

FY 2011 Department of Defense

Federal Funding Requests in alphabetical order

Senator Kirsten Gillibrand

Arsenal Business and Technology Partnership LTD - Arsenal Support Program Initiative (ASPI); Watervliet, NY; \$9,500,000

This project will support renovations of five Buildings at Watervliet Arsenal, to upgrade and prepare more than 110,000SF of unused and underused space for new commercial businesses and generate new workload for the skilled mission labor at WVA. These efforts support the Headquarters, US Tank-Automotive and Armaments Command initiative to reduce Industrial Mobilization Capacity costs, enhance essential skills and support infrastructure improvements. This project is estimated to create approximately 300 jobs.

Arsenal Business and Technology Partnership LTD - Defense Technologies Advancement Initiative; Watervliet, NY; \$3,500,000

This project will establish a demonstration of an advanced factory model at the Watervliet Arsenal. It will support: rapid prototyping, advancement of manufacturing technologies, new shop floor capability and practices, and training and workforce development. These new capabilities will enhance productivity and efficiency enabling the workforce to do more with less in the future. This project is estimated to create approximately 20 jobs.

Binghamton University - Energy Efficient Electronic Systems; Binghamton, NY; \$6,000,000

This project will allow Binghamton University to collaborate with government, industry and academic partners to develop new, dynamic, predictive workload and cooling system management for military and commercial cyber-physical electronic systems. This project is estimated to create approximately 15 jobs.

The City College of New York (CCNY) - Advanced Lightweight Multifunctional Multi-Threat Composite Armor Material Technology; New York City, NY; \$4,000,000

This program will allow CCNY and their partners to develop lightweight armor for the U.S. Army that will protect a variety of military vehicles from multiple threats. CCNY is working with the U.S. Army's Tank Automotive Research, Development and Engineering Center to design multifunctional armor that has self-sensing capability, can be mass produced cost-effectively, and allows wide-spread deployment on a variety of vehicles. This project is estimated to create approximately 14 jobs.

Columbia University Medical Center - Spinal Muscular Atrophy (SMA) Research Program; New York, NY, \$7,500,000

This project will allow the Spinal Muscular Atrophy Foundation to develop new therapeutic approaches for the currently untreatable disease spinal muscular atrophy (SMA), the most frequent genetic killer of infants and toddlers. Increased investment in SMA research will help lead to treatments that will have immediate impact on children with SMA and on patients with other neurodegenerative diseases, such as amyotrophic lateral sclerosis (ALS; also known as Lou Gehrig's disease). This project is estimated to create approximately 12 jobs.

Excelsior College - Center for Total Force and Veterans' Education and Training Services; Albany, NY; \$695,000

This project will allow Excelsior College to develop the Center for Total Force and Veterans' Education and Training Services-New York (CTFVETS-NY), which will serve as a streamlined, consolidated resource for education and professional development programs for military personnel and veterans. This project is estimated to create approximately 5 jobs.

Griffiss Institute - Malware Research Technology Demonstration and Validation; Rome, NY; \$1,800,000

This program is a technology transition effort providing key capabilities for testing, demonstrating, and validating technologies for Cyber Operations. The project will help to support Air Force Rapid and Agile Cyber Acquisition, resulting in reduced time required to move cyber security apparatuses from the laboratory to operational implementation. This project is estimated to create approximately 12 jobs.

Hauptman-Woodward Medical Research Institute - Viral WMD: Protection and Treatment for the Warfighter; Buffalo, NY, \$6,200,000

This project will produce knowledge that will lower vulnerability to virus-based and biological weapons. This will provide technology deter potential virus attacks, protect the military, and treat infected populations from agents that could be employed in aggression or naturally. This project is estimated to create approximately 9 jobs.

Hunter College - Development and characterization of alkaline fuel cells; New York, NY; \$500,000

This project will allow Hunter College to conduct research in the development and characterization of materials for alkaline fuel cells, which show great potential as robust and compact power sources for battlefield and drone use. For critical military portable power needs in remote locations, the proposed project addresses these needs with a technology that saves crucial volume and weight. Such technology could also be applied in commercial ventures in the future as well. This project is estimated to create approximately 15 jobs.

Infotonics Technology Center - Infotonics Defense Sensor Research; Canandaigua, NY; \$4,000,000

This project will continue the five-year collaboration between Infotonics and the Army Research Labs to create technology that will result in prototypes and produce innovative optoelectronic microsystems devices for direct DoD mission-critical applications. These new systems will allow for individual sensing of biological and chemical weapons and increase soldier protection overall. This project is estimated to create approximately 36 jobs.

Montefiore Medical Center - Montefiore Medical Center Medical Surveillance Initiative; Bronx, NY; \$6,300,000

This project will continue the Medical Surveillance Initiative (MSI) in conjunction with the Department of Defense (DoD). The MSI allows for an analysis of patient data in real time and improve medical surveillance, quality control and cost-savings measures. The project will also substantially improve the quality of care in the Bronx by decreasing costs and increasing effectiveness of medical care. This project is estimated to create approximately 12 jobs.

Museum of Natural History - Research to Advance National Security Goals; New York City, NY; \$3,500,000

This project will continue to support the multi-year Department of Defense-American Museum of Natural History partnership that has successfully advanced research in areas of science closely aligned with DOD's research priorities. The effort will also prepare an associated STEM (science, technology, engineering, mathematics) education component to help build a workforce adequate to meet the nation's security needs. This project is estimated to create approximately 10 jobs.

The New School - PIIM AHLTA Project; New York City, NY; \$10,000,000

This program will complete improvements to the DoD's Electronic Medical Record (EMR) system. These improvements will help create a single, unified view of VA and DoD beneficiary patient records. This effort supports the mission of interoperability and the eventual rollout of these technologies to the private sector. These efforts will also support the necessary engineering required to deliver a stable system capable of providing a stronger continuity of care for both VA and DoD patients. This project is estimated to create approximately 54 jobs.

New York Army National Guard - Civil Support Communications Systems for NYARNG CH-47 Aircraft; Latham, NY; \$600,000

This project will permit the procurement of advanced civil support radio systems to be installed on New York National Guard CH-47 Chinook helicopters in order to increase the unit's effectiveness when performing the full-spectrum of state emergency missions, by allowing direct communications with civilian first responders. This project is estimated to create approximately 4 jobs.

New York Army National Guard - Civil Support Communications Systems for NYARNG UH-60 Aircraft; Latham, NY; \$3,200,000

Funding is for the one-time procurement of advanced civil support radio systems to be installed on New York National Guard UH-60 Black Hawk helicopters in order to increase the unit's

effectiveness when performing the full spectrum of state emergency missions, by allowing direct communications with civilian first responders. This project is estimated to create approximately 4 jobs.

**New York Structural Biology Center - Synchrotron Beamline and Experimental Station;
New York City, NY; \$5,500,000**

This project proposes to build an undulator beamline at NSLS-II to enable researchers working on the structure and mechanisms of pathogens, toxins and their antidotes to continue their important defense-related work at the new synchrotron currently under construction at Brookhaven National Laboratory. This will also permit many scientists in New York to conduct research in a more immediate manner. This project is estimated to create approximately 13 jobs.

New York University Langone Medical Center - Center of Excellence in Infectious Disease and the Human Microbiome and Biostatistics; New York City, NY; \$3,000,000

This project will provide the Center of Excellence in Infectious Diseases and the Human Microbiome second-year funding to continue the biological research mission of the center. The research will focus on diseases and conditions of importance to our soldiers including wound healing, skin problems of soldiers in the field in hot climates, and gastrointestinal disorders including dysentery, dehydration, and acute renal failure and obesity. This project is estimated to create approximately 20 jobs.

New York-Presbyterian Hospital - Linear Accelerator Cancer Treatment Technology Development; New York City, NY; \$3,500,000

This project seeks to enhance the Department of Defense's ability to diagnose, treat and accelerate recovery times of active duty military personnel and veterans from breast and other forms of cancer. This project intends to demonstrate that linear accelerator equipment will improve the quality and continuity of care to breast cancer patients, allow the Department of Defense to enhance its force readiness capabilities both at home and abroad, and reduce costs to TRICARE. This project is estimated to create approximately 8 jobs.

North Shore Long Island Jewish Health System - Development of a therapy for traumatic injury and uncontrolled hemorrhage; Great Neck, NY; \$1,400,000

This project will allow for the development of effective strategies for resuscitation of traumatic injury and uncontrolled hemorrhage. Traumatic injury with severe blood loss is dramatic in combat casualties, so resources will be devoted to those suffering of polytrauma, blast injury and uncontrolled bleeding. Current methods for providing life-saving treatment on the battlefield are inadequate. This project is estimated to create approximately 2 jobs.

Ohel Children's Home and Family Services - Ohel Military Family Wellness Initiative; Brooklyn, NY; \$1,650,000

This project will allow the Ohel Military Family Wellness Initiative to serve active duty soldiers, returning soldiers, and their families in NY, and will provide outreach and psychological treatment

to address the mental and emotional disorders within these individuals. In addition, the program will conduct research and provide education about mental health and emotional conditions so that members of the military community can overcome stigmas and prejudices surrounding mental health treatment. This project is estimated to create approximately 18 jobs.

Patriot Hills at Saranac Lake - Patriot Hills at Saranac Lake, Reintegration, Transition & Therapeutic Healing for America's Warriors and Veterans; Saranac Lake, NY; \$3,261,000

This project will provide feasibility, project design, program services, personnel, site acquisition and infrastructure extensions to establish a comprehensive reintegration and reentry center for military personnel and their families in Saranac Lake. This project is estimated to create approximately 300 jobs.

Polytechnic Institute of NYU - Terahertz-Frequency Materials & Devices Research Center; Brooklyn, NY; \$5,000,000

This project will create a Terahertz-Frequency Materials & Devices Research Center at the Polytechnic Institute of NYU for the THz-frequency material science studies, and the development of novel THz devices, components and systems which will be useful to an array of DOD relevant applications. These devices promise communicative methods that utilize the Terahertz-frequency range, providing faster and more secure information sharing systems. This project is estimated to create 25 jobs.

Rochester Institute of Technology - Advanced Technology for Networked Autonomous Unmanned Systems; Rochester, NY; \$4,000,000

This project will provide funding for research to advance the readiness and capabilities of autonomous military platforms, such as airborne drones and silent surveillance sentinels. RIT's Center for Integrated Manufacturing Studies proposes to address the serious gap in today's technologies related to autonomous systems focusing on technology development, allowing the networking of multiple autonomous systems - ground, air and sea to be able to collaborate on complex tasks.

Schenectady Military Affairs Council - 109th Airlift Wing NP-2000 8 Bladed Propeller System Improvement Program; Scotia, NY; \$8,500,000

This project will enable the 109th Airlift Wing to procure 4-bladed propeller systems for the 5 LC-130 ski-bird aircraft owned by the Air National Guard in support of the National Science Foundation Polar mission. NSF is funding the retrofit for the aircraft which it owns and are operated by the 109th.

Scleroderma Foundation Tri-State Chapter - Inclusion of Scleroderma in the Department of Defense Peer Reviewed Medical Research Program; Binghamton, NY

This project will add the disease Scleroderma to the Department of Defense Peer Reviewed Medical Research Program, which engages in medical research. This distinction will permit DoD related

research into the disease whose study has implications across the medical field, permitting benefits for many sick individuals.

SRC - Penetrating, Reconnaissance, Surveillance, Tracking, and Engagement Radar; North Syracuse, NY; \$5,000,000

This project would leverage the a prototype to accommodate other platforms and border surveillance applications, providing U.S. Forces a critical new capability to detect and track activity under foliage. Currently, U.S. Forces have no way to track enemy movement amongst dense tree canopies; this technology would permit this sensing technology. This project is estimated to create approximately 10 jobs.

Stony Brook University - Nanotechnology for Next Generation Portable Power; Stony Brook, NY; \$3,400,000

The joint Stony Brook University - Farmingdale State College project proposed will provide continued power to essential portable electronics without human intervention. The beamed power can be addressable, encrypted, and secure. This system will have a significant impact on the quality of life for the military, the business community and the average citizen at home and in the work place by eliminating the wires, clutter and batteries on consumer electronics. This project is estimated to create approximately 25 jobs.

SUNY Upstate Medical University - Drugs and Vaccine Testing for Force Protection; Syracuse, NY; \$840,000

This project will assist the Drugs and Vaccine Development for Force Protection, which supports focused research that provides for protection of military personnel against endemic infectious diseases in regions where they may be deployed. Funding will protect Soldiers for the Future Force from infection and sustain operating by preventing hospitalizations and evacuations for the theater of operations. This project is estimated to create approximately 6 jobs.

Thurgood Marshall College Fund - Research and Development Capacity Building Initiative; New York City, NY; \$8,000,000

This project will allow the College Fund to offer direct support to public Historically Black Colleges and Universities to increase the pipeline of applied research and defense-related contracting opportunities at these institutions by providing these students with the technology, infrastructure, and leadership skills necessary and establishing partnerships with local school districts to engage and inspire students so they may pursue science, technology, engineering and mathematics-based careers. This project is estimated to create approximately 50 jobs.

Trudeau Institute - U.S. Navy Pandemic Influenza Vaccine Project; Saranac Lake, NY; \$4,000,000

This project will allow the Trudeau Institute, in collaboration with the U.S. Naval Health Research Center, to investigate new ways to protect military personnel from pandemic influenza through the

coordinated use of vaccines and anti-viral drugs. This program will provide research funding to study the virus under the unique conditions military individuals are subjected to. This project is estimated to create approximately 26 jobs.

United States Military Academy, Directorate of Admissions - Diversity Recruiting and Retention for West Point; West Point, NY; \$1,500,000

This project will allow the military academy at West Point to attract and retain greater numbers of minority individuals in the prestigious school. West Point has struggled to reach its diversity class composition goals for over a decade, specifically in the areas of African-Americans and Reserve and Active Component Soldiers.

University at Buffalo, State University of New York - Cyclotron at the University at Buffalo Clinical and Translational Research Center; Buffalo, NY; \$4,644,000

This project will allow the University to procure a PETTrace cyclotron for UB's Clinical and Translational Research Center, to synthesize radiopharmaceuticals for imaging and study. This equipment will support the development of novel therapies for cardiovascular disease, cancer and neurological disorder. This project is estimated to create approximately 273 jobs.

University of Rochester - Center for Integrated Neurotrauma Research; Rochester, NY; \$6,000,000

This project will allow the creation of the Center for Integrated Neurotrauma Research at the University of Rochester. Funding will facilitate collaboration between the University and other institutions to establish an integrated systems approach that will comprehensively address the medical needs posed by traumatic injury to the nervous system, a major medical issue among war fighter.

US Army Garrison Fort Hamilton - American with Disabilities Act Compliance for the Historical Fort Hamilton Bldg 207; Brooklyn, NY; \$1,760,000

This project will provide ADA (American with Disabilities Act) upgrades to a particular building the Fort Hamilton US Army Base in Brooklyn, NY. These modifications will increase access to the building, which is of utter importance to disabled veterans and other physically disabled individuals.