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\$111 million for Mass. companies in defense bill

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By Matt Rocheleau, Globe Correspondent

Over \$111 million in federal funding for defense projects at 34 Massachusetts companies is included in the \$626 billion defense budget bill approved by Congress Saturday.

Not included in the statewide total, \$465 million is written in the bill for the Joint Strike Fighter alternate engine program, according to a press release from Senators John Kerry and Paul Kirk. Much of the design and development of the engine is executed at General Electric's facility in Lynn.

Pending final approval, the state's top two recipients are located in Boston – the EMK Institute for the Senate, which is scheduled to receive \$18.9 million, and the Center for Integration of Medicine and Innovative Technology which is scheduled to receive \$9 million, according to the release.

The Defense Appropriations Bill passed the House of Representatives Wednesday and awaits the president's signature.

Below is a list which includes the amount each of the 34 companies is slated to receive and a description of what the funding will be used for. The data is provided by the two senators office's and organized alphabetically by the community the company is based in.

Location: Andover

Recipient: Physical Sciences, Inc.

Purpose: Standoff Detection of Explosives and Explosive Devices

Amount: \$ 3.2 million

Project Description: The funding will create a fieldable system for standoff explosives detection, test that technology in relevant scenarios, and enable its deployment in Afghanistan and Iraq as well as in domestic and international areas where IED threats are present.

Location: Bedford

Recipient: iRobot Corporation

Purpose: Advanced Capabilities for the Battle-Proven PackBot

Amount: \$ 1.2 million

Project Description: This funding will help develop enhanced military robots that are now an indispensable part of our military forces, saving the lives of our troops in combat on a daily basis while performing a variety of "dull, dirty, or dangerous" missions. Among the most important of these missions is the disabling of Improvised Explosive Devices (IEDs), commonly known as roadside bombs.

Location: Billerica

Recipient: Thermo Fisher Scientific

Purpose: Tactical Metal Fabrication

Amount: \$800,000

Project Description: The Tactical Metal Fabrication (TacFab) System will cut the time required to produce parts by 90%, providing spare and replacement parts to our Warfighters in theater, and also as a stand alone metal cutting

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parts to our warfighters in theater, and also as a stand-alone metal casting resource provided to domestic organic Army depots and industrial facilities, supporting RESET activities.

Location: Boston

Recipient: Boston University Photonics Center

Purpose: Boston University Photonics Center

Amount: \$4.8 Million

Project Description: The Boston University Photonics Center (BUPC) is a premiere national asset providing groundbreaking technology development based on the science and engineering of light. The Fiscal Year 2010 requested funding will complete work on a prototype which detects viral agents and continue development on a unit which identifies radiological and nuclear elements where the level and specific time of exposure are unknown.

Location: Boston

Recipient: Center for Integration of Medicine and Innovative Technology

Purpose: Center for Integration of Medicine and Innovative Technology

Amount: \$9 Million

Project Description: The Center for Integration of Medicine and Innovative Technology (CIMIT) is a productive, talent rich consortium poised to take on the unresolved problems that face our nation, including landmark work on TBI, PTSD, Trauma and Casualty Care, and Infection Control/Sepsis, and therefore requests \$25 Million to provide the necessary innovative development to solve critical problems in a timely and effective manner.

Location: Boston

Recipient: EMK Institute for the Senate

Amount: \$18.9 million

Project: This funding will be used to support the development of the EMK Institute for the Senate which will be located on the campus of UMass-Boston.

Location: Boston

Recipient: Schepens Eye Research Institute

Purpose: Military Low Vision Research Program

Amount: \$ 2.4 million

Project Description: This funding will support the development of new technologies to protect military personnel from blinding eye trauma, new treatments for eye injuries, and innovative methods to enhance visual performance in combat situations.

Location: Newport News, VA/Boston

Recipient: Soluble Systems LLC

Purpose: Smart Wound Dressing for MRSA-infected Battlefield Wounds

Amount: \$ 800,000

Project Description: Four of the country's renowned medical institutions are seeking a joint request of \$4,000,000 - \$1M per site at (Beth Israel Deaconess Medical Center at Harvard Medical School (Boston, MA); University of Cincinnati Medical Center (Cincinnati, OH); Johns Hopkins Medical Center (Baltimore, MD); and Eastern Virginia Medical School (Norfolk, VA)) to conduct the advanced clinical research needed for the military to identify the most effective MRSA resistant antibiotics, the proper dosages of these antibiotics and the most efficient sizes and packages of dressings appropriate for the types of wounds experienced in battlefield situations.

Location: Boston/Woburn

Recipient: Northeastern University

Purpose: Carbon Nanotube Enhanced Power Sources for Space

Amount: \$ 1.6 million

Project Description: Northeastern University (NU) and its Massachusetts team have developed expertise in solution phase for coating chemistry, carbon nanotube integration and device fabrication that enables the creation of new power source technologies that are safer, lighter, concealable, and have a much higher performance than any contemporary battery technology. The team is in the process of developing a new class of lithium ion battery technology which incorporates carbon nanotube technology.

Location: Cambridge
Recipient: ALS Therapy Development Institute
Purpose: ALS Therapy Development Institute Gulf War Research Program
Amount: \$1.6 Million
Project Description: Several studies (conducted by DOD and the VA) have concluded that veterans of the first Gulf War develop the fatal neurodegenerative disease known as ALS twice as frequently as the general population. Another study has concluded that military service is an identified risk factor for developing ALS. This funding would go into advanced research of neurodegenerative diseases.

Location: Cambridge
Recipient: BBN Technologies
Purpose: Acoustic Gun Detection System for Tracked Combat Vehicles
Amount: \$1.6 Million
Project Description: When Soldiers, Airmen or Marines are in their HMMWVs, Strykers, or MRAP vehicles, the Boomerang Gunfire Detection and Location System (GDS) can provide them immediate information on the shooter's location. BBN, in collaboration with the Army's ARDEC Acoustic Center of Excellence, proposes to incorporate novel acoustic techniques to detect and locate the sources of hostile small arms fire and in conjunction with an integrated UV sensor would allow for an extended localization performance of the System on High Noise Platforms such as the Bradley.

Location: Cambridge
Recipient: Semprus BioSciences
Purpose: Non-Leaching Antimicrobial Surface for Orthopedic Devices
Amount: \$ 1.2 million
Project Description: This project supports applied research to develop and assess material that improves survivability and ensures better treatment outcomes for warfighters wounded in combat who suffer extremity trauma.

Location: Chelmsford
Recipient: Triton Systems, Inc.
Purpose: Fire and Blast Resistant Materials for Force Protection
Request: \$ 3.2 million
Description: Triton has developed and tested an additive, which, when combined with polyurea, provides a protective composition that is not only fire and blast resistant, but also affordable and easy to apply. Additional funding is required to resolve issues with materials optimization, scale up, characterization, and demonstration.

Location: Framingham
Recipient: Apollo Diamond
Purpose: Diamond Lens Elements for High Powered Laser
Amount: \$800,000
Project Description: This project's focus is on development of 25mm (1 inch) single crystal diamond substrates for use in the Army's High Energy Laser (HEL) program. With this technology, the United States has the opportunity to become the future high technology diamond materials and applications center for the world, generating high paying, export oriented manufacturing jobs.

Location: Fitchburg
Recipient: DRS
Purpose: DDG-51 Hybrid Drive System
Amount: \$8.1 Million
Project Description: This program will continue the development of a hybrid drive propulsion system for the DDG-51 Class destroyers by utilizing advanced motor technologies in an alternate propulsion configuration. This effort will save the Navy substantial fuel costs over the remaining life of each DDG-51 platform and will also extend the life of the existing propulsion system components. In addition to estimates that show that thousands of barrels of fuel per ship per year can be saved using this alternative propulsion approach, the hybrid drive system can also serve as an additional source of power when the ship is operating at higher speeds. The concept calls for design and development of a low speed propulsion alternative by utilizing current advanced electric motor designs and their requisite power electronics. This alternative

...more motor design and then require power generation. The alternate system will provide more efficient low speed propulsion than the current DDG-51 gas turbine system and will provide additional electrical power generation at high speed operations.

Location: Fitchburg

Recipient: DRS

Purpose: Fan Coil Assembly of the Future

Amount: \$2.72 Million

Project Description: This project would design, build, and test of a variable speed Fan Coil Assembly for Navy Ships. The design would replace outdated equipment from the 1970's. Development of the fan coil assembly would increase cooling capacity, reduce weight, reduce equipment acquisition costs and reduce noise levels.

Location: Fitchburg

Recipient: DRS

Purpose: Advanced Steam Turbine

Amount: \$4 million

Project Description: Completing development and testing of a steam turbine magnetic bearing assembly will enable a lower cost turbine generator for the Virginia class Submarine and future submarines.

Location: Hopkinton

Recipient: Arterioocyte, Inc.

Purpose: Infection Prevention Program for Battlefield Wounds

Amount: \$1.6 Million

Project Description: This project will be directed by Arterioocyte, Inc and the United States Army Institute of Surgical Research in collaboration with the Boston Spine Group/Tufts University, who have expertise in cellular therapies, infection prevention and surgical treatment of wounds. This collaborative organization will develop a delivery system for antibiotics that can be applied directly to the wound, and continually release antibiotic as it heals.

Location: North Billerica

Recipient: FLIR Systems, Inc

Purpose: High Performance in-line Sniper Scope

Amount: \$ 2.4 million

Project Description: This funding will provide the military with a High Performance in-line Sniper Scope (HISS) that enables the sniper to scan a target area and identify certain targets that regular Image Intensified (I2) systems would not detect.

Location: North Billerica

Recipient: FLIR Systems, Inc

Purpose: Special Operations Visual Augmentation System Hand Held

Imager/Long Range

Amount: \$ 4 million

Project Description: This project will fill the need, identified by the military for a visual augmentation system for use by special operations forces to provide those forces with the ability to navigate vehicles, conduct surveillance, detect, identify and track threats in all viewing and weather conditions.

Location: Lawrence

Potential Recipient: Ksaria

Purpose: Automated Fiber Optic Manufacturing Initiative

Amount: \$ 2 million

Project Description: This program will address the issue of field installation, field repair, and maintenance by extracting the qualified technologies of the automated manufacturing line and inserting these technologies and processes in small, portable, maintenance equipment that can be used by ship construction and ship's force personnel in the harsh shipboard environment.

Location: Lawrence

Recipient: Polartec, LLC

Purpose: Multi-Climate Protection System

Amount: \$ 6.4 million

Project Description: Navy and Marine Corps aircrew personnel need an improved protective clothing system. The approved Multi Climate Protection System is a modular ensemble that provides total performance by layering thermal protection and shell garments.

Location: Leominster

Recipient: Fosta-Tek Optics

Purpose: Lightweight Polymer Designs for Soldier Combat Optics

Amount: \$800,000

Project Description: The primary focus of this program is to develop a sturdy polymer based material that can be used for low-cost, lightweight eyewear and day optics that can withstand the rigors of adverse conditions.

Location: Lexington

Recipient: Weston Geophysical Corp

Purpose: Air Force Research Laboratory's Nuclear Explosion Monitoring Research Program

Amount: \$ 5 million

Project Description: The Air Force Research Laboratory (AFRL), Hanscom Air Force Base, MA, conducts the only DOD seismic research program to support the Air Force's mission to monitor the world for clandestine nuclear explosions. This funding will increase their ability to understand complicated regional seismic signals from small nuclear tests, such as those to be detected under the CTBT, in order to properly interpret the data from its arrays.

Location: Lowell

Recipient: University of Massachusetts - Lowell

Purpose: Nanomanufacturing of Multifunctional Sensors

Amount: \$ 4 million

Project Description: This funding will help develop a suite of multifunctional sensors with high sensitivity and selectivity that ultimately will be integrated into single compact systems for the warfighter.

Location: Tewksbury

Recipient: Raytheon Company

Purpose: Space Situational Awareness

Amount: \$ 4 million

Project Description: This investment will develop, integrate and test new multi-mission sensor capabilities on the Missile Defense Agency's X-Band Radar (XBR) deployed on the Sea-Based X-Band (SBX) platform, enabling integration into the SSN and support of the space surveillance and space object characterization mission, thereby filling the gap left by the Haystack radar.

Location: Tyngsborough

Recipient: Black-I Robotics, Inc.

Purpose: Affordable Robust Mid-Sized (ARMS) Unmanned Ground Vehicle

Amount: \$ 1.6 million

Project Description: The requested funding will complete ongoing government testing and evaluation of the LandShark Series E UGV chassis and development and advanced testing of payloads to reduce the cost of stand-off UGV capabilities, particularly for Vehicle Borne IEDs, recon, combat engineering and law enforcement missions being carried out by DHS (Logan Airport), DOD (NAVSEA Dahlgren) and DOE (Sandia).

Location: Waltham

Recipient: DocBox, Inc.

Purpose: Clinical Technology Integration for Military Health

Amount: \$1.6 Million

Project Description: The incompatibility of medical devices, equipment, and hospital information systems has left patients vulnerable to human error associated with the manual entry of medical data and limitations caused by caregivers not having access to a complete set of continuous patient data as the patient moves between and within treatment facilities. The proposed program will demonstrate the clinical benefits derived from integrating the clinical environment to create point of care control systems providing the patients of the Defense Department and Veterans Health Administration the highest level of clinical care.

Location: Waltham
Recipient: Foster-Miller, Inc.
Purpose: Advanced Lower Limb Prosthesis for Battlefield Amputees
Amount: \$ 3.2 million
Project Description: Foster-Miller would use this funding with oversight from the US Army Medical Research and Materiel Command Telemedicine and Advanced Technology Research Center, to develop a biologically-controlled, powered artificial limb that will restore full motor and sensory capability to lower extremity patients.

Location: Walpole
Recipient: 2Is Inc
Purpose: Reduced Cost Supply Readiness
Amount: \$1.2 Million
Project Description: Improve weapon system supply readiness while reducing total ownership costs. Supply chain solutions using engineering, manufacturing and data analysis tools and techniques will be used to resolve material constraints before or as they occur.

Location: Walpole
Recipient: Rolls-Royce Naval Marine Inc
Purpose: LCS-1 Waterjet Spares
Amount: \$ 3.2 million
Project Description: The Navy lacks spare waterjets for the LCS-1 class ships due to cost overruns in the program. Machining, assembly and test will be supported by this funding.

Location: Watertown
Recipient: A123Systems, Inc
Purpose: Light Weight Nanophosphate Battery with Improved Energy Density
Amount: \$ 2 Million
Project Description: This project will produce a safe, high energy and high power rechargeable lithium ion battery. Adopting rechargeable batteries will help reduce the logistic burden of delivering batteries to the battle field and reduce the weight of batteries carried by soldiers into battle. In addition, this technology can provide high power capabilities to support a number of high power missions, such as satellite communication, laser, jammer and missile firing applications.

Location: Watertown
Recipient: QD Vision
Purpose: NanoCrystal Source Display
Amount: \$ 760,000
Project Description: This funding is for research with the Army Research Laboratory (ARL) for the continued development of strategically important display technologies utilizing nanocrystals as the emissive source within the display. Applications include design and development of advanced micro helmet mounted displays; tactical infrared displays; and other command and control displays that support combat operations.

Location: Worcester
Recipient: Worcester Polytechnic University
Purpose: The Center for Neuroprosthetics and BioMEMS
Amount: \$ 1.6 million
Project Description: The Center for Neuroprosthetics and BioMEMS, housed in Worcester Polytechnic Institute's (WPI) Bioengineering Institute, is taking a unique and groundbreaking approach to the development of a new, advanced generation of prosthetic limbs and organs that are integrated with, and controlled by the nervous system. This project involves the development of interactive prosthetic limbs that have all the characteristics and functionality of a human limb, including range of motion, joint articulation, nervous system control and sensory feedback.

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