices that more efficiently produce or consume energy.

Edison Welding Institute (EWI)

Additive Manufacturing Consortium
Request: \$3,000,000

This project would develop and advance key manufacturing technologies to build net shape structures directly from base materials creating a new American manufacturing advantage.

GE Aviation
Systems, Electrical Power
Silicon Carbide (SiC) Power Conversion & Distribution Technologies
Request: \$5,000,000

This project would directly support the Air Force Research Laboratory's \$100 million Integrated Vehicle Energy Technology program, F-35 block upgrades, and future aviation power platforms.

Goodrich Corporation
Ceramic Matrix Composites for Aircraft Brake Applications
Request: \$3,000,000

Current composite aircraft braking systems have produced significantly improved wear and friction performance, but their application has been limited due to the melting at high temperatures. Goodrich Corporation is researching manufacturing processes to significantly enhanced temperature and performance capabilities while reducing processing times and costs.

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IN THE NEWS

Goodyear Tire and Rubber Company
Joint Strike Fighter (JSF) Second Source Nose Tire Research
Request: \$1,000,000

This project would ensure a continuous and reliable domestic source of nose tires for the Joint Strike Fighter. It would ensure that the services have sufficient mobility for ongoing activities as well as surge supply in a wartime environment.

Goodyear Tire and Rubber Company
Tire Successor Initiative (TSI)
Request: Report Language

This is a language request centered around the Defense Logistics Agency's Tire Successor Initiative. The requested language would ensure transparent, fair and open competition for military tire procurements among all qualified tire manufacturers, competitive pricing for DoD and the Services, and maintenance of the U.S. industrial base.

Lorain County Community College
Mitigating RoHS Lead-Free Issues in Aerospace Circuit Board Manufacturing
Request: \$2,000,000

In 2003 the EU eliminated hazardous materials - including lead - from electronics in response to growing concern about the environment. In effect, this eliminated 75 percent-85 percent of commercial off-the-shelf components suitable for military and aerospace use. In response, many companies have begun using RoHS-compliant (lead-free) materials, such as tin. In practice, electronic components using tin have sometimes been affected by a phenomenon called "tin whiskering," which causes product failure. This project will increase the reliability of commercial off-the-shelf electronics for mission-critical military applications.

LSP Technologies, Inc.
Mobile Laser Systems for Aircraft Structures (MLSAS)
Request: \$2,750,000

The project would develop a prototype mobile laser peening system suitable for use in Air Force facilities. The technology has cross service applications to Army helicopter platforms. It will include the ability to perform laser peening and laser bond inspection, on-board temperature and other environmental controls, self-alignment and diagnostic features, and a control system permitting easy use and analysis of results. It has been developed by Boeing and LSP under the Air Force's Composite Affordability Initiative.

Moog: FloTork Facility
Electronic Motion Actuation Systems (EMAS)
Request: \$4,000,000

This project would reduce shipboard personnel, reduce repair and maintenance costs, help reach the Navy's repeated desire for an all-electric ship and eliminate environmental hazards associated with hydraulic systems.

Ohio Aerospace Institute and Graftech International
Advanced Aerospace Carbon Foam Heat Exchangers
Request: \$4,000,000

GRAFOAM carbon foam can provide up to 40 percent weight savings over existing stainless steel heat exchangers. This technology would save 200 pounds per Joint Strike Fighter, which significantly increases fuel savings, allows the Air Force to add more capabilities/payload to the aircraft, makes heat transfer more efficient, and doubles the life cycle of military aircraft due to the inert properties of carbon foam (ability to withstand harsh environments), resulting in faster engines and lower overall maintenance costs.

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Ohio University

Alternative Energy Technology: Distributed Power from Wastewater

Request: \$1,500,000

This project would use funds to test two technologies developed by Ohio University that process wastewater into hydrogen, nitrogen, and clean water using renewable energy by building and testing three prototypes for military use in partnership with DOD and commercial partners.

Royal Chemical Company

ACES Material Additive to Improve Diesel Engine Efficiency

Request: \$3,000,000

This project would fund further testing and evaluation of ACESII, a diesel fuel catalyst that increases fuel efficiency, benefits the environment, and prolongs engine life so that the Army and other military services could use ACESII in their fuel.

Steris Corp

Military Medical Decontamination System

Request: \$5,000,000

Recent emerging infectious diseases, including antibiotic resistant strains-MRSA-represent challenges to infection control professionals. Fixed, mobile and shipboard military medical facilities pose a more immediate threat to exposure to chemical and biological agents. This project would provide a review of current practices used in the control of hospital acquired infections, focusing on methods used to limit the spread of infectious diseases during an outbreak, improve them and apply them to military medical units.

TechSolve, Inc.

Smart Machine Platform Initiative

Request: \$4,200,000

To aid in the effort of moving the Army toward lighter and more agile vehicles. In order to accomplish this goal the next generation of machinery must execute instructions and possess complex internal sensing and control systems to create instructions and integrate them, in real time, into manufacturing processes. The Smart Machine Platform Initiative is designed to develop these systems.

The Sherwin-Williams Company

PaintShield for Protecting People from Microbial Threats

Request: \$4,000,000

America's civilians and military personnel are increasingly exposed to air and surfaces contaminated with microbiological threats that pose a significant risk to human health, with implications ranging from decreased productivity to death. Sherwin-Williams has committed to develop PaintShield coating technology, a cost-effective paint that will render microbial threats harmless upon contact. This project would develop, manufacture and commercialize the interior paint designed to intercept and destroy microbiological threats before America's civilians and military personnel are harmed.

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IN THE NEWS

United Technologies Corporation
F-16 Block-42 engine upgrades
Request: \$33,800,000

A multi-year engine upgrade program to Air Wings in Toledo, Ohio and Tulsa, Oklahoma up to the sale performance level as USAF active duty AEF units. Each unit is made up of 24 primary assigned aircraft plus spares. 57 total engines are required. To date, 39 engines have been procured and 33 of the 48 ANG Block 42 aircraft have been upgraded with F100-PW-229 engines. The total engine upgrade program includes 48 engine installs and 9 spares. Therefore, 18 additional engines are required. The direct impact on the warfighter is better payload, range and lower life cycle cost.

University of Cincinnati Medical Center
Smart Wound Dressing for MRSA-infected Battlefield Wounds
Request: \$4,000,000

The U.S. military has need for a battlefield wound dressing capable of preventing and treating infection, speeding healing and ultimately reducing the morbidity associated with battle injuries, most commonly acute traumatic wounds and full and partial thickness burns. This project aims to create a field-deployable bandage that applies high concentrations of antimicrobials directly to the wound surface to prevent and treat MRSA-infection while speeding the rate of healing.

University of Dayton Research Institute
Unmanned Aerial System Exploitation
Request: \$3,500,000

Unmanned Aerial Systems (UAS) are highly effective, low cost alternatives to space and manned airborne systems. This project would conduct research to enable more seamless integration of UAS operators and analysts along with the development of Unmanned Aerial Systems Concept of Operations.

Wright State University
Visually Enhanced Decision Making in Layered Sensing
Request: \$1,500,000

The purpose of this project is to develop a system to depict complex information in a form that allows a decision maker take the correct military action and predict results.

Language - ACE PILOTS (Area Coalition for Education - Passion for Innovation & Leadership in Opportunities for Technology Success)
Request: Report Language

This project would authorize the U.S. military to permit members of the Air Force to participate in a volunteer military/government mentor program for up to four hours per month, in order to attract young people to the work of the Air Force and the field of science and technology.

Language - Authorize the Air Force Institute of Technology to Accept Civilian Students
Request: Report Language

The language ensures that both civilian government workers and contract employees have sufficient scientific education to enhance the quality of Air Force products and services. For more information please contact: Sarabjit Jagirdar, Email:- htsyndication@hindustantimes.com

From the office of Sen. George V. Voinovich