

**Potential Recipient:** Marine Biological Labs

**Location:** Woods Hole, Massachusetts

**Purpose:** New England Shellfish Farm Recovery Initiative

**Request:** \$1.5 Million

**Project Description:** This funding will be used to develop selectively-bred oysters with enhanced size and disease resistance to meet the growing demand for cultured oysters while preserving New England's coastal waters. Development of these new oyster lines promises to safeguard employment for thousands of New England shellfish farmers and increase the number of jobs on expanded shellfish farms.

**Potential Recipient:** Salem State College

**Location:** Gloucester, Massachusetts

**Purpose:** Gloucester Mussel Industry Development Project

**Request:** \$499,000

**Project Description:** This project will increase the number of mussel lines off the coast of Gloucester, Massachusetts. The increase in mussel lines will result in year-round employment for local ground fisherman, who are currently permitted to fish for fewer than 30 days per year.

**Potential Recipient:** Tufts University

**Location:** Boston, Massachusetts

**Purpose:** Jean Mayer Human Nutrition Research Center on Aging (HNRCA)

**Request:** \$600,000/increase in baseline funding of \$12.37 Million

**Project Description:** HNRCA is a USDA research facility operated in conjunction with Tufts University that is dedicated to improving human nutrition science. These funds are needed to prevent research cutbacks which could otherwise occur because federal operating and research support for HNRCA has not kept pace with inflation for many years.

**Potential Recipient:** University of Massachusetts - Amherst

**Location:** Amherst, Massachusetts

**Purpose:** UMASS – Amherst Ecological Conservation Initiative

**Request:** \$468,722

**Project Description:** This project will develop software tools and mapping approaches to help town managers and residents prioritize strategic parcels of land in their towns for protection and conservation. With much of Massachusetts remaining undeveloped priority land under mounting development pressure, these funds are critical to preserve local ecosystems.

**Potential Recipient:** University of Massachusetts – Amherst

**Location:** Amherst, Massachusetts

**Purpose:** Bioactive Foods Research for Health and Food Safety

**Request:** \$525,000

**Project Description:** This funding will help create the Research Center for Health and Wellness for the discovery, characterization and utilization of bioactive compounds in food specifically designed to promote health, wellness and food safety.

**Potential Recipient:** Waters Corporation

**Location:** Milford, Massachusetts

**Purpose:** USDA International Food Safety Training Institute

**Request:** \$3,344,000

**Project Description:** This funding will go to developing the International Food Safety Training Institute (IFSTI) to educate foreign government officials, industry professionals and U.S. scientists on American and international food safety standards and regulations. The goal of this program is to prevent the incidence of food supply contamination domestically by improving screening techniques on imported foods.

**Potential Recipient:** University of Massachusetts – Dartmouth

**Location:** Southeastern Massachusetts

**Purpose:** Cranberry/Blueberry Pest Control, MA

**Request:** \$160,000

**Project Description:** The requested funds will allow scientists at the University of Massachusetts to assist cranberry farmers in increasing productivity while effectively controlling pests in a more environmentally sensitive manner.

**Potential Recipient:** Massachusetts Cranberry Research Station

**Location:** Wareham, Massachusetts

**Purpose:** Massachusetts and Wisconsin Cranberry Research Initiative

**Request:** \$10,000,000

**Project Description:** The requested funds will be used for cranberry conservation work in the States of Wisconsin and Massachusetts. The project will help farmers increase cranberry production while reducing its effects on the environment.

**Potential Recipient:** A Child is Missing

**Location:** Throughout Massachusetts

**Purpose:** A Child is Missing – Massachusetts

**Request:** \$400,000

**Project Description:** This funding will support the expansion of programs in Massachusetts for A Child Is Missing (ACIM), a non-profit organization that assists law enforcement agencies in the first few hours a child, or an elderly adult, is reported missing.

**Potential Recipient:** Cape Seafoods/Northern Pelagic Group

**Location:** Boston, Massachusetts

**Purpose:** Enhancing Data Collection, Research and Assessment Capabilities for Managing the Atlantic Herring and Atlantic Mackerel Resources in the Northwest Atlantic Ocean

**Request:** \$1.6 Million

**Project Description:** This project will help develop and sustain a world-class data acquisition/analysis program to help ensure the sustainability of the Atlantic mackerel and herring fisheries well into the future. These industries are critical to the economic health of fishing communities throughout Massachusetts.

**Potential Recipient:** Center for Technology Commercialization Inc.

**Location:** Westborough, Massachusetts

**Purpose:** Massachusetts Law Enforcement Technology and Training Support Center

**Request:** \$3 million

**Project Description:** The Center for Technology Commercialization (CTC) is a non-profit

organization with extensive experience in the public safety field. CTC will use these funds to expand the services provided by the Massachusetts Law Enforcement Technology and Training Support Center (MALETTSC), which is an important resource to law enforcement agencies across the state.

**Potential Recipient:** City of Brockton

**Location:** Brockton, Massachusetts

**Purpose:** Brockton After Dark Youth Project

**Request:** \$350,000

**Project Description:** This funding will go to support the City of Brockton's summer violence prevention program known as "Brockton After Dark," and associated youth summer employment services. "Brockton After Dark" was created in 2002 to reduce serious incidents of violence among youth in Brockton during the summer months.

**Potential Recipient:** City of Brockton

**Location:** Brockton, Massachusetts

**Purpose:** Public Safety Improvements and Upgrades

**Request:** \$1,426,000

**Project Description:** The City of Brockton is seeking this funding to purchase 10 Police Cruisers, 4 additional gunfire detection systems, and related technology infrastructure upgrades to provide for public safety.

**Potential Recipient:** Coalition for Buzzards Bay

**Location:** New Bedford, Massachusetts

**Purpose:** The Buzzards Bay Center

**Request:** \$250,000

**Project Description:** This assistance is sought to support the renovation of the Coggeshall Counting House in New Bedford's Waterfront Historic District and National Park by the Coalition for Buzzards Bay to create the "Buzzards Bay Center." The Buzzards Bay Center will expand regional awareness of the challenges facing the Bay and educate and engage people of all ages in environmental issues.

**Potential Recipient:** Devereux Massachusetts

**Location:** Rutland, Massachusetts

**Purpose:** Program Wide Positive Behavior Support for At-Risk Youth in Massachusetts

**Request:** \$150,000

**Project Description:** Devereux Massachusetts will use this funding to establish a Program-Wide Positive Behavior Support (PWPBS) system for at-risk youth in Rutland, MA. Devereux Massachusetts serves male and female clients in the age range of 6-21 years with a variety of psychiatric conditions, including conduct and oppositional-defiant disorders, attention-deficit hyperactivity disorder, and post-traumatic stress disorder.

**Potential Recipient:** Essex County Sheriff's Department

**Location:** Essex County, Massachusetts

**Purpose:** Essex County Sheriff's Department Comprehensive Substance Abuse Education and Treatment Program

**Request:** \$250,000

**Project Description:** This funding is needed to combat the widespread substance abuse of opiates such as Oxycontin and Heroin, especially among teenagers, throughout Essex County, Massachusetts. This program has grown from a pilot program funded by the Office of Juvenile Justice and Delinquency Prevention in FY06 to include seven high schools in Essex County.

**Potential Recipient:** Essex County Sheriff's Department

**Location:** Middleton, Massachusetts

**Purpose:** Essex County Sheriff Information-Sharing Program, Essex County, MA

**Request:** \$250,000

**Project Description:** This funding will increase the capacity of the Essex County Sheriff's Department (ECSD) to improve the information-sharing capacity of law enforcement/public safety officials throughout Essex County. The information-sharing system will be available to all thirty-four Essex County police departments, the Massachusetts State Police, and any federal agency that wishes to utilize the network.

**Potential Recipient:** Girls Incorporated of Lynn

**Location:** Lynn, Massachusetts

**Purpose:** Phase 2 – 50 High Street Addition to Renovation Project

**Request:** \$500,000

**Project Description:** For 67 years, Girls Inc. of Lynn has responded to the changing needs of young people and our communities by providing essential resources and programs to high-risk, low-income girls and their families. This funding would go to renovate a facility in Lynn so that Girls Incorporated can expand their capacity to serve the community.

**Potential Recipient:** Women's Sports Foundation

**Location:** Boston, Massachusetts

**Purpose:** GoGirlGo! Boston Initiative

**Request:** \$600,000

**Project Description:** The GoGirlGo! Boston Initiative is dedicated to advancing the lives of girls and women through sports and fitness. GoGirlGo! is a mentoring, education and development program targeting at-risk teens to prevent dropping out, truancy, crime, violence and drug abuse by promoting participation in sports and physical activity during after school hours when teens are at the greatest risk for dysfunctional social behaviors.

**Potential Recipient:** Hampshire Educational Collaborative

**Location:** Northampton, Massachusetts

**Purpose:** ArtsInFusion Program

**Request:** \$1 Million

**Project Description:** This funding is requested to support the Hampshire Educational Collaborative's ArtsInFusion programs, which over the past three years have shown that arts education can have a very positive effect on the lives of at-risk youth by helping them develop 21<sup>st</sup> Century workforce skills and improving their engagement with academic course content.

**Potential Recipient:** The College of the Holy Cross

**Location:** Worcester, Massachusetts

**Purpose:** At Risk Youth Empowerment Initiative

**Request:** \$840,000

**Project Description:** The College of the Holy Cross is committed to investing in the empowerment and development of at-risk youth within the greater Worcester community, particularly those from low income and immigrant households. This funding would go to support Holy Cross' At-Risk Youth Empowerment Initiative that provides programming for at-risk youth with a focus on education, cultural and career opportunities.

**Potential Recipient:** Massachusetts District Attorneys Association (MDAA)

**Location:** Barnstable, Boston, Brockton, Canton, New Bedford, Northampton, Pittsfield, Salem, Springfield, Woburn, and Worcester, Massachusetts

**Purpose:** MDAA Forensic Audio/Video Processing and Analysis Systems

**Request:** \$250,000

**Project Description:** This funding will be used to purchase forensic audio/video processing and analysis systems for each of the Massachusetts District Attorneys' main offices (11 in total). Currently, the District Attorneys do not have the capacity or the ability to analyze video evidence in a manner that is fully consistent with public safety and homeland security strategies and priorities, or the resources to bridge this technology gap.

**Potential Recipient:** Massachusetts Emergency Management Agency (MEMA)

**Location:** Throughout Massachusetts

**Purpose:** Radio Communications Network Infrastructure for Community Emergency Management Directors

**Request:** \$750,000

**Project Description:** MEMA distributed VHF mobile radio control stations with power supplies to all 351 communities of the Commonwealth in 2004. The current system provides communities' emergency management/response personnel with limited coverage and functionality. The purpose of this project is to create one integrated VHF communications network that will provide statewide coverage on a scalable, interoperable wide-area platform.

**Potential Recipient:** Massachusetts Marine Fisheries Institute

**Location:** Georges Bank, Massachusetts

**Project:** Scallop Fishery Assessment (MFI)

**Request:** \$ 2 million

**Project Description:** The Massachusetts Marine Fisheries (MFI) Institute needs this funding to continue its important research into the scallop fishery. MFI will focus its research activity on scallops and oceanographic modeling of Georges Bank and the Gulf of Maine. MFI has undertaken a number of research initiatives with exemplary results and findings in this field, which are consistent with Congress' mandate that fisheries develop more comprehensive management approaches to promote resource sustainability.

**Potential Recipient:** Museum of Science, Boston

**Location:** Boston, Massachusetts

**Purpose:** Charles Hayden Planetarium Enhancements

**Request:** \$750,000

**Project Description:** This funding is requested to help modernize the Charles Hayden Planetarium, the Museum of Science's oldest and best known venue for the public to learn about the cosmos, and how space phenomena such as solar activity, asteroids, comets and supernovae affect life on Earth. Over 50 years, millions of Museum patrons have visited the planetarium and benefitted from the experience, and this funding will help provide for technology upgrades.

**Potential Recipient:** My Turn Inc.

**Location:** Fall River, New Bedford, Fitchburg and Leominster, Massachusetts

**Purpose:** America's Youth Teenage Unemployment Reduction Network

**Request:** \$1.5 Million

**Project Description:** This funding is requested to support the expansion of programs operated by My Turn Inc, a community-based, private, non-profit youth development agency founded in 1984, that is dedicated to providing school-to-work programs for in-school and out-of-school youth. My Turn works to break the cycle of poverty in a young person's life by developing his or her potential to acquire the education, life skills, confidence and work experience needed to achieve a productive adulthood, gainful employment and upward mobility.

**Potential Recipient:** My Turn Inc.

**Location:** Fall River, Massachusetts

**Purpose:** Out-of-School Youth Intervention Program

**Request:** \$500,000

**Project Description:** This funding would be used to support ongoing efforts in Fall River, Massachusetts operated by My Turn Inc. to break the cycle of poverty and provide employment training, education, and social and life skills development programs for at-risk youth. With this funding, My Turn hopes to reach over 170 Fall River youth in the coming year.

**Potential Recipient:** New Bedford Police Department

**Location:** New Bedford, Massachusetts

**Purpose:** ShotSpotter Gunshot Location System

**Request:** \$950,000

**Project Description:** This funding would go to the New Bedford Police Department to purchase the ShotSpotter Gunshot Location System (GLS). NBPD believes a GLS could be an essential tool in the City's battle against crime because the system has been shown to be effective in other communities nationwide.

**Potential Recipient:** New England Aquarium

**Location:** Boston, Massachusetts

**Purpose:** Consortium for Wildlife Bycatch Reduction

**Request:** \$2 million

**Project Description:** This funding would go to study on the causes and nature of wildlife entanglement in fishing gear, which is often referred to as "bycatch," and is considered one of the principal threats to marine biodiversity worldwide. Of particular concern is the bycatch of highly threatened marine mammals -- sea birds, sea turtles, pelagic fishes -- and benthic invertebrates which remains high worldwide. Without a solution to the problem, many of these species could face extinction.

**Potential Recipient:** School for Marine Science & Technology (SMAST)

**Location:** New Bedford, Massachusetts

**Purpose:** New England Multi-Species Surveys and Development

**Request:** \$3 million

**Project Description:** These funds are sought to expand and continue the federally supported ambitious research programs of the School for Marine Science and Technology (SMAST) in the areas of fisheries science and oceanography. SMAST is focusing on groundfish, lobster, and oceanographic modeling of Georges Bank and the Gulf of Maine. This funding will help SMAST continue and extend past activities focused on working with the fishing industry to improve fishery management and fisheries participation in the management program.

**Potential Recipient:** NOAA/NMFS

**Location:** Northeast Regional Office, Gloucester, Massachusetts

**Purpose:** New England Groundfish Fishery Recovery

**Request:** \$124,500,000

**Project Description:** This funding is critical to sustaining the New England groundfish fishery which is on the brink of collapse due to the current economic crisis and severe new catch restrictions. Unless assistance is provided to reduce capacity, transition to sector-based management, improve catch monitoring, and strengthen stock survey data, this important and historic industry will continue its decline, with dire economic consequences for thousands of fishing families across New England.

**Potential Recipient:** Northeast Coastal Monitoring Collaborative

**Location:** Provincetown, Massachusetts

**Purpose:** Northeast Coastal Monitoring Collaborative

**Request:** \$1,840,000

**Project Description:** This funding is requested to support the work of the Northeast Coastal Monitoring Collaborative, a collection of some of the most dynamic and innovative organizations in New England dedicated to the coastal health of the region. The data and analysis produced by this collaboration will have great utility for many coastal managers by identifying nonpoint pollution sources, areas of focus for environmental action/restoration, and mapping the littoral zone as impacted by sea level rise.

**Potential Recipient:** North Worcester County Drug Task Force

**Location:** Gardner, Westminster, Fitchburg, Winchendon, Ashburnham, Lunenburg, Leominster, Hubbardston, and Clinton, MA

**Purpose:** North Worcester County Drug Task Force Interoperable Credentialing Crime Scenes and Access Control Project

**Request:** \$800,000

**Project Description:** This funding will support the development of a credentialing system for the North Worcester County Drug Task Force (NWCDF), a consortium of municipal law enforcement agencies that oversees drug-related criminal enforcement and emergency response over a 9-town area of approximately 277 square miles and comprising nearly 150,000 residents. The importance of this system is that it would provide law enforcement personnel, for the first time, with definitive proof of their authority when responding in mutual aid situations in any one

of the consortium's 9 towns -- Gardner, Westminster, Fitchburg, Winchendon, Ashburnham, Lunenburg, Leominster, Hubbardston, and Clinton.

**Potential Recipient:** Phoenix House

**Location:** Springfield, Massachusetts

**Purpose:** Phoenix House Drug Treatment Technology Enhancement Initiative

**Request:** \$750,000

**Project Description:** This funding is for the Phoenix House in Springfield, Massachusetts to expand their clinical management system to allow Phoenix House staff to better help transform the lives of those in recovery from drug and alcohol addiction. By incorporating state-of-the-art case administration and management technologies, Phoenix House seeks to improve the efficiency of its delivery of service, improve patient outcomes, and assist more of those in need of drug and alcohol treatment services.

**Potential Recipient:** Roca Inc.

**Location:** Chelsea, Massachusetts

**Purpose:** High-Risk Youth Intervention Model (Violence Intervention)

**Request:** \$250,000

**Project Description:** Founded in 1988, Roca is a youth development organization committed to serving the most disenfranchised and disengaged young people ages 14-24 in the communities of Chelsea, Revere, East Boston, and Charlestown, MA. The goals of this funding request are to intervene with 75-100 high-risk area youth, ages 14-24, through their High Risk Youth Intervention Model, reduce recidivism, crime, and promote educational and social achievement.

**Potential Recipient:** Roca Inc.

**Location:** Throughout Massachusetts

**Purpose:** Statewide Transitional Employment Pilot for High-Risk Youth

**Request:** \$500,000

**Project Description:** This funding would go to further deploy the Roca transitional employment model for high-risk youth and young adults across the state. Roca has developed a unique approach to the training of qualified, entry-level employees and reducing youth crime in its existing program area north of Boston, and this funding will be used to expand the reach of Roca's services throughout the state.

**Potential Recipient:** Sea Lab/New Bedford Public Schools

**Location:** New Bedford, Massachusetts

**Purpose:** Partnership for Marine Science

**Request:** \$50,000

**Project Description:** Sea Lab/New Bedford Public Schools and the Sea Research Foundation will use the requested funding to dramatically increase the number of students participating in innovative marine science research programs that include science expeditions being conducted around the world. By exposing them to the research being conducted by marine scientists in and around their hometown, Sea Lab and the New Bedford Public Schools aim to promote a life long appreciation and understanding of science among the participating students.

**Potential Recipient:** Southwick Police Department

**Location:** Southwick, Massachusetts

**Purpose:** Southwick Emergency Agencies Enhanced Communication System

**Request:** \$250,000

**Project Description:** The requested funding would support the installation of modern microwave radio technology to be utilized not only by the Southwick Police Department, but also by the fire, emergency management, and public works departments as well as the town's general administrative offices.

**Potential Recipient:** Stellwagen Bank National Marine Sanctuary

**Location:** Scituate, Massachusetts

**Purpose:** Collaboration with Fishing Industry to Collect and Dispose of Marine Debris

**Request:** \$600,000

**Project Description:** The requested funding would support the Stellwagen Bank National Marine Sanctuary's (SBNMS) ongoing program to collect and or recycle marine debris and lost fishing gear. Expanded resources would allow them to achieve a wider cleanup effort with the use of commercial vessels.

**Potential Recipient:** Stop It Now!

**Location:** Northampton, MA

**Project:** Stop It Now! Helpline Expansion

**Request:** \$500,000

**Project Description:** Stop It Now! offers free services to help adults who have questions and concerns about sexual abuse of children. The Helpline service was established in 1995 and the demand for its services has increased tremendously -- annual calls are up 160 percent over the past six years. The Online Help Center provides adults with guidance, advice, and resources 24 hours a day, 7 days a week.

**Potential Recipient:** Suffolk University

**Location:** Boston, Massachusetts

**Purpose:** Juvenile Justice Center, Suffolk University Law School

**Request:** \$840,000

**Project Description:** This funding will go to the Juvenile Justice Center at Suffolk University Law School (JJC) to provide legal and support services to Boston's indigent youth and their families.

**Potential Recipient:** Thermo Fisher Scientific

**Location:** Billerica and Waltham, Massachusetts

**Purpose:** Port of Entry Lead Toy Screening Project

**Request:** \$3 million

**Project Description:** This funding is requested to provide the Consumer Product Safety Commission (CPSC) with the tools needed to test for lead in paint and in plastics -- at the Port of Entry in the United States, on store shelves, and in laboratory settings. Specifically, it will be used by CPSC to acquire "X-Ray Fluorescence" technology systems, which is a quick and portable technology that has been recognized by CPSC.

**Potential Recipient:** University of Massachusetts - Amherst

**Location:** Amherst, Massachusetts

**Purpose:** Large Millimeter Telescope (LMT)

**Request:** \$1.2 Million

**Project Description:** University of Massachusetts-Amherst (UMASS) is participating in a major scientific initiative to build the world's largest millimeter-wave radio telescope with an international partner (Mexico). The Mexican Government is providing most of the funding for the telescope, the requested funds would pay for salaries at UMASS to provide the technical and scientific expertise.

**Potential Recipient:** University of Massachusetts Medical School

**Location:** Worcester, Massachusetts

**Purpose:** University of Massachusetts Medical School's Albert "Albie" Sherman Center Project

**Request:** \$5 million

**Project Description:** UMMS is embarking on a campus-wide initiative to translate pioneering basic science discoveries into innovative therapeutics and treatments that can serve hospital patients. This funding is requested to help expand UMASS' facilities to conduct this innovative translational research, which will take place at the UMASS Advanced Therapeutics Cluster (UMATC).

**Potential Recipient:** Wheelock College

**Location:** Boston, Massachusetts

**Purpose:** Math and Science Learning Community

**Request:** \$860,000

**Project Description:** This funding is requested to support Wheelock College's Math and Science Education Initiative (MSEI), which provides math and science in-service training for preschool to 6th grade teachers in order to improve math and science instruction in the classroom and inspire student interest in these subjects at a young age. Specifically, Wheelock intends to use this funding to more deeply engage schools, community based preschools, and supplemental education providers to develop a Math and Science Learning Community.

**Potential Recipient:** NOAA/NMFS

**Location:** Northeast Regional Office, Gloucester, Massachusetts

**Purpose:** New England Lobster Trap Buyback

**Request:** \$3,000,000

**Project Description:** This \$3 million request is for a buyback program to reduce lobster traps for the lobster fishermen of Area 3, off the shore of New England -- an amount that should remove approximately 30,000 traps from the fishery. NMFS is expected to implement a transferability plan in 2010-2011 which will allow fishermen to sell traps to one another, which should result in a passive reduction of lobster traps, but at a level that the industry believes will be inadequate to achieve a target of 50% reduction of traps in Area 3. By providing this funding, that goal can be met.

**Potential Recipient:** Massachusetts Technology Collaborative

**Location:** Charlestown, MA

**Purpose:** Renewable Energy Economic Development Center

**Request:** \$5 million

**Project Description:** The requested funds are intended to assist in financing the construction of a new business incubator/renewable energy technology development center. The development of this center is integral to accelerating the development of Massachusetts as one of the nation's leading areas for renewable energy research and development, attracting private investment and high-skilled jobs, and helping to reduce America's dependence on foreign oil.

**Potential Recipient:** Urban League of Eastern MA

**Location:** Boston, MA

**Purpose:** Urban League of Eastern Massachusetts Economic Development Center Expansion

**Request:** \$2 million

**Project Description:** The requested funds are intended to assist in financing the construction activities associated with the expansion and redevelopment an Urban League owned facility in Boston, MA. This additional space will accommodate the expansion of job training programs and business development programs in one of Greater Boston's most economically challenged areas, which has been hit particularly hard by the recent global economic crisis.

**Potential Recipient:** Lawrence CommunityWorks

**Location:** Lawrence, MA

**Purpose:** Lawrence CommunityWorks Union Crossing Mill Redevelopment

**Request:** \$1 million

**Project Description:** The requested funding will be used to finance the redevelopment construction costs associated with the transformation of a former textile mill into a mixed-use commercial development that will contribute to the ongoing economic revitalization of downtown Lawrence, one of Massachusetts most economically challenged communities. This investment will help provide jobs, housing, and business development space for area companies and attract outside private investment.

**Potential Recipient:** Everybody Wins! DC

**Location:** Washington, DC

**Purpose:** Everybody Wins! DC Power Lunch Youth Mentoring and Reading Program

**Request:** \$500,000

**Project Description:** The requested funding will be used to ensure that more at-risk students in the District of Columbia can participate in the Power Lunch tutoring, mentoring, and reading program that has been a success in Washington, DC since 1995.

**Potential Recipient:** Clean Earth Technologies

**Location:** Boston, MA

**Purpose:** Ambulance Decontamination Equipment for Chemical and Biological Hazards

**Request:** \$695,000

**Project Description:** The project will develop first-responder vetted procedures and a prototype decontamination kit for ambulances.

**Potential Recipient:** UMass Memorial Health Care

**Location:** Worcester, MA

**Purpose:** Health Information Technology Upgrades at UMass Memorial Health Care

**Request:** \$2,000,000

**Project Description:** This funding request would support the installation of an ambulatory electronic medical records system to improve patient care delivery and overall medical error reduction. This system is necessary to ensure compliance with the Health Insurance Portability and Accountability Act of 1996.

**Potential Recipient:** University of Massachusetts-Boston

**Location:** Boston, MA

**Purpose:** UMass GoKids Initiative to Support the Expansion of Health and Physical Activity Programs for At-risk Youth

**Request:** \$1,000,000

**Project Description:** These funds would be used to provide participants, primarily adolescents ages 8-18, with personalized instruction and support to become more physically active, improve fitness, and gain self-confidence. These funds will also be used by UMASS-Boston staff for equipment, staffing, and health professional training to operate programs.

**Potential Recipient:** Brookline Community Mental Health Center

**Location:** Brookline, MA

**Purpose:** Improving Access to the Safety-Net of Mental Health Services for Low-Income and High-Risk Women

**Request:** \$500,000

**Project Description:** This funding would be used to support safety-net services for low-income and high-risk women, including free or reduced-fee visits, and group therapy for 200 high-risk women and teens. It would also provide outreach and group sessions for up to 300 women and teen girls who are recovering from violence or domestic abuse.

**Potential Recipient:** International Rett Syndrome Foundation

**Location:** Norwood, MA

**Purpose:** Rett Syndrome Education Database and Research Support

**Request:** \$500,000

**Project Description:** The funding would be used to support Rett Syndrome education, awareness and outreach efforts for patients, health professionals, and the public. It will also support the integration of databases on Rett Syndrome for families dealing with this debilitating disorder.

**Potential Recipient:** Clark University

**Location:** Worcester, MA

**Purpose:** Technology Infrastructure Support

**Request:** \$1,000,000

**Project Description:** This funding will support Clark's efforts to upgrade technology in the University's classrooms to support the changing needs of professors and students. It will also improve the University's capacity to conserve energy resources by upgrading and consolidating the University's energy management system into one centralized system.

**Potential Recipient:** National Braille Press

**Location:** Boston, MA

**Purpose:** Affordable Refreshable Braille Notetaker for Blind Students

**Request:** \$1,119,000

**Project Description:** This funding will provide support to research, develop and deploy low-cost, refreshable Braille notetakers. These products will enhance the learning capability of blind school-aged children, and improve their literacy rates.

**Potential Recipient:** Brockton Area Private Industry Council, Inc.

**Location:** Brockton, MA

**Purpose:** The Gateway Project for Workforce Development Program for At-Risk Youth.

**Request:** \$1,200,000

**Project Description:** This funding will support a comprehensive transitional jobs program called the Gateway Project, which provides skill development, job placement, and comprehensive reintegration services for program participants.

**Potential Recipient:** SouthCoast Health System

**Location:** New Bedford, MA

**Purpose:** SouthCoast Health System's Radiation Oncology Program

**Request:** \$2,000,000

**Project Description:** The funding will support the construction of a new state-of-the-art facility with full range of cancer care services including medical oncology, chemotherapy, laboratory services, nutrition counseling, and social services. This center is badly needed in Southeastern Massachusetts because today many area residents must travel more than 50 miles to Boston for cancer care.

**Potential Recipient:** Caring Health Center, Inc.

**Location:** Springfield, MA

**Purpose:** Wellness Center

**Request:** \$149,000

**Project Description:** These funds will be used to develop a wellness team to provide effective wellness programming, such as nutrition, exercise, and social support, for Caring Health's patients.

**Potential Recipient:** Assumption College

**Location:** Worcester, MA

**Purpose:** Technology Infrastructure to Implement a Portal System and Web Redesign

**Request:** \$750,000

**Project Description:** This funding will help fund the development of a portal system that will provide improved online services with easy database access to students and the entire Assumption Community. The inclusion of an e-portfolio program will provide students with an effective means of showcasing their academic and community service work for potential employers and graduate schools.

**Potential Recipient:** WGBH

**Location:** Brighton, MA

**Purpose:** The "Design Squad" Engineering Educational Program

**Request:** \$500,000

**Project Description:** This funding will help to support production costs associated with an outreach campaign and website designed to inspire a new generation of engineers.

**Potential Recipient:** Great Brook Valley Health Center

**Location:** Worcester, MA

**Purpose:** Facility Improvements to Great Brook Valley Health Center and Framingham Community Health Center

**Request:** \$25,547,000

**Project Description:** This funding would help construct a new facility to house the Framingham Community Health Center's medical and dental departments. It would also be used to undertake renovations to create, equip, and furnish additional clinical space at the Great Brook Valley Health Center's Worcester facility.

**Potential Recipient:** Quinsigamond Community College

**Location:** Worcester, MA

**Purpose:** Quinsigamond Community College Satellite Campus

**Request:** \$1,000,000

**Project Description:** This funding would be used to develop satellite campuses with proper educational technology infrastructure. These campuses will enhance the educational and regional workforce development efforts in Worcester County.

**Potential Recipient:** Westfield State College

**Location:** Westfield, MA

**Purpose:** Westfield State College Chemistry Laboratory Renovation

**Request:** \$1,000,000

**Project Description:** This funding will be used to reconfigure and equip two 36-year-old laboratories to accommodate more science students. This will enable the college to meet student demand and labor supply needs now and into the future.

**Potential Recipient:** National Association of Hispanic Nurses

**Location:** Nationwide

**Purpose:** National Association of Hispanic Nurses Mentorship Program

**Request:** \$1,500,000

**Project Description:** The funding will be used to expand the mentorship program that will identify and enhance Hispanic student's interests in the nursing profession. As part of the program NAHD will also support students from nursing school through the time when they first secure employment.

**Potential Recipient:** Massachusetts Manufacturing Extension Partnership

**Location:** Worcester, MA

**Purpose:** New England Mobile Outreach Skills Training Program

**Request:** \$5,000,000

**Project Description:** This funding will be used to deploy the Mobile Outreach Skills Training Program as an immediate job creation solution. Up to 500 individuals from disadvantaged populations would be trained and placed in newly created vacant jobs as a result of this investment.

**Potential Recipient:** Laboure College

**Location:** Dorchester, MA

**Purpose:** Programs to Increase the Number of Doctorally Credentialed Nursing Faculty

**Request:** \$500,000

**Project Description:** This funding will be used to support doctorate education for approximately 17 faculty members at Laboure College. This advanced education will help retain faculty and better prepare future nurses for an increasingly complex profession.

**Potential Recipient:** Massachusetts College of Pharmacy and Health Sciences

**Location:** Boston, MA

**Purpose:** Health Education and Resource Center

**Request:** \$750,000

**Project Description:** These funds will support the expansion of the medication information and distance learning activities of the Massachusetts College of Pharmacy and Health Sciences' Health Education and Resource Center.

**Potential Recipient:** Massachusetts College of Pharmacy and Health Sciences

**Location:** Boston, MA

**Purpose:** Center for Drug Information and Natural Products

**Request:** \$750,000

**Project Description:** These funds would be used to expand the Center for Drug Information and Natural Products by supporting the acquisition of instructional technology at the Boston Campus.

**Potential Recipient:** Benjamin Franklin Institute of Technology, Boston, MA

**Location:** Boston, MA

**Purpose:** Ophthalmic Assistant Training Program to Meet the Needs of Patients and the Workforce

**Request:** \$250,000

**Project Description:** These funds would go to support a program to help serve disadvantaged populations in Massachusetts looking for career training and advancement. Specifically, these funds will be used to provide a one- year, two-semester certificate program for Ophthalmic Assistant Training for approximately 30-40 students annually.

**Potential Recipient:** Endicott College

**Location:** Beverly, MA

**Purpose:** Endicott College Science and Technology Center

**Request:** \$1,500,000

**Project Description:** This funding would provide support for the acquisition of educational equipment including new teaching and research lab equipment used by faculty and students in the new Science and Technology Discovery Center.

**Potential Recipient:** JFYNetworks

**Location:** Boston, MA

**Purpose:** JFYNetwork's Academic Support for Adequate Yearly Progress

**Request:** \$300,000

**Project Description:** This funding would provide a comprehensive approach to math, science and english language arts instruction. It will supplement and support regular classroom instruction to improve the scores and prepare under performing students for higher education opportunities.

**Potential Recipient:** Halcyon Center

**Location:** Attleboro, MA

**Purpose:** Employment Support Program for Persons with Asperger's Syndrome

**Request:** \$738,000

**Project Description:** This funding will be used to develop a therapeutic employment support group for adults with Asperger's Syndrome. The program will combine job skills training with individual and group psychotherapy.

**Potential Recipient:** College of the Holy Cross

**Location:** Worcester, MA

**Purpose:** College of the Holy Cross Technology and Educational Enhancement Initiative

**Request:** \$1,000,000

**Project Description:** This funding will be used to upgrade the College's science building with cutting-edge technology and instrumentation that will expand partnerships between Holy Cross and Worcester's urban school system.

**Potential Recipient:** Perkins School for the Blind

**Location:** Watertown, MA

**Purpose:** Help for Children Who are Deaf-blind

**Request:** \$225,000

**Project Description:** These funds would provide training and support for teachers and families with the goal of improving the lives of all children who are deaf-blind and creating hopeful futures for them.

**Potential Recipient:** Salem State College

**Location:** Salem, MA

**Purpose:** Occupational Therapy Community Outreach and Treatment Program

**Request:** \$277,000

**Project Description:** This funding will be used to purchase equipment for a mobile sensory room unit that will serve as a regional resource to community organizations and medical professionals. Additionally, the mobile laboratory will be used in student coursework, faculty research and service learning projects.

**Potential Recipient:** Holyoke Medical Center

**Location:** Holyoke, MA

**Purpose:** Holyoke Medical Center Equipment Upgrades

**Request:** \$1,000,000

**Project Description:** These funds will be used to support the acquisition of digital mammography equipment, which is critical to HMC's mission of providing high-quality health care in a community setting.

**Potential Recipient:** Massachusetts League of Community Health Centers

**Location:** Boston, MA

**Purpose:** Development of a Community Health Information Association Benchmark Quality Reporting Tool

**Request:** \$580,000

**Project Description:** This funding will be used to expand the availability of a health care reporting system in a secure data warehouse. This will improve the management of patient care and help document quality of care to ensure accountability.

**Potential Recipient:** Massachusetts League of Community Health Centers

**Location:** Boston, MA

**Purpose:** Community Health Workforce Training and Development Program

**Request:** \$600,000

**Project Description:** This funding would be used to expand health care workforce development initiatives focusing on clinical career tracks in nursing and other allied health professions. Massachusetts League of Community Health Centers will work with the East Boston Neighborhood Health Center to further develop this program.

**Potential Recipient:** Boston Foundation for Sight

**Location:** Needham Heights, MA

**Purpose:** Improving Access to Vision-Restoring Technology

**Request:** \$750,000

**Project Description:** This funding would provide free care to approximately 100 patients suffering from corneal disease and eye injuries. Restoring patient's vision allows them to return to work and regain their independence.

**Potential Recipient:** Anna Jacques Hospital

**Location:** Newburyport, MA

**Purpose:** Health Information Technology and Infrastructure to Improve Patient Care

**Request:** \$1,000,000

**Project Description:** Anna Jacques will use this requested funding to acquire information technology needed to improve the quality and lower the cost of patient care.

**Potential Recipient:** Whittier Street Health Center

**Location:** Roxbury, MA

**Purpose:** Whittier Street Health Center Expansion and Relocation

**Request:** \$1,000,000

**Project Description:** These funds would be used to build a state-of-the-art, 60,000 square-foot medical facility that will allow Whittier to expand its health care and social services.

**Potential Recipient:** Clark Art Institute

**Location:** Williamstown, MA

**Purpose:** Campus Enhancement and Expansion Project

**Request:** \$1,650,000

**Project Description:** These funds will be used to acquire information technology systems

needed to support a new visitor center and renovations to the Clark Institute's Manton Research Center.

**Potential Recipient:** U.S. Genomics, Inc.

**Location:** Woburn, MA

**Purpose:** Development of Infectious Disease Detection Equipment

**Request:** \$26,000,000

**Project Description:** These funds would be used to develop technology to detect and identify a range of infectious organisms in a single comprehensive test. By reducing the cost and improving the efficiency of testing, the health care industry could cut costs and improve early diagnosis of diseases.

**Potential Recipient:** The School at Jacob's Pillow

**Location:** Becket, MA

**Purpose:** Youth Education Programming

**Request:** \$500,000

**Project Description:** The purpose of this request is to expand arts education opportunities for youth. It will build on The School at Jacob's Pillow's current offerings, including summer programs, and after-school programs.

**Potential Recipient:** University of Massachusetts-Lowell

**Location:** Lowell, MA

**Purpose:** UMass Lowell Cooperative Education Program

**Request:** \$1,200,000

**Project Description:** The requested funding will be used to establish a cooperative education program at the University of Massachusetts Lowell for both the undergraduate and graduate levels in areas that are vital to economic development. The funding would permit the school to hire 6 Coop professionals. In addition, this funding would provide Coop stipends for students to work in start-up firms, which will allow students to learn in entrepreneurial environments as well as assisting in the development of start-ups.

**Potential Recipient:** America SCORES New England

**Location:** Boston, MA

**Purpose:** America SCORES New England Elementary and Middle School Expansion Project

**Request:** \$150,000

**Project Description:** These funds would be used to expand the America SCORES New England after-school program to 4-6 additional elementary and middle schools in Boston. The America SCORES model uses soccer, creative writing, and community service to improve academic achievement, health and well-being among participants.

**Potential Recipient:** Lesley University

**Location:** Cambridge, MA

**Purpose:** Lesley University's Library Modernization

**Request:** \$1,460,000

**Project Description:** These funds would be used to procure equipment to create a state-of-the-

art 'information commons' to bring together the technology and expertise necessary to support the information needs of students, faculty and alumni across the country.

**Potential Recipient:** National Tooling and Machining Foundation

**Location:** Nationwide

**Purpose:** Precision Jobs for American's Manufacturers

**Request:** \$5,000,000

**Project Description:** These funds would be used to recruit, train, place, and retain highly skilled workers in the metalworking industry.

**Potential Recipient:** Massachusetts General Hospital

**Location:** Charleston, MA

**Purpose:** Development of a Program using a Generic Drug to Treat and Cure Type 1 Diabetes and Other Autoimmune Diseases

**Request:** \$14,500,000

**Project Description:** This funding will be used for the development of generic drugs and low-cost treatments to combat type 1 diabetes and other diseases.

**Potential Recipient:** Experience Corps

**Location:** Nationwide

**Purpose:** Senior Citizen Civic Engagement Expansion Program

**Request:** \$10,000,000

**Project Description:** These funds would be used to expand public service and civic engagement programming activities for senior citizens. Experience Corps has a strong history of developing and administering programs through which senior citizens can make a difference in the lives of their communities and these funds will be used to expand such civic engagement programs nationally.

**Potential Recipient:** Boston College

**Location:** Chestnut Hill, MA

**Purpose:** Institute for Integrated Sciences

**Request:** \$5,000,000

**Project Description:** These funds would be used to acquire technology needed to support the establishment of an Institute of Integrated Science that will encompass the Center for Molecular Biology, the Center Synthetic Organic Chemistry, and the Center for Complex Materials.

**Potential Recipient:** Middlesex Community College

**Location:** Lowell, MA

**Purpose:** The Dental Hygiene Clinic Modernization Project

**Request:** \$900,000

**Project Description:** These funds would be used to modernize the college's dental hygiene clinic, which provides free and low-cost dental services to uninsured seniors and children. The clinic also trains students for careers in the allied health sectors.

**Potential Recipient:** Windemere Rehabilitation Facility

**Location:** Oak Bluffs, MA

**Purpose:** Windemere Rehabilitation Facility Improvements

**Request:** \$1,000,000

**Project Description:** These funds would be used to renovate and repair the facility to keep it structurally sound and to acquire equipment needed to continue providing quality patient care.

**Potential Recipient:** Lahey Clinic Medical Center, Inc.

**Location:** Burlington, MA

**Purpose:** Emergency Department and Level II Trauma Center Renovation and Expansion

**Request:** \$3,200,000

**Project Description:** These funds would be used to support the acquisition and installation of an air handling system in the emergency department to protect against airborne diseases. The funds will also be used to enhance security, expand patient treatment areas and create a separate decontamination module.

**Potential Recipient:** Jumpstart for Young Children, Inc.

**Location:** Boston, MA

**Purpose:** Jumpstart Worcester's Expanded Early Childhood Education Programs

**Request:** \$100,000

**Project Description:** These funds would be used to initiate a program for high-quality early childhood education for low-income preschoolers in Worcester, Massachusetts.

**Potential Recipient:** From the Top

**Location:** Boston, MA

**Purpose:** Youth Education and Outreach Program

**Request:** \$500,000

**Project Description:** These funds would be used to expand From the Top's arts education programs and outreach programs in Massachusetts. These programs utilize peer role modeling to encourage students to engage more deeply with the arts and to develop the passion, discipline and focus to achieve their goals.

**Potential Recipient:** Lesley University

**Location:** Cambridge, MA

**Purpose:** National Center for Teachers and School Leaders

**Request:** \$1,400,000

**Project Description:** These funds would be used to develop the National Center for Teachers and School Leaders Program to respond to the needs of teachers, school districts, and states. The Center would serve as a national and state education partnership model by helping school districts establish annual, measurable objectives for student achievement.

**Potential Recipient:** University of Massachusetts-Boston

**Location:** Boston, MA

**Purpose:** Center for Urban Health Disparities

**Request:** \$1,870,000

**Project Description:** These funds would be used to launch an interdisciplinary research center to facilitate a comprehensive approach to health care reform and to addressing health disparities.

This work will address issues such as health care delivery, access and quality care, and health disparities based on race, ethnicity, gender, class and age.

**Potential Recipient:** Silent Spring Institute

**Location:** Newton, MA

**Purpose:** Continued Development of Cancer Research Programs

**Request:** \$900,000

**Project Description:** These requested funds will go to support research and community education about endocrine disrupting compounds and carcinogens from sources including air and water pollution, building materials, detergents, plastics, pesticides, and cosmetics and their possible links to some types of cancer.

**Potential Recipient:** Lowell General Hospital

**Location:** Lowell, MA

**Purpose:** Lowell General Hospital Facility Expansion Project

**Request:** \$2,000,000

**Project Description:** These funds are requested to build a new facility for Lowell General Hospital to meet the increasing patient and structural demands, improve delivery of care efficiency, and expand patient care areas.

**Potential Recipient:** Museum of Science, Boston

**Location:** Boston, MA

**Purpose:** School Leadership and Teacher Training in Technology and Engineering Education

**Request:** \$500,000

**Project Description:** These funds will be used to expand leadership and teacher training programs to promote the adoption of best practices in engineering education across Massachusetts.

**Potential Recipient:** Museum of Fine Arts, Boston

**Location:** Boston, MA

**Purpose:** The Preserving America's Heritage Project

**Request:** \$1,250,000

**Project Description:** These funds would be used to support the expansion of American art exhibits by helping MFA acquire needed equipment and infrastructure technology systems. This overall expansion project will allow the museum to display thousands of pieces of American art from the Museum's encyclopedic collection, and to treat, restore, and prepare monumental artworks for presentation.

**Potential Recipient:** Caring Health Center, Inc.

**Location:** Springfield, MA

**Purpose:** Urgent Care Program Support

**Request:** \$235,000

**Project Description:** These funds will be used to cover ongoing operating costs of the urgent care program for doctors, dentists and staff to serve walk-in patients as efficiently as possible.

**Potential Recipient:** Fate Therapeutics

**Location:** Boston, MA

**Purpose:** Research in Regenerative Medical Approaches

**Request:** \$3,800,000

**Project Description:** These funds will be used to advance laboratory research into iPSC technology, which aids in the development of regenerative medicine and therapeutics for diseases.

**Potential Recipient:** Massachusetts Museum of Contemporary Art Foundation, Inc.

**Location:** North Adams, MA

**Purpose:** Berkshire Art, Archive and Digitization Center

**Request:** \$5,500,000

**Project Description:** These funds will support the acquisition of equipment needed for the Berkshire Art, Archive & Digitization Center. This project will also provide technical and logistical support services such as below-market art digitization and art handling and archival storage for the regional not-for-profit cultural art sector.

**Potential Recipient:** Cure Alzheimer's Fund

**Location:** Wellesley Hills, MA

**Purpose:** The Alzheimer's Genome Project

**Request:** \$750,000

**Project Description:** These funds will support the extension of the Fund's Genome Project, which seeks to discover and map new genes associated with Alzheimer's disease. The Genome Project accelerates the process for development of new therapeutic interventions for the disease.

**Potential Recipient:** James Madison Memorial Fellowship Foundation

**Location:** Washington, DC

**Purpose:** Expansion of Constitutional History Fellowships for America's School Teachers

**Request:** \$25,000,000

**Project Description:** This funding will enable the James Madison Memorial Fellowship Foundation program, through which one high school civics teacher from every state is permitted to attend a comprehensive Constitutional History program and receive an educational stipend each year, to double its program size to serve two teachers per state per year. Created by Congress in 1986 as an enduring celebration of the bicentennial of the US Constitution, the James Madison Memorial Fellowship Foundation was provided with a single appropriation of \$20 million at that time, which it has invested wisely and prudently in the 23 intervening years. Despite the soundness of its investments and aggressive fundraising, the Foundation cannot meet its goal of serving two teachers per state, due to the rate of increase in the cost of higher education. With another one time appropriation of \$25 million, the Foundation estimates it can safely and securely double its programming for decades to come.

**Potential Recipient:** Becker College

**Location:** Worcester, MA

**Purpose:** Becker College Nursing Initiative

**Request:** \$750,000

**Project Description:** This funding will support the expansion of advanced curriculum for

Registered Nursing and Bachelor of Science in Nursing programs at Becker College. The goal of this program is to double enrollment within two years, enhance labs, and fund a revolving loan fund.

**Potential Recipient:** PointCare Technologies

**Location:** Marlborough, MA

**Purpose:** Continued Development of Portable, Durable Testing Equipment for HIV/AIDS and Other Infectious Diseases

**Request:** \$750,000

**Project Description:** These funds will be used to expand deployment of fully mobile CD4 testing and a hematology monitoring system that provides a near-patient diagnostic solution for HIV management at remote and resource limited sites. It will help make an enormous contribution in the President's Emergency Plan For AIDS Relief countries.

**Potential Recipient:** Simmons College

**Location:** Boston, MA

**Purpose:** The Simmons Longitudinal Study on the Influence of Factors on Public Health

**Request:** \$300,000

**Project Description:** These funds are requested to analyze data from a Massachusetts community study of young people ages 5-30, looking at the role of genetic, biological, and environmental influences on health. The results of the study will be disseminated in professional journals, conferences and popular media.

**Potential Recipient:** Brain Tumor Foundation

**Location:** New York, NY

**Purpose:** Expansion of Brain Tumor Early Detection Programs

**Request:** \$500,000

**Project Description:** These funds would be used to expand the Brain Tumor Foundation's early detection program in Massachusetts and Rhode Island. This funding will be used to acquire equipment and to provide training.

**Potential Recipient:** Barn-Raising.org, Inc.

**Location:** Wayland, MA

**Purpose:** Continued Development of Barn-Raising Employment Programs

**Request:** \$200,000

**Project Description:** These funds would be used to employ staff, specifically Barn Raising facilitators, who will run the Barn Raising program throughout New England. This program will enable states to place more unemployed people in new jobs.

**Potential Recipient:** Jewish Family Services of the North Shore

**Location:** Salem, MA

**Purpose:** North Shore Naturally Occurring Retirement Community Program

**Request:** \$200,000

**Project Description:** These funds would be used to continue project activities, which help older seniors to continue living in their own homes by providing a comprehensive social service delivery approach in local communities.

**Potential Recipient:** Massachusetts 2020

**Location:** Boston, MA

**Purpose:** Massachusetts Expanded Learning Time Initiative

**Request:** \$1,000,000

**Project Description:** These funds are requested to help Massachusetts 2020 work with school districts and schools to plan and implement the difficult process of redesigning the school day and adding more instructional time to provide a more well-rounded education for all students. These funds would be used for high quality technical assistance in the implementation of this program in over 50 schools across the state.

**Potential Recipient:** Lower Pioneer Valley Educational Collaborative

**Location:** West Springfield, MA

**Purpose:** Engineering, Manufacturing, and Technology Training Project

**Request:** \$400,000

**Project Description:** These funds are requested to develop an engineering and manufacturing education program for secondary students in Western Massachusetts.

**Potential Recipient:** Forsyth Institute

**Location:** Boston, MA

**Purpose:** ForsythKids School-based Preventative Oral Health Program

**Request:** \$1,000,000

**Project Description:** These funds would be used to purchase equipment needed to expand the oral health program to four additional Massachusetts communities. It will also enable Forsyth to purchase lab equipment to research the health impacts of the program.

**Potential Recipient:** Museum of Science, Boston

**Location:** Boston, MA

**Purpose:** The Engineering of Sustainability Program

**Request:** \$1,200,000

**Project Description:** These funds will be used to develop and install new exhibits, create new programming, and support media initiatives on engineering and science education.

**Potential Recipient:** Emmanuel College

**Location:** Boston, MA

**Purpose:** Center for Science Education Equipment Upgrades

**Request:** \$1,750,000

**Project Description:** These funds are requested to procure educational equipment and technology infrastructure needed to create a Center for Science Education, which would allow Emmanuel College to implement educational outreach programs. These programs will prepare students for careers in science and provide leadership in science education throughout the state.

**Potential Recipient:** Jewish Family Service of Worcester, Inc.

**Location:** Worcester, MA

**Purpose:** Central Massachusetts Naturally Occurring Retirement Community Program

**Request:** \$300,000

**Project Description:** These funds are requested to support programs that enable senior citizens

to age-in-place at their homes through targeted and coordinated services. These programs also create increased capacity for delivery of services in affected communities.

**Potential Recipient:** Gordon College

**Location:** Wenham, MA

**Purpose:** Ken Olsen Science Center Equipment Upgrades

**Request:** \$1,500,000

**Project Description:** These funds will help equip the Ken Olsen Science Center with state-of-the-art instruments and other classroom technology. The Center will provide opportunities for students to further their education in science and mathematics, as well as provide tools to contribute competitive research to the scientific community.

**Potential Recipient:** Codman Square Health Center

**Location:** Dorchester, MA

**Purpose:** Health Center Expansion

**Request:** \$11,000,000

**Project Description:** These funds are requested to build an addition onto the Codman Square Health Center Building, which would provide expanded health care services and education spaces. This project will also allow for the expansion of a health professions training program.

**Potential Recipient:** Sisters of Providence Health System

**Location:** Springfield, MA

**Purpose:** Mercy Medical Center's Emergency Department Expansion

**Request:** \$500,000

**Project Description:** This funding will be used to renovate and expand the Mercy Medical Center's emergency department to keep up with increased patient flow and demand for its emergency medical services. An expanded emergency area will ease the burden on physicians and staff to ensure quality patient care.

**Potential Recipient:** Dana Farber Cancer Institute

**Location:** Boston, MA

**Purpose:** Dana Farber Cancer Institute's Center for Biomedical Imaging in Oncology

**Request:** \$5,000,000

**Project Description:** These funds are requested by the Dana Farber Institute to support the establishment of a cyclotron facility as part of its new Center for Biomedical Imaging on Oncology. A cyclotron facility will allow CBIO to become an international leader in the development and implementation of cancer imaging methods that include utilization of short half-life radionuclides to allow clinicians to better diagnose cancer, choose targeted therapies, monitor treatment efficacy, and improve the outcomes of adult and pediatric cancer patients.

**Potential Recipient:** Lowell Community Health Center

**Location:** Lowell, MA

**Purpose:** Lowell Community Health Center Expansion and Consolidation

**Request:** \$4,000,000

**Project Description:** These funds are requested to renovate and expand the health center in Lowell to provide higher quality health care. The Center serves 42,000 low-income people per

year, and this project will allow the facility to consolidate all clinical and administrative operations in one location.

**Potential Recipient:** Emerson College

**Location:** Boston, MA

**Purpose:** Educational Equipment and Technology Infrastructure Upgrades

**Request:** \$500,000

**Project Description:** These funds are requested to upgrade Emerson's AV production studios with new equipment in order to meet industry standards. This will allow the campus to comply with the Federal Communication Commission standards and provide students with educational facilities that will prepare them to use state-of-the-art technology.

**Potential Recipient:** Bristol Community College

**Location:** Fall River, MA

**Purpose:** Veteran's Higher Education Access Initiative

**Request:** \$400,000

**Project Description:** These funds are requested to start a program to help returning veterans transition back to college and succeed in a higher education setting. This program will also help returning veterans re-enter the workforce.

**Potential Recipient:** ALS Therapy Development Institute

**Location:** Cambridge, MA

**Purpose:** ALS Therapy Development Institute Gulf War Research Project

**Request:** \$2,000,000

**Project Description:** These funds are requested to support cutting-edge fast track recovery and translational research for ALS. This funding will also support clinical trials to develop effective drugs to treat the disease.

**Potential Recipient:** WhizKids Foundation, Inc.

**Location:** Cambridge, MA

**Purpose:** WhizKids Math, Science, and Engineering Youth Education and Mentoring Programs

**Request:** \$200,000

**Project Description:** These funds will be used by WhizKids to increase the number of participating schools. WhizKids provides instructors to teach at schools, materials needed for the lessons, and the transportation costs of getting the volunteer instructors to participating schools.

**Potential Recipient:** Signature Healthcare

**Location:** Brockton, MA

**Purpose:** New Digital Mammography Equipment

**Request:** \$646,800

**Project Description:** These funds are requested to replace the current film mammography system at Signature Healthcare's crosstown ambulatory site with a powerful digital state-of-the-art system. This will allow health care providers to encourage more women to access early screening via annual mammograms.

**Potential Recipient:** Horizons for Homeless Children

**Location:** Boston, MA

**Purpose:** Continued Expansion of Horizons for Homeless Children's Youth Programs

**Request:** \$1,500,000

**Project Description:** These funds would be used to expand the capacity of Horizon's three early education and care centers for homeless children. These funds would go to support homeless youth programming and services at sites in Boston, Dorchester, Jamaica Plain and Roxbury.

**Potential Recipient:** Commonwealth of MA Executive Office of Health and Human Services

**Location:** Boston, MA

**Purpose:** Pathways Out of Poverty Program

**Request:** \$500,000

**Project Description:** These funds will develop comprehensive anti-poverty strategies to address the multiple obstacles facing low-income families in an personalized fashion, concentrating on families living at or below the poverty level who are at risk of becoming involved, or who are involved, in the State's child welfare or juvenile justice system. The strategies will be designed to improve collaboration between agencies and fill gaps in existing services.

**Potential Recipient:** Franciscan Hospital for Children

**Location:** Boston, MA

**Purpose:** Inpatient Psychiatric Unit Renovations

**Request:** \$2,300,000

**Project Description:** These funds would be used to renovate and modernize the Inpatient Psychiatric Unit at Franciscan Hospital for children. These funds will provide an updated facility for improved patient care.

**Potential Recipient:** YouthBuild USA

**Location:** Nationwide

**Purpose:** Youth Education Crime Prevention and Leadership Development Programs

**Request:** \$170,000,000

**Project Description:** This funding will support the ongoing programs of YouthBuild USA, which is a youth and community development program that simultaneously addresses core issues facing low-income communities: housing, education, employment, crime prevention, and leadership development. In YouthBuild programs, low-income young people ages 16-24 work toward their GEDs or high school diplomas, learn job skills and serve their communities by building affordable housing. In the process they can transform their own lives and roles in society.

**Potential Recipient:** Manet Community Health Center, Inc.

**Location:** North Quincy, MA

**Purpose:** North Quincy Community Health Center Building Renovation

**Request:** \$1,000,000

**Project Description:** These funds will be used to build new primary care patient examination and treatment rooms, new dental operatories, new vision and eye health service rooms and a family practice residency program to address the critical shortage of primary care providers.

**Potential Recipient:** McCormack Graduate School of Public Policy, UMass Boston

**Location:** Boston, MA

**Purpose:** Give Us Your Poor: Public Education Campaign to End Homelessness

**Request:** \$500,000

**Project Description:** This funding will be used to conduct national public education initiatives to promote non-partisan, evidence based understanding of the current state of homelessness.

**Potential Recipient:** Mattapan Community Health Center

**Location:** Mattapan, MA

**Purpose:** Relocation and Expansion of the Mattapan Community Health Center

**Request:** \$500,000

**Project Description:** This funding will be used to construct a new health care building, which will create 60 permanent jobs. This new facility will enhance the Health Center's ability to deliver health services to the low-income community by providing the physical space needed for existing programs and services.

**Potential Recipient:** City of Boston

**Location:** Boston, MA

**Purpose:** Boston Senior Citizens Health Disparities Reduction Project

**Request:** \$450,000

**Project Description:** These funds will create and implement a case management program to identify and provide services to low-income seniors across the city. The well-being of the elderly population in Boston will be significantly enhanced through improved coordination between agencies delivering health care and support services.

**Potential Recipient:** South Shore Hospital

**Location:** Weymouth, MA

**Purpose:** Digital Mammography Equipment

**Request:** \$1,220,000

**Project Description:** These funds would be used to procure equipment and expand access to digital mammography for the residents of the South Shore.

**Potential Recipient:** Holyoke Public Library

**Location:** Holyoke

**Purpose:** The Holyoke Public Library Restoration and Expansion Project

**Request:** \$8,000,000

**Project Description:** This funding is requested for equipment needed to support the restoration of the deteriorating Library facility. The renovated Holyoke Public Library will meet the needs of the community of Holyoke for years to come.

**Potential Recipient:** Commonwealth of Massachusetts

**Location:** Commonwealth of Massachusetts

**Purpose:** Accelerated Worker Retraining for 21<sup>st</sup> Century Jobs Initiative

**Request:** \$900,000

**Project Description:** These funds will support the creation of accelerated programs to train

workers to enter into health care, manufacturing, and early childhood education industries. These programs will ensure the availability of skilled workers for critical workforce sectors.

**Potential Recipient:** Cape Cod Maritime Museum

**Location:** Cape Cod, MA

**Purpose:** Continued Development of Educational Programs

**Request:** \$250,000

**Project Description:** This funding will be used to support the continued development of educational programs that use Cape Cod's rich maritime history to reach students of all ages, with a particular focus on youth educational programs. The Cape Cod Maritime Museum will develop multi-media exhibits with this funding and restore existing exhibits as well.

**Potential Recipient:** Lynn Community Health Center

**Location:** Lynn, MA

**Purpose:** Construction of a New Health Care Facility

**Request:** \$500,000

**Project Description:** These funds would be used to construct a new facility for the Lynn Community Health Center in downtown Lynn. This facility would provide critical primary care, dental services, behavioral health, and maternity care for patients.

**Potential Recipient:** Brandeis University

**Location:** Waltham, MA

**Purpose:** Educational Equipment to Support a Science Center Expansion Project

**Request:** \$2,000,000

**Project Description:** This funding is requested to acquire educational equipment and technology infrastructure needed to support the renovation and expansion of Brandeis University's Science Complex, which is an ambitious \$100 million project. Funding will be used to equip Phase I of the project, a new 100,000 square-foot, five-story building called the Carl J. Shapiro Science Center, which will house two floors of teaching laboratories and with three floors of research space above.

**Potential Recipient:** Boston Medical Center

**Location:** Boston, MA

**Purpose:** Ambulatory Care Center Construction Project

**Request:** \$5,000,000

**Project Description:** This funding will be used to construct and equip a new ambulatory care building. This building is one part of Boston Medical Center's multi-pronged efforts to address health care disparities, housing new technologies and equipment to bring consistently high quality care. It will enable the consolidation of clinical services currently scattered in different locations.

**Potential Recipient:** Wheelock College

**Location:** Boston, MA

**Purpose:** Higher Education Access Project for Early Childhood Educators

**Request:** \$305,000

**Project Description:** The funding would be used to design, implement and evaluate a pilot

program for improving access to higher learning and degree attainment for early childhood educators in the Boston area. This project will also begin to evaluate the need for improved compensation for early childhood educators.

**Potential Recipient:** GreenFleet Inc.

**Location:** New Bedford, MA

**Purpose:** Youth Education and Training Programs

**Request:** \$150,000

**Project Description:** This funding would support youth programs to promote job skills development, educational attainment, self-esteem improvement, and environmental stewardship. GreenFleet's programs use boatbuilding and marine environmental improvement curricula to inspire students to take active roles in their own personal development and in the health of their surrounding environment.

**Potential Recipient:** Simpson College

**Location:** Indianola, IA

**Purpose:** Development of the John C. Culver Public Policy Center

**Request:** \$2,000,000

**Project Description:** This funding will be used to establish a public service institute on the Simpson College Campus. This Center, The John C. Culver Public Policy Center, will provide a non-partisan forum for the study of public policy and encourage young people to consider engaging in public service.

**Potential Recipient:** National Student/Parent Mock Election

**Location:** Nationwide

**Purpose:** National Civic Education Programs

**Request:** \$275,000

**Project Description:** This funding will be used for the continuation of programming that engages students around the country in a unique and powerful way through national mock elections.

**Potential Recipient:** Eastern Nazarene College

**Location:** Quincy, MA

**Purpose:** Continued Development of Civic Responsibility Programs

**Request:** \$100,000

**Project Description:** These funds will be used to develop a program centered on civic responsibility and social justice. This program will work with students to volunteer and serve diverse and vulnerable populations.

**Potential Recipient:** New England College of Optometry

**Location:** Boston, MA

**Purpose:** Medical Equipment and Technology Infrastructure Upgrades

**Request:** \$884,000

**Project Description:** These funds will be used to procure equipment to develop an electronic medical record system to improve patient care.

**Potential Recipient:** Nimble Assessment Systems Inc.

**Location:** Newton, MA

**Purpose:** Educational Accessibility Improvements for Students with Special Needs

**Request:** \$2,300,000

**Project Description:** This funding will be used to refine a computer-based system that makes educational tests more accessible for students regardless of their physical disabilities, learning disabilities, or special needs.

**Potential Recipient:** Katie Brown Educational Program, Inc.

**Location:** Fall River, MA

**Purpose:** Elementary and Secondary School Youth Violence Reduction Initiative

**Request:** \$250,000

**Project Description:** This funding will go to expand programs that work to eliminate youth violence at the elementary and secondary school levels. These funds will support two new specialized educators, a coordinator, and a scholarship fund for 40 teachers to receive training.

**Potential Recipient:** ARCHway, Inc.

**Location:** Leicester, MA

**Purpose:** Renovations to Autism Treatment and Care Facility

**Request:** \$300,000

**Project Description:** ARCHway, a small non-profit agency that continually provides special education to 13 students with autism and supports two group homes serving 12 adults with autism, is working on a facility expansion renovation plan to permit the expansion of ARCHway educational services. This funding would be used to acquire educational equipment and technology infrastructure needed as part of the ARCHway educational facility modernization.

**Potential Recipient:** South Berkshire Educational Collaborative

**Location:** Great Barrington, MA

**Purpose:** Berkshire County Educational Enhancement Initiative

**Request:** \$800,000

**Project Description:** These funds would go to forming an educational collaborative to support the instructional and management service needs of the school districts of Berkshire County. The collaborative will focus on the professional development of teachers and administrators, school districts' operational needs, education services, and transportation services for students.

**Potential Recipient:** Prostate Health Education Network, Inc.

**Location:** Quincy, MA

**Purpose:** Prostate Cancer Educational Awareness Initiative

**Request:** \$2,000,000

**Project Description:** These funds will be used to organize and implement prostate cancer education and support activities targeting African American men. These activities will create partnerships with leading cancer centers around the country.

**Potential Recipient:** Jewish Family and Children's Services of Greater Boston

**Location:** Waltham, MA

**Purpose:** Metropolitan Boston Naturally Occurring Retirement Community Program

**Request:** \$500,000

**Project Description:** This funding will go to expand cost-effective programs to help seniors continue living in their own homes as they grow older. These programs will increase service availability and crisis prevention education, create health promotions for the community, and work towards overall community improvements.

**Potential Recipient:** Mashpee Wampanoag Tribe

**Location:** Mashpee, MA

**Purpose:** Expansion of Health Care Facilities and Medical Equipment Upgrades

**Request:** \$1,000,000

**Project Description:** This funding is requested to help Mashpee Wampanoag Tribe expand health care facilities and purchase medical equipment to provide expanded health care services to Tribal members. Specifically, over \$600,000 would be used to support the expansion of health department facilities, and \$400,000 would be dedicated to acquiring new diagnostic equipment and medical information technology systems.

**Potential Recipient:** National Writing Project

**Location:** Nationwide

**Purpose:** Activities Authorized under the Elementary and Secondary Education Act

**Request:** \$25,000,000

**Project Description:** The National Writing Project (NWP) is a professional development network that serves teachers of writing at all grade levels -- from elementary school through university -- and in all subjects. The mission of the NWP is to improve student achievement by improving the teaching of writing and improving learning in the nation's schools.

**Potential Recipient:** Reach Out and Read

**Location:** Nationwide

**Purpose:** Activities Authorized under the Elementary and Secondary Education Act

**Request:** \$4,965,000

**Project Description:** Reach Out and Read (ROR) programs make early literacy a standard part of pediatric primary care. Following the ROR model, pediatricians, family physicians and nurses advise parents that reading aloud is the most important thing they can do to help their children love books and to start school ready to learn. Pediatricians and other clinicians are trained in the three part ROR model in an effort to promote pediatric literacy: (1) at every well-child check-up, doctors and nurses encourage parents to read aloud to their young children, and offer age-appropriate tips and encouragement; (2) pediatricians, family physicians and nurses give children between the ages of six months and five years new, developmentally appropriate children's books to keep; and (3) in literacy rich waiting room environments, parents and children learn about the pleasures and techniques of looking at books together.

**Potential Recipient:** Exchanges with Historic Whaling and Trading Partners

**Location:** New Bedford, MA

**Purpose:** Activities Authorized under the Elementary and Secondary Education Act

**Request:** \$10,000,000

**Project Description:** This funding is requested to support the Exchanges with Historic Whaling and Trading Partners programs authorized under the No Child Left Behind Act, which build on

the cultural linkages established by maritime trade over 150 years ago between communities on the East Coast of the United States and the Pacific Region to improve childhood education. Specifically, ECHO partners use this funding to develop curricula to improve the historical understanding and the language arts skills of participating students, many of whom come from disadvantaged and low-income backgrounds.

**Potential Recipient:** University of Massachusetts-Boston

**Location:** Boston, MA

**Purpose:** Developmental Sciences Research Center

**Request:** \$1,600,000

**Project Description:** These funds would be used to procure equipment and technology to support the launch of the Developmental Sciences Research Center with an initial research project focused on translational research on investigating stress, trauma, and abuse. The Center will also address issues such as autism, brain development, learning and memory, and mental health disparities.

**Potential Recipient:** Reading is Fundamental

**Location:** Washington, DC

**Purpose:** Activities Authorized under the Elementary and Secondary Education Act

**Request:** \$25,000,000

**Project Description:** Reading Is Fundamental, Inc. prepares and motivates children to read by delivering free books and literacy resources to those children and families who need them most. Founded in 1966, RIF is the oldest and largest children's and family nonprofit literacy organization in the United States. Through community volunteers in every state and U.S. territory, RIF provides 4.5 million children with 16 million new, free books and literacy resources each year.

**Potential Recipient:** Tribally Controlled Postsecondary Vocational Institutions

**Location:** Nationwide

**Purpose:** Programs Authorized Under the Carl Perkins Career and Technical Education Act

**Request:** \$10,000,000

**Project Description:** These funds are requested to ensure that vocational training needed to promote job skill development, job placement, and career advancement among Native Americans remains funded in the current federal year. Native Americans endure higher rates of unemployment, suicide, alcoholism, and depression than the average US population, and by providing meaningful educational opportunities, these programs are intended to foster a sense of self-worth, confidence, achievement, and independence among program participants.

**Potential Recipient:** Pioneer Valley Life Science Institute

**Location:** Springfield, MA

**Purpose:** Equipment and Technology Infrastructure Upgrades

**Request:** \$1,000,000

**Project Description:** This funding is requested to acquire medical, research, and clinical care equipment needed to support the expansion of the Pioneer Valley Life Science Institute, a life science collaboration between the University of Massachusetts at Amherst and Baystate Medical Center of Springfield, MA. In less than six years, the PVLSI has raised over \$80 million to form

an enduring medical research partnership between the scientists from the University of Massachusetts and the medical doctors serving the public at Baystate Medical Center in Springfield. Their collaboration is leading to the development of cutting-edge treatments for diseases such as diabetes.

**Potential Recipient:** Caring Health Center, Inc.

**Location:** Springfield, MA

**Purpose:** Development of a New Health Care Facility

**Request:** \$1,000,000

**Project Description:** These funds will be used to develop the architectural plans and budget for the construction of a new facility for the Caring Health Center.

**Potential Recipient:** Center for Women and Enterprise

**Location:** Boston, MA

**Purpose:** Development of an Entrepreneurial Education Program for Women

**Request:** \$450,000

**Project Description:** This funding would support the development of a program aimed at small business development needs of women with businesses with 20 or fewer employees -- or women looking to start businesses -- during the current economic recession. The initiative will pair classroom instruction with mentoring combined with a multi-week courses, workshops and follow-up consulting on topics directly challenging the current economic crisis.

**Potential Recipient:** Dana Farber Cancer Institute

**Location:** Boston, MA

**Purpose:** Nursing Health Disparities Initiative

**Request:** \$500,000

**Project Description:** These funds are requested to develop a partnership between DFCI Department of Nursing, the Phyllis Cantor Center for Research in Nursing and Patient Care Services, and the UMass Boston College of Nursing and Health Sciences. This partnership will create a nurse training and mentorship program that will prepare students with a focus on cancer care, health policy, and health disparities in a coordinated effort.

**Potential Recipient:** Boston Foundation, Inc.

**Location:** Boston, MA

**Purpose:** Comprehensive Foreclosure Education and Prevention Initiative

**Request:** \$800,000

**Project Description:** This initiative supports the community safety organizing work of community based organizations working to address foreclosed and abandoned properties in Boston neighborhoods impacted by high numbers of foreclosures. Working with the Boston Police Department and the City of Boston's Foreclosure Intervention Team, community development corporations are working to use both neighborhood organizing and real estate development strategies to address blight and the associated public safety problems. The Local Initiatives Support Corporation is working with The Boston Foundation to coordinate these grassroots safety efforts and development activities with the new *Street Safe* violence intervention program.

**Potential Recipient:** National History Day

**Location:** Nationwide

**Purpose:** The National History Day Program

**Request:** \$5,000,000

**Project Description:** The Administration's budget did not include funding for National History Day, and this funding is requested to ensure that the role the National History Day program has played for more than 25 years in transforming the way history is taught remains strong and vibrant in the coming year. The NHD program helps teachers meet high educational standards; disseminates high quality curriculum materials; and sponsors challenging contests that teaches students the critical skills necessary to be effective citizens in the 21<sup>st</sup> Century.

**Potential Recipient:** Center for Civic Education

**Location:** Nationwide

**Purpose:** We the People, School Violence Prevention, and Cooperative Education Exchange Programs

**Request:** \$35,000,000

**Project Description:** This funding is requested to support programs authorized in the Education for Democracy Act, which reach some 5 million students annually and have been demonstrated to be effective programs through independent research and evaluation. The Education for Democracy Act programs have been proven to increase students' fundamental understanding of democracy, improve the school environment, and increase academic achievement.

**Potential Recipient:** Massachusetts General Hospital

**Location:** Boston, MA

**Purpose:** Multi-institutional Cancer Research Program

**Request:** \$9,000,000

**Project Description:** These funds will be used to conduct pre-clinical studies on promising cancer treatments, promote Good Manufacturing Practice (GMP) production of drugs and oncolytic virus used in treatments, and perform related work necessary for the submission of New Drug Applications to the Food and Drug Administration. More specifically, the goals of this program are to develop promising new treatments for brain cancer, and new treatments and preventative therapies for breast, prostate, and ocular cancers.

**Potential Recipient:** North Shore Community College

**Location:** Danvers, MA

**Purpose:** Information Technology Upgrades to Support Facility Modernization

**Request:** \$3,000,000

**Project Description:** These funds would be used to acquire equipment to support the construction of a Zero Net Energy Building, which will be a state-of-the-art teaching and learning environment at the College. This funding will also support the construction of computerized classrooms and equip labs for allied health disciplines.

**Potential Recipient:** en-Gauge Technologies, Inc.

**Location:** Rockland, Massachusetts

**Purpose:** Airport Use of Assistance to Firefighters Grants

**Request:** \$20 Million

**Project Description:** The purpose of this request is to increase the President's budget request to the Assistance to Firefighters Grant program, to improve airport terminal safety and security by funding technology that monitors fire extinguishers in airport terminals to ensure that they are in place, functioning correctly and have not been stolen or manipulated.

**Potential Recipient:** Parker Hannifin

**Location:** Woburn, Massachusetts

**Purpose:** EMI Shielding Materials for Security Measures in Electronic Passports

**Request:** \$400,000

**Project Description:** This funding would help develop and commercialize a flexible electrically conductive coating that can be integrated into the electronic components in passports.

**Potential Recipient:** Passport Systems, Inc.

**Location:** North Billerica, Massachusetts

**Purpose:** New Generation Cargo Container Scanner

**Request:** \$5 Million

**Project Description:** This funding will go to develop a non-intrusive inspection system for cargo validation that would give port of entry officials the ability to interdict contraband, enforce tariff and import/export regulations while simultaneously issuing an alert if there are any threats in the container or pallet.

**Potential Recipient:** SurIDx, Inc.

**Location:** Company located in Wellesley, Massachusetts. Project to be executed in the National Capitol Region

**Purpose:** First Responder Resume Project

**Request:** \$400,000

**Project Description:** The funds will be used to finalize the design of a state-of-the-art secure credentialing system that will allow first responders to gain appropriate access during national emergencies, and install and maintain the system.

**Potential Recipient:** University Laboratory Consortium for Biodefense and Pandemic Preparedness

**Location:** 13 sites across the country including the Cummings School of Tufts University, located in Grafton, MA

**Purpose:** Regional Biocontainment Laboratory Surge Capacity Preparedness

**Request:** \$24 Million

**Project Description:** The requested funding would be used to support the activities of the nation's Regional Biocontainment Laboratories (RBLs) to provide DHS with the surge capacity it needs to respond to a biological attack or outbreak of an infectious disease.

**Potential Recipient:** Worcester Polytechnic Institute (WPI)

**Location:** Worcester, Massachusetts

**Purpose:** First Responder Indoor Locator, Tracking, Monitoring Rescue System

**Request:** \$5 Million

**Project Description:** This funding would support ongoing work on radio-based precision location techniques by identifying and combining it with complementary technologies to produce

a wireless, wearable and low cost 3D Personnel Locator, Tracking and Health Monitoring system that can be rapidly inserted into service to enhance situational awareness and improve the safety of first responder services.

**Potential Recipient:** Nantucket Memorial Airport

**Location:** Nantucket, Massachusetts

**Purpose:** Nantucket Memorial Airport Replacement Tower, MA

**Request:** \$1 Million

**Project Description:** This funding would be used to construct a new air tower at the Nantucket Memorial Airport to better serve air passengers.

**Potential Recipient:** Xsight Systems, Inc.

**Location:** Boston, Massachusetts

**Purpose:** Full-runway Foreign Object Debris Automatic Monitoring and Detection System, MA

**Request:** \$1.32 Million

**Project Description:** This funding would be used to extend the existing 10 unit automatic foreign object debris (FOD) detection test system at Logan Airport in Boston, Massachusetts to a full runway system. In addition to the safety benefits, the expanded system will collect detailed information on FOD to help with the development of FOD detection standards for smaller airports across the country.

**Potential Recipient:** City of Lynn

**Location:** Lynn, Massachusetts

**Purpose:** City of Lynn Seaport and Landing Rehabilitation, MA

**Request:** \$1 Million

**Project Description:** The requested funding would go towards the construction of expanded public ferry and associated public marina facilities in Lynn, including the repair and replacement of 25 docks, upgrading an antiquated electrical service system and the replacement of gas and diesel pumps.

**Potential Recipient:** City of Salem

**Location:** Salem, Massachusetts

**Purpose:** New Salem Wharf Project/Blaney Street, MA

**Request:** \$20 Million

**Project Description:** The requested funding will go to the construction of a multi-use water transportation facility which would serve a variety of vessels including the Salem Ferry, cruise ships, excursion boats, harbor water taxis, the LNG offshore supply boat and commercial fishing boats.

**Potential Recipient:** Woods Hole, Martha's Vineyard and Nantucket Steamship Authority

**Location:** Hyannis Harbor, Massachusetts

**Purpose:** SSA Hyannis Terminal Slip Improvements, MA

**Request:** \$2 Million

**Project Description:** The requested funding will be used for the Hyannis Terminal Slip Improvement Project. This would create a passenger pick-up and drop-off area to improve the

level of service for passengers traveling on the Authority's high-speed passenger vessel while limiting the number of vehicles transported to the island.

**Potential Recipient:** Berkshire Theatre Festival

**Location:** Stockbridge, Massachusetts

**Purpose:** Berkshire Theater Festival Facility Improvements

**Request:** \$598,550

**Project Description:** The 80<sup>th</sup> Anniversary Campaign is a renovation and revitalization campaign for the Berkshire Theatre Festival. This funding would provide for improvements for access for patrons on walkways, roadways, and parking areas of the campus, as well as improvements to buildings and patron amenities.

**Potential Recipient:** Cambridge Redevelopment Authority (CRA)

**Location:** Cambridge, Massachusetts

**Purpose:** Longfellow Bridge Approach and Gateway, MA

**Request:** \$1 Million

**Project Description:** This project is to create a gateway for motorists, transit riders, and pedestrians into the City of Cambridge using the Longfellow Bridge/Broadway Corridor entryway from downtown Boston, across the Charles River, and into Kendall Square and the City of Cambridge. This funding would go towards gateway signage, water or steam features, new plantings and landscaping, and area-wide lighting.

**Potential Recipient:** Lesley University

**Location:** Cambridge, Massachusetts

**Purpose:** Porter Square Revitalization, MA

**Request:** \$2.5 Million

**Project Description:** Lesley University is planning to relocate its art school, the Art Institute of Boston, to Porter Square, Cambridge, continuing the revitalization of the square and encouraging commercial growth.

**Potential Recipient:** City of Lynn

**Location:** Lynn, Massachusetts

**Purpose:** Traffic Study Route 1 and 107, MA

**Request:** \$300,000

**Project Description:** This funding would go to study the proposal to connect Route 1 at Squire Road in Revere to Route 107 going into Lynn and 107 to Lynnway.

**Potential Recipient:** Essex National Heritage Commission

**Location:** Essex County, Massachusetts

**Purpose:** Border to Boston Trail, MA

**Request:** \$1.96 Million

**Project Description:** The requested funding would be used to finalize the design of the 28-mile rail-trail and ready the project for construction. This funding would be used to secure rights-of-way, to prepare designs, to conduct engineering studies of bridges, culverts, and other crossings and to obtain environmental and project permits.

**Potential Recipient:** University of Massachusetts - Amherst

**Location:** Amherst, Massachusetts

**Purpose:** Campus Vehicular and Pedestrian Circulation Improvements, MA

**Request:** \$13.3 Million

**Project Description:** Following a comprehensive study of vehicular and pedestrian patterns at the UMASS – Amherst Campus, transportation funding is needed to more safely and efficiently manage the flow of vehicles and pedestrians along the North Pleasant Street corridor.

**Potential Recipient:** South Shore Tri Town Development Corporation (SSTTDC)

**Location:** South Weymouth, Massachusetts

**Purpose:** East-West Parkway Intermodal Improvements, MA

**Request:** \$10 Million

**Project Description:** Funding is needed to support the construction of the East-West Parkway that will bisect the base from Route 18 to Route 3 and build a new on-site intermodal facility. Both would enhance regional transportation needs and continue the redevelopment of the South Weymouth Naval Air Station.

**Potential Recipient:** City of Boston

**Location:** Boston, Massachusetts

**Purpose:** Northern Avenue Bridge Rehabilitation, MA

**Request:** \$4.5 Million

**Project Description:** This funding would go towards the design, engineering and permitting of a comprehensive rehabilitation of the Northern Avenue Bridge. The Northern Avenue Bridge is a part of the emergency evacuation network for the South Boston area that houses the U.S. Federal Courthouse, and it is a state of disrepair that requires attention to prevent further degradation and the development of public safety concerns.

**Potential Recipient:** City of New Bedford

**Location:** New Bedford, Massachusetts

**Purpose:** Route 18 Reconstruction, MA

**Request:** \$3.1 Million

**Project Description:** This funding is needed to complete the reconstruction of Route 18. Route 18 suffers from poor pedestrian connections linking the downtown back to the waterfront, allows automobile use at often unsafe speeds and lacks the physical characteristics that are needed to allow Route 18 to function as a suitable and attractive gateway to the city. This project is under design right now and this \$3.1 Million will complete the project.

**Potential Recipient:** City of Boston

**Location:** Boston, Massachusetts

**Purpose:** Rutherford Avenue/Sullivan Square Improvements, MA

**Request:** \$10 Million

**Project Description:** The project will result in the realignment of a 10 lane roadway which is currently a barrier for the historic Charlestown neighborhood with a design that will divert regional traffic to the newly completed Central Artery. It will address local traffic moves, create a pedestrian friendly corridor, provide access to two Orange Line subway stations, provide links with an existing waterfront opens space system and create economic development opportunities.

**Potential Recipient:** Westfield State College

**Location:** Westfield, Massachusetts

**Purpose:** Westfield State College North Campus Access Road and Entrance Improvements, MA

**Request:** \$7,385,342

**Project Description:** The requested funding would be used to continue construction of an additional access road and egress point to the Westfield State College campus, alleviating heavy traffic flows and congestion on Western Avenue. The goal is to improve safety for students and city residents given the proximity of Western Avenue to Stanley Park and Juniper Park Elementary School.

**Potential Recipient:** Massachusetts Bay Transportation Authority (MBTA)

**Location:** Newton, Massachusetts

**Purpose:** Commonwealth Ave/Green Line MBTA Intermodal Improvements, MA

**Request:** \$3 Million

**Project Description:** This project includes relocating the exiting station platform and shelter from the City of Newton to the City of Boston and constructing one center platform in the middle of Commonwealth Avenue near the Lake Street intersection installing a shelter, lighting, tactile edging and pedestrian crossings.

**Potential Recipient:** University of Massachusetts - Amherst

**Location:** Amherst, Massachusetts

**Purpose:** Integrated Payment Systems for Transportation: Security, Privacy, and Mobility, MA

**Request:** \$1,795,600

**Project Description:** This project will explore security, privacy and mobility issues of integrated payment systems in public transportation systems including trains, subways, buses, and commuter ferries as well as toll collection for roads, bridges, and tunnels, and payment for parking. This funding will go to study integrated payment systems and how to increase the security and privacy of said systems.

**Potential Recipient:** MagneMotion Inc.

**Location:** Cambridge, Massachusetts

**Purpose:** Next Generation Maglev Development, MA

**Request:** \$4.25 Million

**Project Description:** The requested funding used to further MagneMotion's development of new technology, including the hiring of additional personnel, subcontractors, construction of the test track, and for the acquisition of equipment necessary to build and test the Maglev system.

**Potential Recipient:** Town of Amherst

**Location:** Amherst, Massachusetts

**Purpose:** Amherst Research Park Development, MA

**Request:** \$10 Million

**Project Description:** This funding would be used to option sixty acres of vacant land located two miles from the University of Massachusetts Amherst campus and develop a research park to promote economic development. The Town is looking to attract major private research

institutions to the site and prepare the site with the needed infrastructure to support up to a 600,000 square feet building.

**Potential Recipient:** Boys & Girls Club of Greater Westfield

**Location:** Westfield, Massachusetts

**Purpose:** Boys & Girls Club Renovation and Expansion, MA

**Request:** \$500,000

**Project Description:** The Boys & Girls Club of Greater Westfield, Inc offers after-school educational, fitness, and computer technology training to disadvantaged children. These programs are conducted in a facility constructed in 1991 that is no longer of sufficient size to accommodate a rapidly growing number of children using the facility each year. The purpose of this project is to restore and enhance the facility to allow these youth development programs to grow in a safe and more reliable environment.

**Potential Recipient:** North Shore Accelerator (NSA)

**Location:** Beverly, Massachusetts

**Purpose:** Cleantech/Biotech Business Incubator Project, MA

**Request:** \$425,000

**Project Description:** This funding would support the continued development of the North Shore Accelerator, a technology business incubator that promotes innovation, encourages entrepreneurship, and contributes to the economic development of Lynn and Beverly. Funding would be used for a pilot project to help establish and grow small businesses in cleantech and biotech.

**Potential Recipient:** YWCA Southeastern Massachusetts, Inc.

**Location:** New Bedford, Massachusetts

**Purpose:** Community Center and Women's Housing Facility Expansion, MA

**Request:** \$525,000

**Project Description:** The YWCA seeks to construct a 12,000 square foot building addition in order to consolidate its offsite childcare and women's transitional residency programs into a safe and nurturing facility. With demand for its human service programs increasing, the YWCA must relocate these programs from existing leased facilities that are in poor condition and located in high crime areas to its historic Levi Standish House which will become a barrier-free, center-city campus.

**Potential Recipient:** Middlesex Community College

**Location:** Lowell, Massachusetts

**Purpose:** Downtown Historic Building Redevelopment, MA

**Request:** \$750,000

**Project Description:** This funding would be used to conduct an architectural study and design review of the Boston and Maine Railroad Depot, also known as the Rialto building, to accommodate a planned expansion of the college's downtown Lowell academic programs to meet the need of the college's rising enrollments as well as to relocate its performing arts and music programs. The study and design will include planning for the inclusion of needed community space that will be made available to the public.

**Potential Recipient:** City of Taunton

**Location:** Taunton, Massachusetts

**Purpose:** Low-Income Senior Center Safety Improvements, MA

**Request:** \$200,000

**Project Description:** This funding will be used to make safety improvements to the Taunton Nursing Home. It would also support the purchase of new heating and air conditioning systems.

**Potential Recipient:** City of North Adams

**Location:** North Adams, Massachusetts

**Purpose:** Mohawk Theatre Restoration, MA

**Request:** \$4.3 Million

**Project Description:** This requested funding would be used to restore a historic building to become the central attraction of a revitalized downtown.

**Potential Recipient:** City of Quincy

**Location:** Quincy, Massachusetts

**Purpose:** Quincy Center Urban Renewal District Plan Projects, MA

**Request:** \$50 Million

**Project Description:** The requested funds will be used to make transportation and pedestrian improvements needed in downtown Quincy in order to revive the downtown and attract economic development.

**Potential Recipient:** The Greater Boston Food Bank, Inc.

**Location:** Boston, Massachusetts

**Purpose:** Regional Food Distribution Facility Construction, MA

**Request:** \$1 Million

**Project Description:** The requested funding would help build an 117,000 square foot food distribution center to serve the people of Eastern Massachusetts. The center would include a dry warehouse, coolers, and a freezer for perishable food as well as community training rooms and offices.

**Potential Recipient:** United Teen Equality Center (UTEC)

**Location:** Lowell, Massachusetts

**Purpose:** UTEC New Youth Center Building Project, MA

**Request:** \$1 Million

**Project Description:** This funding is requested to provide a new, green addition to UTEC's current youth center to allow for increased support services to over 17,000 youth living in Lowell.

**Potential Recipient:** Emerson College

**Location:** Boston, Massachusetts

**Purpose:** Colonial Building Preservation and Redevelopment, MA

**Request:** \$500,000

**Project Description:** This requested funding is to preserve the structural integrity of the historic Colonial Building. Listed in the Piano Row National Register Historic District, the Colonial

Building houses Boston's oldest operating theater venue in addition to a new residence hall for Emerson College.

**Potential Recipient:** Holyoke Community College

**Location:** Holyoke, Massachusetts

**Purpose:** Downtown Continuing Education Center Development, MA

**Request:** \$380,000

**Project Description:** This project is designed to create a one stop education, social services and training center in downtown Holyoke to provide low-income and disadvantaged residents with the opportunities they need to improve their lives and those of their families. It is a partnership between Holyoke Community College and the City that will also restore and underutilize downtown buildings and attract people to the City's downtown area.

**Potential Recipient:** Architectural Heritage Foundation Inc.

**Location:** Lowell, Massachusetts

**Purpose:** Hamilton Crossing Community Redevelopment Project, MA

**Request:** \$4 Million

**Project Description:** The requested funding will be used to undertake construction of 265,000 square foot mixed-use residential and commercial space creating 65 units of affordable and workforce housing and 200,000 square feet of medical and other office space. Specifically, the requested funding will be used for core and shell preservation activities including masonry, windows, and façade repair.

**Potential Recipient:** Mass Rural Water Association

**Location:** Northfield, Massachusetts

**Purpose:** Mass Rural Water Training Facility Construction, MA

**Request:** \$450,000

**Project Description:** This funding would build a facility for technical assistance and formal training of water and wastewater professionals. It will also be used to equip the facility with modern technical equipment that are needed for training.

**Potential Recipient:** Westfield State College

**Location:** Westfield, Massachusetts

**Purpose:** Westfield State College Disability Service Center Construction, MA

**Request:** \$325,000

**Project Description:** Funding is requested to renovate and expand a crowded area serving students with disabilities into a state-of-the-art, fully integrated Disabilities Service Center accommodating approximately 500 students and professional staff, incorporating adaptive technology, exam administration, and academic tutoring.

**Potential Recipient:** Boston National Historical Park

**Location:** Boston, Massachusetts

**Request:** \$5,498,000

**Purpose:** Pier 1 Repair at the Charlestown Navy Yard

**Project Description:** The Boston National Historical Park will use these funds for renovation to Pier 1 at the Charlestown Navy Yard. Pier 1 represents 25 percent of the National Park's acreage

at the Charlestown Navy Yard. It is a National Historic Landmark, and serves as the location for berthing of the USS CONSTITUTION and the USS CASSIN YOUNG.

**Potential Recipient:** Minute Man National Historical Park

**Location:** Concord, Massachusetts

**Request:** \$2,300,000

**Purpose:** Colonel James Barrett Farm House Acquisition

**Project Description:** Colonel James Barrett's farm was the hiding place for weapons on the eve of the opening battle of the American Revolution. A British expeditionary force was sent from Boston on April 18 to seize these weapons. Minute Man National Historical Park was created to commemorate the events of April 18-19, 1775, which ignited the American Revolution. These funds would be used to support the completion of the historic park, ensure public access and permanently protect this landmark.

**Potential Recipient:** New Bedford Whaling National Historical Park

**Location:** New Bedford, Massachusetts

**Request:** \$1,500,000

**Purpose:** Bourne Building Restoration

**Project Description:** The historic Bourne Building is the main building of the New Bedford Whaling Museum, and a central institution and attraction of New Bedford Whaling National Historical Park. The requested funds would be used to restore this historic building, and more specifically, repair leaking ceilings, and upgrade inadequate heating, cooling, and fire suppression systems.

**Potential Recipient:** Salem Maritime National Historic Site

**Location:** Salem, Massachusetts

**Request:** \$4,578,000

**Purpose:** Rehabilitation of the Derby Wharf and Hawkes House

**Project Description:** This two-pronged project will use the requested funds for the rehabilitation of the Salem Maritime National Historic Site's Derby Wharf and Hawkes House. The Derby Wharf project is the last piece of the planned development to reverse park resource deterioration that began in 1988 and has involved a \$28-million National Park Service investment. The 1780 Hawkes House also needs rehabilitation to protect the building itself and to upgrade space used as park headquarters.

**Potential Recipient:** Silvio O. Conte National Fish and Wildlife Refuge

**Location:** Sunderland, Massachusetts

**Request:** \$1,400,000

**Purpose:** Fort River Grasslands, Phase III

**Project Description:** These funds would support the U.S. Fish and Wildlife Service's ongoing efforts to protect critical and irreplaceable habitat along the Fort River. This is a key focus area for land acquisition and public resource management within the Silvio Conte National Wildlife Refuge, and is among the Service's highest conservation priorities in the nation.

**Potential Recipient:** Essex National Heritage Area

**Location:** Salem, Massachusetts

**Request:** \$2,000,000

**Purpose:** For the preservation and enhancement of the historic, cultural and natural resources of the Essex National Heritage Area

**Project Description:** These funds will be used to preserve and enhance the historic, cultural and natural resources of the Essex National Heritage Area, authorized by Congress in 1996. This funding will support the on-going projects within the Area including the development of the 30 mile Border to Boston rail trail, the coastal scenic byway project, technical assistance to museums and historical societies, and educational programs that connect teachers and their students to the National Park Service and the area's many other heritage resources.

**Potential Recipient:** Hancock Shaker Village

**Location:** Hancock, Massachusetts

**Request:** \$750,000

**Purpose:** Trustee's Office Exterior Emergency Stabilization

**Project Description:** Hancock Shaker Village is a National Historic Landmark and one of the best preserved Shaker sites in the nation. It is the only remaining Shaker Village to contain 18 historic buildings. These funds will be used to perform critical stabilization and water damage mitigation work on the Shaker Trustee's Office, one of the most significant Shaker buildings.

**Potential Recipient:** John H. Chafee Blackstone River Valley National Heritage Corridor

**Location:** Blackstone River Valley, Massachusetts

**Request:** \$100,000

**Purpose:** Blackstone River Valley Tourism Collaborative Initiative

**Project Description:** The Tourism Collaborative Initiative is a bi-state program created in 2000 to develop heritage tourism as an industry. This funding will be used for the Massachusetts portion of the Blackstone River Valley with an emphasis on developing a strategy for a self-sustaining program. These funds will be used to enhance marketing and visitor services through innovative, web-based technologies.

**Potential Recipient:** Boston College's Weston Observatory

**Location:** Chestnut Hill, Massachusetts

**Request:** \$500,000

**Purpose:** National Earthquake Hazard Reduction Program and Advanced National Seismic System Program

**Project Description:** These funds will be used to develop a reliable system to identify the location and magnitude of all earthquakes in New England and the surrounding areas. They will also be used to develop a system for the rapid dissemination of earthquake information and to develop an automated system for estimating the probabilities of future earthquakes.

**Potential Recipient:** University of Massachusetts-Amherst

**Location:** Amherst, Massachusetts

**Request:** \$2,000,000

**Purpose:** Sustainable Water Institute

**Project Description:** These funds will support the creation of a Sustainable Water Institute at UMass Amherst that will foster integrated science, technology and public policy initiatives to insure sustainable water supplies. The Institute will use practical tools to monitor, protect and

manage fresh water supplies ensuring their long-term accessibility. This institute will be the only one of its kind in the world. Results from this project will not only have immediate benefits to critical locations across New England, but they will also allow development of new technologies for export around the nation and the world.

**Potential Recipient:** Water Research Foundation

**Location:** Nationwide

**Request:** \$5,000,000

**Purpose:** To sponsor individual research projects through the Water Research Foundation that enable municipal water utilities to provide safe, affordable and sustainable water to their customers

**Project Description:** The Water Research Foundation's work is focused on applied research on cost effective ways to enhance drinking water technologies. This Foundation is the largest drinking water research foundation in the world. The requested funding will be used to sponsor individual research projects that enable water utilities to provide safe, affordable and sustainable water to their customers.

**Potential Recipient:** Town of Leicester

**Location:** Leicester, Massachusetts

**Request:** \$800,000

**Purpose:** Restoration of the Historic Samuel May House Underground Railroad Site

**Project Description:** This funding will be used to promote economic development and tourism by completing interior and exterior restorations to the Town of Leicester's visitor center, which will be located in the Samuel May House. Samuel May was a historic figure in the anti-slavery movement in the early 1800s, and the May House was a critically important part of the Underground Railroad.

**Potential Recipient:** City of Salem

**Location:** Salem, Massachusetts

**Request:** \$5,000,000

**Purpose:** Salem Historic City Hall Renovations

**Project Description:** Salem City Hall, built in 1837, is the 2<sup>nd</sup> oldest city hall in America that is still operational. The requested funding will be used to support renovations to the City Hall building including handicap accessibility, asbestos abatement, new heating ventilation and air conditioning systems and electrical, roofing and masonry work. Phase One of the project will be to install an elevator in the building. Phase Two will be to add the exterior improvements and Phase Three will be to make the interior upgrades. These renovations will lower operational costs and allow the building to operate more efficiently.

**Potential Recipient:** City of New Bedford and Fall River

**Location:** Bristol County, Massachusetts

**Request:** \$2,000,000

**Purpose:** Bristol County's Combined Sewer Overflow System (CSO)

**Project Description:** These funds will be used for improvements made to Bristol County's Combined Sewer Overflow systems. The cities of New Bedford and Fall River confront millions of dollars in urgently needed CSO repairs.

**Potential Recipient:** Westerly Wastewater Treatment Facility

**Location:** Marlborough, Massachusetts

**Request:** \$500,000

**Purpose:** City of Marlborough, MA Improvements

**Project Description:** The City of Marlborough is seeking funding to upgrade the City's Westerly Wastewater Treatment Facility in compliance with the pending National Pollutant Discharge Elimination System (NDPES) permit state water quality certification. In Marlborough, the city's consultant has evaluated buildout of the city's west side and determined that over the 20-year planning period, the city will require an additional 500,000 gallons of capacity per day at the Westerly plant.

**Potential Recipient:** Pioneer Valley Planning Commission

**Location:** Springfield, Chicopee, Ludlow and South Hadley, Massachusetts

**Request:** \$5,000,000

**Purpose:** Connecticut River Clean-up Project

**Project Description:** This funding will be used for construction and engineering of projects to directly reduce or eliminate combined sewer overflow pollution to the Connecticut River in the five participating communities. These projects will include sewer separation, inline storage facilities, and wastewater treatment facilities.

**Potential Recipient:** Mashpee Wampanoag Tribe

**Location:** Mashpee, Massachusetts

**Request:** \$1,000,000

**Purpose:** Implementation of Basic Health Services

**Project Description:** These funds are needed to begin the delivery of critical health care services. The Mashpee Wampanoag Tribe is entitled to IHS funding as a federally recognized tribe, but which they have not received funding to date.

**Potential Recipient:** Swift River Hydro Operations Company (SRHOCO)

**Location:** Pepperell, MA

**Request:** \$1.5 million

**Purpose:** Pepperell Hydro Penstock Project

**Project Description:** The purpose of the Pepperell Hydro Penstock Project is to replace a wood stave penstock at Pepperell Hydro, a historic operating hydro station built in 1918, to bring its capacity back to 1,920 kW.

**Potential Recipient:** Spire Corporation

**Location:** Bedford, MA

**Request:** \$18 million

**Purpose:** 50MW Automated Supersize PV Module Production Line for Utility Segment

**Project Description:** Based on work with and research from Tucson Electric Power, Spire is proposing to build and demonstrate a 50MW per year supersized 1000 watt module production facility.

**Potential Recipient:** American Superconductor

**Location:** Devens, MA

**Request:** \$6.0 million

**Purpose:** 10 MW Superconductor/Utility-Scale Wind Turbine Development

**Project Description:** The purpose of the 10 MW Superconductor/Utility-Scale Wind Turbine Development Project is to advance the Administration's goals of doubling the amount of wind, solar and geothermal generating capacity within the next 3 years, and to grow wind energy from today's 1% of total energy generation to 20% by 2030.

**Potential Recipient:** USACE – The Nature Conservancy, Massachusetts Chapter

**Location:** Northampton, MA

**Request:** \$450,000

**Purpose:** Connecticut River Watershed Study

**Project Description:** The U.S. Army Corps of Engineers owns and operates 14 flood control dams in the Connecticut River Basin. The Connecticut River Watershed study will analyze the operation of each dam to determine if it is possible to manage these dams for environmental benefits while maintaining important human uses.

**Potential Recipient:** Massachusetts Maritime Academy

**Location:** Buzzards Bay, MA

**Request:** \$1.2 million

**Purpose:** Hydrokinetic Electric Power System Pilot Project

**Project Description:** Massachusetts Maritime Academy (MMA) is seeking federal funds for the construction of a hydrokinetic electric power system, which would utilize the current flow in the adjacent Cape Cod Canal to produce hydrokinetic electric power.

**Potential Recipient:** Qteros, Inc.

**Location:** Springfield, MA

**Request:** \$2.8 million

**Purpose:** Biomass to Clean Fuel: Cellulosic Ethanol Pilot and Pretreatment Project

**Project Description:** With the funding sought in this bill, Qteros proposes to design and build a pretreatment facility and pilot bio-reactor to demonstrate that a variety of non-food feedstocks can be converted into ethanol, such as woody biomass, corn stover and other local waste products, at lower cost than the conventional two-stage ethanol production process.

**Potential Recipient:** Center for Transportation and the Environment

**Location:** Hudson, MA

**Request:** \$1.5 million

**Purpose:** Energy Storage/Conservation and Carbon Emissions Reduction Demonstration Project

**Project Description:** The purpose of the Energy Storage/Conservation and Carbon Emissions Reduction Demonstration Project is to help CTE, a nonprofit with a \$110 million advanced technologies portfolio and more than 15 years experience partnering with DOE, DOT, and other government agencies, and Test Devices, Inc. (TDI), a Massachusetts corporation, to develop and install prototype energy storage technology that could yield substantial energy savings and show American manufacturers how to reduce operation costs.

**Potential Recipient:** Eikos, Inc.

**Location:** Franklin, MA

**Request:** \$2.4 million

**Purpose:** Conductive, Transparent Coatings for Solar Cells

**Project Description:** The purpose of the project is to further efforts by Eikos and the Department of Energy to develop an entirely new type of conductive, transparent electrodes for collecting electrical charge in photovoltaic cells.

**Potential Recipient:** T2 Biosystems

**Location:** Cambridge, MA

**Request:** \$2.5 million

**Purpose:** Rapid Detection of Contaminants in Water Supplies Using Magnetic Resonance and Nanoparticles

**Project Description:** This funding is requested to support a 3-year development project to produce a rugged portable instrument and to develop a broad range of diagnostic tests for the detection of water contamination, using Cholera as the first organism.

**Potential Recipient:** Western New England College

**Location:** Springfield, MA

**Request:** \$2.5 million

**Purpose:** Next Generation Wind Turbine Development Project

**Project Description:** This project conducted in partnership with Flodesign Wind Turbine, Inc., will lead to the next generation of wind turbine technology by supporting the fabrication of a scale prototype, a large scale model and testing in a real world environment.

**Potential Recipient:** Incorporated Research Institutions for Seismology

**Location:** Waltham, MA

**Request:** \$5.2 million

**Purpose:** Global Seismographic Network Equipment Renewal

**Project Description:** The US Global Seismographic Network (GSN) is the fundamental national system for seismic monitoring, research, and educational training. The entire network of 150 stations transmits data in real-time to the US, where the data are openly available to all government, public, and private researchers. This funding is requested to support these efforts.

**Potential Recipient:** Nanobiosym

**Location:** Medford, MA

**Request:** \$10.1 million

**Purpose:** The MOSI ENERGE New Energy Research Project

**Project Description:** The NBS-MOSI ENERGE Project is a partnership between Nanobiosym, Incorporated of Medford, Massachusetts and the Museum of Science and Industry (MOSI) of Tampa, Florida that is dedicated to educating the public and harnessing new energy research to stimulate the global economy.

**Potential Recipient:** Massachusetts Museum of Contemporary Art Foundation, Inc.

**Location:** North Adams, MA

**Request:** \$3.3 million

**Purpose:** Mass Moca Solar Center Project

**Project Description:** The Massachusetts Museum of Contemporary Art (MASS MoCA) is developing the Mass Moca Solar Center to showcase large-scale, multi-building solar energy technologies. It will serve as a national training center for facility managers of large campuses, building and electrical inspectors, system integrators, policy makers, vocational-technical teachers, equipment manufacturers, specialized installers, and alternative energy entrepreneurs.

**Potential Recipient:** Aspen Aerogels, Inc.

**Location:** Northborough/Medford, MA

**Request:** \$600,000

**Purpose:** Fluid Flow Optimization of Aerogel Blanket Process Project

**Project Description:** With this requested funding, Aspen Aerogels and Tufts University will conduct research and development to focus on reducing the cost of high performance aerogel blanket insulation manufacturing through an optimization of the fluid flow portion of the manufacturing process.

**Potential Recipient:** University of Massachusetts- Amherst

**Location:** Amherst, MA

**Request:** \$240,000

**Purpose:** Creating Effective Incentives for Green Investments: Maximizing Benefits for Households and Businesses from a Clean-Energy Transformation

**Project Description:** With DOE support, UMASS has been conducting research to design a transition to a clean-energy economy to create the optimum number of quality domestic jobs through green investments in conservation and renewable energy.

**Potential Recipient:** Pioneer Valley Life Science Institute

**Location:** Springfield, MA

**Request:** \$5 million

**Purpose:** Pioneer Valley Life Science Institute Translational Biomedical Research

**Project Description:** The purpose of the Pioneer Valley Life Science Institute Translational Biomedical Research Project is to support translational research being performed at the Pioneer Valley Life Science Institute, which offers promise for addressing a host of diseases that affect the length and quality of American lives.

**Potential Recipient:** UMASS-Boston

**Location:** Boston, MA

**Request:** \$1,000,000

**Purpose:** Marine Systems Energy/Environmental Sustainability Research

**Project Description:** For the past several years, UMASS-Boston conducted research into the development and sustainability of marine systems, with a particular focus on the process of photosynthesis.

**Potential Recipient:** Practical Solar, Inc.

**Location:** Boston, MA

**Request:** \$500,000

**Purpose:** Thermal Heliostat System Development

**Project Description:** This funding is sought to help Practical Solar, Inc. to develop the world's first solar product that will compete directly with fossil fuels in mainstream thermal applications. The project will scale up and reduce the cost of Practical Solar's existing product – the world's first hand-installable heliostat system.

**Potential Recipient:** UMASS Medical School

**Location:** Worcester, MA

**Request:** \$2,000,000

**Purpose:** RNAi Research

**Project Description:** UMASS Medical School is seeking funding to support research associated with RNAi (RNA interference), a mechanism that inhibits gene expression at the stage of translation or by hindering the transcription of specific genes. RNAi has become a premier research tool across the entire range of biological fields, based on its specificity and potency in silencing gene expression in both primary and cultured cell systems.

**Potential Recipient:** Cape Cod Community College

**Location:** Barnstable, MA

**Request:** \$500,000

**Purpose:** Cape Cod Community College Renewable Energy Research Center Development

**Project Description:** Cape Cod Community College (CCCC) has delivered environmental technology courses to more than 4,000 students since 1995. In the past seven years, the college has developed renewable energy courses and workforce training programs to those employed in the energy filled green construction and renewable energy industries. This funding will be used to support those courses and associated research.

**Potential Recipient:** Lilliputian Systems, Inc.

**Location:** Wilmington, MA

**Request:** \$4,000,000

**Purpose:** Silicon Based Oxide Fuel Cell Chip for Portable Consumer Electronics

**Project Description:** This funding is requested to continue DOE's work with Lilliputian Systems Inc. (LSI), which is developing a revolutionary miniature fuel cell. The company's breakthrough *Fuel Cell on a Chip*<sup>TM</sup> technology enables the only form-factor battery replacement for portable electronic devices that provides an order-of-magnitude run-time improvement over traditional batteries and other energy storage technologies.

**Potential Recipient:** 1366 Technologies

**Location:** Lexington, MA

**Request:** \$5,000,000

**Purpose:** Solar Cast Wafer Research and Development

**Project Description:** This funding is requested to support the Solar Cast Wafer Research and Development Project that has the potential to dramatically reduce the cost of solar panels, and thereby reduce our Nation's demand for foreign sources of fuel.

**Potential Recipient:** North American Die Casting Association

**Location:** Worcester, MA

**Request:** \$3,000,000

**Purpose:** HyperCAST R&D for Vehicle Energy Efficiency Through Cast Metal Auto-Combustion Synthesis

**Project Description:** HyperCAST research will develop die casting alloy composite matrix materials and processes for high strength light-weight cast components for vehicles (commercial and military) that will result in significant fuel efficiency improvements, greater use of alternative fuels, and a corresponding reduction of carbon emissions.

**Potential Recipient:** Wilson TurboPower

**Location:** Woburn, MA

**Request:** \$1.45 million

**Purpose:** Concentrating Solar Power (CSP) Microturbine Development Project

**Project Description:** The purpose of the Concentrating Solar Power (CSP) Microturbine Development Project is to complete the fabrication of a concentrating solar power (CSP) ceramic microturbine, after a nine-month period of development, test, and evaluation. The CSP microturbine project aims to improve the efficiency of large scale solar energy generation by 30 to 40 percent.

**Potential Recipient:** City of Boston

**Location:** Boston, MA

**Request:** \$2,000,000

**Purpose:** City of Boston Municipal Solar Energy Savings Project

**Project Description:** This funding is requested to support a model municipal energy savings and efficiency project by the City to install state-of-the-art solar-powered recycling units throughout Boston to demonstrate substantial fuel and vehicular green house gas emissions savings. The City will conduct a comprehensive analysis of the project's impacts and create a manual to show other municipalities how to effectively deploy such energy saving measures.

**Potential Recipient:** Dynamet Technology, Inc.

**Location:** Burlington, MA

**Request:** \$1,800,000

**Purpose:** Green Manufacturing of Low Cost Titanium Automotive Powertrain Components to Yield Increased Fuel Efficiency and Reduced Emissions

**Project Description:** This project will utilize the cost-effective, environmentally friendly innovative titanium powder manufacturing technology developed by Dynamet Technology, Inc. to produce critical automotive powertrain components in titanium. This new approach should help reduce the weight of motor vehicles and upgrade fuel efficiency.

**Potential Recipient:** MassPort

**Location:** Boston, MA

**Request:** \$3,750,000

**Purpose:** Port of Boston Shore Power Project

**Project Description:** The Massachusetts Port Authority seeks to conduct a feasibility study to assess and construct infrastructure to support the provision of shore power to certain public

marine terminals in the Port of Boston. The project will specifically focus on the Conley Container Terminal, the Black Falcon Cruise Terminal/CruisePort Boston and the Boston Fish Pier.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$10,000,000

**Purpose:** Muddy River, Brookline and Boston

**Project Description:** The Muddy River Project is a WRDA Authorized flood control and environmental restoration project that is needed to remove sediment that has made Boston's Back Bay Fens a flood control hazard in recent decades. A flood there in 1996 caused tens of millions of damages to the City of Boston.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$500,000

**Purpose:** Milford Pond Restoration

**Project Description:** The purpose of this project is to restore Milford Pond to ecological health after decades of heavy sedimentation that have made the pond a "dead pond" with heavy algae and low oxygenation levels.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$195,000

**Purpose:** North River, Peabody

**Project Description:** The purpose of this project is to devise mitigation measures to prevent the flooding that has occurred more than 10 times in the last fifty years in downtown Peabody and which has caused tens of millions in damages. The requested funds are expected to be used to complete the design phase of this project.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$10,000,000

**Purpose:** Boston Harbor, MA

**Project Description:** The purpose of this project is to continue maintenance dredging of Boston Harbor, which is badly needed to prevent continued siltation and promote trade.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$1,000,000

**Purpose:** Woods Hole, Great Harbor, Woods Hole, MA

**Project Description:** The purpose of this project is to remove siltation from the federally maintained navigation channels at Woods Hole, Massachusetts which currently poses a safety risk to mariners and which prevents the berthing of a federal research vessel badly needed to conduct cutting-edge ocean and fisheries management science.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$900,000

**Purpose:** Newburyport Harbor Entrance Channel Maintenance Dredging, MA

**Project Description:** This federal maintenance dredging project is needed to restore the entrance channel to its congressionally-authorized dimensions. The project entails the removal of about 130,000 cubic yards of sand from the channel, with disposal at a near shore site approximately one mile away.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$3.1 million

**Purpose:** Newburyport Harbor South Jetty Maintenance, MA

**Project Description:** U.S. Army Corps of Engineers estimates that about 4,800 cubic yards of stone needs to be replaced to restore the South Jetty to its authorized dimensions. This project is necessary to prevent additional beach breaches and increased vulnerability to storm and hurricane surges that could endanger property and lives.

**Potential Recipient:** USACOE- New England Division

**Location:** Concord

**Request:** \$9,000,000

**Purpose:** Newburyport Harbor North Jetty Maintenance, MA

**Project Description:** The North Jetty for the entrance to Newburyport Harbor, located at the south end of Salisbury Beach, is in need of repair. The U.S. Army Corps estimates that about 15,000 cubic yards of stone needs to be replaced to bring the project back to authorized dimensions.

**Potential Recipient:** Alphamed

**Location:** Acton, MA

**Request:** \$2.5 million

**Purpose:** Targeted Radiotherapy for Melanoma

**Project Description:** The overall objective is to support the development of a new targeted radiotherapy treatment for melanoma. Funds will be used to complete preclinical tests, demonstrate radiopharmaceutical production to regulatory requirements, prepare clinical trial sites, and submit an Investigational New Drug application to the FDA.

**Potential Recipient:** Eligible Patent and Trademark Office Applicants  
**Location:** Nationwide  
**Purpose:** To provide limited authority to prevent simple administrative filing errors made from terminating promising medical research  
**Request:** Legislative Language  
**Project Description:** This request would provide the Patent and Trademark Office with limited authority to grant patent extensions in the rare instances in which such applications are determined to have been submitted late as a result of unintentional error. Under this request, the Director could accept such applications if they were filed not more than three business days after the closure of the standard 60-day filing period if the Director were to determine that unintentional error was the cause of such failure and if the applicant agreed to pay a fee equal to \$65 million or an amount the Director determined necessary to prevent such an extension from having any budgetary impact on the United States Government. This request was made to prevent the unnecessary termination of promising research into potentially lifesaving new medical therapies as the result of unintentional administrative error.

**Potential Recipient:** BBN Technologies  
**Location:** Cambridge, MA  
**Purpose:** Acoustic Gun Detection System for Tracked Combat Vehicles  
**Request:** \$2,000,000  
**Project Description:** When Soldiers, Airmen or Marines are in their HMMWVs, Stryker's, or MRAP vehicles, the Boomerang Gunfire Detection and Location System can provide them immediate information on the shooter's location. Soldiers serving in OEF and OIF have requested this same protection on their Bradley Fighting Vehicles.

**Potential Recipient:** Massachusetts General Hospital  
**Location:** Boston, MA  
**Purpose:** Advanced Biomolecules to Treat Wounded Soldiers  
**Request:** \$1,600,000  
**Project Description:** The technologies in the present application will help provide means to improve the survivability of our wounded service men and women. The US Department of Defense Guidance for Development of the Force identifies this as the top priority in military healthcare R&D.

**Potential Recipient:** Superconducting Systems, Inc.  
**Location:** Billerica, MA  
**Purpose:** Advanced Brush Technology  
**Request:** \$6,000,000  
**Project Description:** This project will support both development and testing of advanced brushes on current fleet assets. The goal is to increase readiness of the Navy's fleet and reduce maintenance costs.

**Potential Recipient:** iRobot Corporation  
**Location:** Bedford, MA  
**Purpose:** Advanced Capabilities for the Battle-Proven PackBot

**Request:** \$4,000,000

**Project Description:** Military robots 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.

**Potential Recipient:** AdMeTech Foundation

**Location:** Boston, MA

**Purpose:** Advanced Diagnostic and Therapeutic Digital Technologies

**Request:** \$4,000,000

**Project Description:** This project will support specific prostate cancer imaging research projects at leading partner institutions and will continue to bring leading researchers together for continued meetings at which novel research ideas are presented and prioritized.

**Potential Recipient:** Honeywell

**Location:** Natick, MA

**Purpose:** Advanced Fiber - Personal Body Armor Technology

**Request:** \$5,000,000

**Project Description:** Personal body armor adds approximately 30 pounds of weight to the already heavy load that the soldier on the ground must carry in combat situations. Development of new and improved protection for the warfighter that provides the same or better protection at a much lighter weight is needed to relieve the individual of the added weight and bulk of the current body armor.

**Potential Recipient:** Warren Pumps, Inc.

**Location:** Warren, MA

**Purpose:** Advanced Fuel Filtration System

**Request:** \$3,200,000

**Project Description:** This advanced system is comprised of an upgraded transfer pump and a new filtration system.

**Potential Recipient:** Nanobiosym

**Location:** Medford, MA

**Purpose:** Advanced Gene Based Diagnosis of Infectious Diseases

**Request:** \$5,000,000

**Project Description:** Funding will be used to develop and test new assays for DNA/RNA detection and diagnosis for critical threats to military health protection, including malaria, bacterial diseases such as Shigella, Enterotoxigenic Escherichia Coli (ETEC), and Campylobacter, and viral diseases like Dengue Fever and Hantavirus.

**Potential Recipient:** Force Protection/Satcon Applied Tech

**Location:** Ladson, SC; Boston, MA

**Purpose:** Advanced Hybrid Electric Vehicle Technologies

**Request:** \$9,000,000

**Project Description:** The overall objective of this proposed work is to develop and deliver a complete family of MRAP vehicles (one Buffalo, one Cougar and one Cheetah)

capable of remote, mobile silent power generation and silent watch power. The on-board power generation capability will enable concurrent operation of a suite of weapons and sensor systems, while the on-board energy storage system would enable silent charging of radios, robots, single soldier equipment and other military equipment with the engine off.

**Potential Recipient:** American Science & Engineering  
**Location:** Billerica, MA  
**Purpose:** Advanced Inspection Technology  
**Request:** \$6,000,000  
**Project Description:** Appropriated funds will be used to test and evaluate Z Portal inspection systems at USMC Camp's Pendleton and Lejeune.

**Potential Recipient:** Foster-Miller, Inc. and Liberating Technologies  
**Location:** Waltham and Holliston, MA  
**Purpose:** Advanced Lower Limb Prostheses for Battlefield Amputees  
**Request:** \$5,000,000  
**Project Description:** With oversight from the U.S. Army Medical Research and Materiel Command Telemedicine and Advanced Technology Research Center (TATRC), a team of Massachusetts companies including Foster-Miller, Inc. (Waltham), InnerSea Technology (Bedford), and Liberating Technologies (Holliston), is developing a biologically-controlled, powered artificial limb that will restore full motor and sensory capability to lower extremity amputee patients. This revolutionary prosthesis will feel, look, and perform like the native limb.

**Potential Recipient:** DRS Power Technology, Inc.  
**Location:** Fitchburg, MA  
**Purpose:** Advanced Steam Turbine  
**Request:** \$7,500,000  
**Project Description:** The Advanced Steam Turbine presents as much as a 40% reduction in cost over current technology. Through improved manufacturing and engineering processes, leveraged from commercial steam turbine development at Dresser-Rand, the efficiencies of the advanced steam turbine will allow the US Navy to achieve a higher operational readiness (higher lifetime readiness) without requiring replacement of nuclear fuel.

**Potential Recipient:** Mikel Inc.  
**Location:** Fall River, MA  
**Purpose:** Advanced Tactical Control System  
**Request:** \$5,000,000  
**Project Description:** This technology automatically fuses contact data derived directly from raw acoustic energy measured by sensors with environmental, bathymetric and geographic data to eliminate locations where contacts are hard to find. This novel approach eliminates combat system complexity, associated development and manning costs, and represents a quantum leap forward in the development of automatic data fusion systems.

**Potential Recipient:** Black-I Robotics, Inc.  
**Location:** Tyngsborough, MA  
**Purpose:** Affordable Robust Mid-Sized Unmanned Ground Vehicle  
**Request:** \$4,000,000  
**Project Description:** This funding will improve our Unmanned Ground Vehicle capabilities in both defense and homeland security. This technology will work to combat vehicle borne IEDS and other weapons.

**Potential Recipient:** Weston Geophysical Corp.  
**Location:** Hanscom AFB, MA  
**Purpose:** Air Force Research Laboratory Seismic Research Program  
**Request:** \$23,000,000  
**Project Description:** The Air Force Research Laboratory conducts the only DOD seismic research program to support the Air Force's mission to monitor the world for clandestine nuclear explosions. The Air Force Technical Applications Center has nearly doubled the number of its globally located seismic arrays to meet its monitoring requirements, but it needs to improve its ability to understand complicated regional seismic signals from small nuclear tests, such as those to be detected under the Comprehensive Test Ban Treaty, in order to properly interpret the data from its arrays. The goal of the AFRL seismic research program is to ensure that the Air Force possesses the most effective National Technical Means capability for monitoring all foreign nuclear explosions.

**Potential Recipient:** Surmet Corporation  
**Location:** Burlington, MA  
**Purpose:** ALON and Spinel Optical Ceramics  
**Request:** \$9,850,000  
**Project Description:** The objective of this effort is to create an integrated domestic manufacturing capability to produce Aluminum Oxy-Nitride and Spinel Optical Ceramic components in large quantity and size at an affordable price.

**Potential Recipient:** ALS Therapy Development Institute  
**Location:** Cambridge, MA  
**Purpose:** ALS Therapy Institute Gulf War Research Project  
**Request:** \$4,800,000  
**Project Description:** Several studies have concluded that veterans of the first Gulf War can 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. ALS-TDI hopes to provide cutting edge fast track recovery and translational research and support to clinical trials of effective drugs.

**Potential Recipient:** Protonex Technolgy Corporation  
**Location:** Southborough, MA  
**Purpose:** Alternative Fuel Portable Power Systems  
**Request:** \$3,900,000

**Project Description:** Electronic content is increasing on soldiers and on battlefield equipment/devices and battery technologies are unable to effectively provide power for the required mission durations. For higher power needs, internal combustion engines can provide the required power but only with excessive weight, unacceptable audible noise and traceable emissions. This funding request will support the development of reformer-based fuel cell power systems that can provide light, clean, quiet and efficient power for a range of critical portable military missions and devices.

**Potential Recipient:** kSaria

**Location:** Lawrence, MA; Virginia Beach, VA

**Purpose:** Automated Fiber Optic Manufacturing Initiative

**Request:** \$5,200,000

**Project Description:** The Automated Fiber Optic Manufacturing Initiative is a follow-on program that addresses the two main problems affecting larger scale deployment of fiber optic technology aboard naval ships: (1) Quality/ Reliability/ Cost concerns and (2) Field Installation/ Field Maintenance issues.

**Potential Recipient:** General Dynamics AIS

**Location:** Pittsfield and Westwood, MA

**Purpose:** Autonomous Vehicle/Sensor Tubular Solid Oxide Fuel Cell

**Request:** \$3,500,000

**Project Description:** The advanced tubular solid oxide fuel cell has recently passed all performance hurdles in the DOE Solid State Energy Conversion Alliance Phase I demonstration and, once development is complete, will be an ideal energy source for high endurance unmanned autonomous naval vehicles and distributed netted sensors.

**Potential Recipient:** Acumentrics Corporation

**Location:** Westwood, MA

**Purpose:** Battlefield Kitchen Fuel Cell Generator

**Request:** \$2,000,000

**Project Description:** This project would develop a reliable fuel cell generator for the battlefield kitchen.

**Potential Recipient:** Boston-Power, Inc.

**Location:** Worcester, MA

**Purpose:** Boston-Power Lithium-Ion Facility

**Request:** \$100,000,000

**Project Description:** Funding would build a United States based manufacturing facility capable of supplying 600 MW per year and at least 3 million Sonata Lithium-ion cells per month for notebook batteries and portable power applications for the military. The Sonata battery is the fastest charging, longest-lasting and safest portable battery and has a number of potential military applications.

**Potential Recipient:** Boston University Photonics Center

**Location:** Boston, MA

**Purpose:** Combat Optical Biothreat Rapid Analyzer

**Request:** \$6,700,000

**Project Description:** The Boston University Photonics Center is a premiere national asset providing groundbreaking technology development based on the science and engineering of light. Working with the Department of Defense, the Photonics Center provides rapid access to advanced technologies where payoffs are high and success may deliver dramatic advances in warfighter capability.

**Potential Recipient:** Northeastern University

**Location:** Boston and Woburn, MA

**Purpose:** Carbon Nanotube Enhanced Power Sources for Space

**Request:** \$9,900,000

**Project Description:** Northeastern University and its Massachusetts team have developed expertise in 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.

**Potential Recipient:** Center for Integration of Medicine and Innovative Technology

**Location:** Boston, MA

**Purpose:** Center for Integration of Medicine and Innovative Technology

**Request:** \$25,000,000

**Project Description:** Center for Integration of Medicine and Innovative Technology's overall goal is to capture the collective talent and broad expertise of its consortium members and bring together interdisciplinary teams in collaboration with DoD to address the needs of our injured soldiers.

**Potential Recipient:** Textron Systems Corporation

**Location:** Wilmington, MA

**Purpose:** Clean Lightweight Area Weapon

**Request:** \$5,000,000

**Project Description:** The Clean Lightweight Area Weapon accomplishes its mission with an insensitive munition explosive-filled blast fragmentation and incendiary warhead that detonates approximately sixteen feet above the ground. Each Clean Lightweight Area Weapon produces over two thousand small fragments covering a nominal 300-foot diameter area. Redundant self-destruct systems and a battery timeout feature are incorporated into each Clean Lightweight Area Weapon to ensure a clean battlefield.

**Potential Recipient:** DocBox, Inc.

**Location:** Waltham, MA

**Purpose:** Clinical Technology Integration for Military Health

**Request:** \$8,100,000

**Project Description:** This request is a system that will provide clinical staff in military health facilities with a single integrated point of care presentation and a continuous

record of patient activity. This will advance medical records technology and improve the caregiver's ability to diagnose and treat patients while reducing mistakes.

**Potential Recipient:** Triton Systems, Inc  
**Location:** Chelmsford, MA; Fargo, ND  
**Purpose:** Coatings for Protection Against Bio-Threats  
**Request:** \$3,000,000  
**Project Description:** The goal of the project is to develop a novel bioactive coating that mitigates the growing threat of biological agents by integrating atmospheric pressure liquid and screening biocidal coating. This will reduce the logistical burden to the warfighter or civilian personnel when responding to threats of biological agents.

**Potential Recipient:** Polartec, LLC  
**Location:** Lawrence, MA  
**Purpose:** Cold Weather Layering System  
**Request:** \$5,000,000  
**Project Description:** The Cold Weather Layering System for battlefield clothing improves individual mobility, survivability and sustainability of Marines in cold weather combat by incorporating the latest in textile technology.

**Potential Recipient:** University of Massachusetts Lowell  
**Location:** Lowell, MA  
**Purpose:** Combat Ration Supplements for Improved Physical and Cognitive Performance Using Nanodelivery Systems to Improve Bioavailability  
**Request:** \$2,000,000  
**Program Description:** Rutgers University and the University of Massachusetts Lowell are working together with the Natick Research Development and Engineering Center to continue the development of high quality functional combat rations for our nation's warfighter. This funding would support these effects.

**Potential Recipient:** Lockheed Martin, Sippican, Inc.  
**Location:** Marion, MA  
**Purpose:** Communications at Speed and Depth  
**Request:** \$5,000,000  
**Project Description:** This request would improve the effectiveness of submarine platforms by enabling 2-way communications that support network centric warfare. This funding would have a positive impact on Navy and Coalition warfare by increasing the submarine's communications ability.

**Potential Recipient:** International Compliance Systems  
**Location:** New Bedford, MA  
**Purpose:** Comprehensive Mishap Reduction System  
**Request:** \$5,400,000

**Account:** Operations and Maintenance, Air Force

**Project Description:** The Comprehensive Mishap Reduction System is a web-based information management system that enables military officers at all levels in the chain-of-command to prevent avoidable accidents among personnel under their command. The system identifies and provides paths to mitigate high-risk practices, procedures, conditions, and attitudes before accidents occur. The program is a key initiative of the Defense Safety Oversight Council, the body responsible for overseeing the DoD-wide mishap reduction effort.

**Potential Recipient:** Covanta Energy

**Location:** Haverhill, MA

**Purpose:** Conversion of Municipal Solid Waste to Renewable Diesel Fuel

**Request:** \$3,150,000

**Project Description:** This project objective is to perform further research and development on technology that utilizes biologically regenerated materials like agricultural waste, municipal landscape clippings, switch grass, paper, and other nonfood plant products, and hydrocarbon waste products, as feedstocks to produce mineral quality liquid diesel fuel that can be used in modern clean-burning diesel combustion engines with the ultimate goal of converting waste to renewable fuel.

**Potential Recipient:** Cure Alzheimer's Fund

**Location:** Wellesley Hills, MA

**Item Name:** Cure Alzheimer's Fund TBI-Alzheimer's Disease Research Project

**Request:** \$300,000

**Project Description:** Cure Alzheimer's Fund is seeking federal support to begin coordinated and in-depth research into the link between Traumatic Brain Injury and the development of Alzheimer's disease. It is hoped that understanding the linkage, researchers can reduce the suffering experienced by service members suffering from TBI.

**Potential Recipient:** Goodrich ISR Systems

**Location:** Chelmsford, MA

**Purpose:** DB-110 on MQ-9

**Request:** \$32,000,000

**Project Description:** This program will procure an MQ-9/DB-110 system and its corresponding ground equipment for the US Navy. The DB-110 sensor will be integrated onto an MQ-9 Reaper to augment the platform's existing sensors with a long range wide area search/cueing capability. Equipment procured through this program includes an MQ-9, a DB-110 sensor, an Airborne Server, a Satcom C2 and Imagery interface, a DB-110 system control workstation, and a DB-110 imagery exploitation workstation.

**Potential Recipient:** DRS Power Technology, Inc.

**Location:** Fitchburg, MA

**Purpose:** DDG 51 Hybrid Drive System

**Request:** \$9,300,000

**Project Description:** This program has the potential to significantly reduce fuel consumption and maintenance costs while increasing mission effectiveness of the Navy's

DDG 51 Class of ships with a projected approximate savings of between \$2M and \$4M per ship, per year.

**Potential Recipient:** Aurora Imaging Technology, Inc.

**Location:** North Andover, MA

**Purpose:** Dedicated Breast MRI System for Madigan Army Medical Center

**Request:** \$3,565,000

**Project Description:** A dedicated breast MRI system is needed at Madigan to enable its Breast Diagnostic Center to fully meet patient needs. Madigan is the cornerstone of military health care for the Pacific Northwest. There are approximately 160,000 soldiers, family members and military retirees residing in Madigan's 40-mile catchment area. This project will procure a dedicated breast MRI system from Aurora Imaging technology for the Breast Diagnostic Center.

**Potential Recipient:** Hittite Microwave Corporation

**Location:** Chelmsford, MA; Colorado Springs, CO

**Purpose:** Delta Sigma Direct Digital Synthesizer

**Request:** \$3,800,000

**Project Description:** This project will improve radar performance and capability in identifying ballistic missile threats by improving the dynamic range and lessening the amount of time necessary to appropriately respond to the threats.

**Potential Recipient:** Neurofibromatosis, Inc. Northeast

**Location:** Mansfield, MA

**Purpose:** Department of Defense Neurofibromatosis Research Program

**Request:** \$20,000,000

**Project Description:** The Army Neurofibromatosis Research Program supports basic and clinical neurofibromatosis research that will lead to substantial improvement of the current understanding, diagnosis, and treatment of NF.

**Potential Recipient:** Cobham Defense Systems

**Location:** Lowell, MA

**Purpose:** Dismounted Soldier Combat Identification

**Request:** \$4,950,000

**Project Description:** The requested funding will be used for research, development, testing and evaluation to leverage available technology for the development of low cost soldier combat identification in an effort to provide precise fire to the Light Infantry Soldier. This will increase survivability and precision.

**Potential Recipient:** Massachusetts General Hospital

**Location:** Boston, MA

**Purpose:** Early Treatment of Severe Traumatic Brain Injury

**Request:** \$1,000,000

**Project Description:** Traumatic brain injury is the second most common cause of death in the military theatre and the most common cause of preventable morbidity. The Department of Defense Guidance for Development of the Force identifies this as a top

priority in military healthcare R&D. There are currently no prehospital treatments that effectively minimize this injury. This proposal is meant to develop easily deployable treatment strategies to minimize the effects of brain injury.

**Potential Recipient:** Arradance, Inc.

**Location:** Sudbury, MA

**Purpose:** Emissive and Resistive Thin Film Processing of Microchannel Plates for Gen III Night Vision Image Intensifiers

**Request:** \$3,000,000

**Project Description:** This project will develop, test and prototype thin film functionalized microchannel plates for improved resolution and reduced processing costs of Gen III image intensifier tubes for military Night Vision.

**Potential Recipient:** Northeastern University

**Location:** Boston, MA

**Purpose:** Energy Harvesting for Aerospace and Satellite Applications

**Request:** \$9,100,000

**Project Description:** Northeastern University and its partners at the Center for High Rate Nanomanufacturing have expertise in the development of infrared antennas to harvest solar energy. These antennas will be designed to be lightweight and flexible, will require no maintenance, and will be able to be integrated into existing systems at locations that are currently difficult if not impossible to access.

**Potential Recipient:** PM Force Sustainment Systems and Shelters Directorate

**Location:** Natick, MA

**Purpose:** Energy Use & Optimization Testbed

**Request:** \$30,000,000

**Project Description:** PM Force Sustainment Systems has determined that the organizational systems (kitchens, showers, laundries, latrines) deployed in Rear and Forward Operating Bases are not very efficient. The typical Force Provider Base Camp sustains 500 soldiers and consumes more than 2000 gallons of fuel/day and 10's of thousand of gallons of water while producing more than ton of solid waste each day. To address some of these problems, the PM has developed a shower water reuse system and is examining available waste remediation and waste to energy technologies.

**Potential Recipient:** Lower Pioneer Valley Educational Collaborative

**Location:** West Springfield, MA

**Purpose:** Engineering, Manufacturing, and Technology Program

**Request:** \$1,621,050

**Project Description:** The Department of Defense is confronted with challenges in educating and training individuals in manufacturing and technological disciplines that are critical to the national security functions of the department. The engineering, manufacturing and technology program will provide students with a two year foundation in the design and manufacturing components used in numerous industrial applications to support national security objectives.

**Potential Recipient:** DRS Power Technology, Inc.

**Location:** Fitchburg, MA

**Purpose:** Fan Coil Assembly of the Future

**Request:** \$3,400,000

**Project Description:** DRS Power Technology Inc. will develop and demonstrate a Fan Coil Assembly of the Future to support U.S. Navy shipboard Heating, Ventilation and Air Conditioning Systems, that will result in 25-50% increased cooling capacity, 25-50% weight reduction, lower life cycle costs and improved supply chain flexibility.

**Potential Recipient:** L-3 Communications, IOS

**Location:** Southborough, MA

**Purpose:** Fast Steering Mirror Adjunct for Naval High Energy Laser Weapons

**Request:** \$4,860,000

**Project Description:** This program should provide several benefits to DoD and our soldiers in the field. One is significantly increasing the probability of destroying the target and increasing the spectrum of threats that can be countered. A second benefit is that these accuracy and reaction time improvements will be capable of supporting not just Navy HEL systems, but will be standardized to support emerging Army and Air Force HEL weapons, thus providing cost savings through production economies of scale.

**Potential Recipient:** Triton Systems, Inc

**Location:** Chelmsford, MA; Milwaukee, WI

**Purpose:** Fire and Blast Resistant Materials for Force Protection

**Request:** \$3,400,000

**Project Description:** There is an urgent need to develop and integrate fire/blast resistant technologies for at risk structures in order to reduce injuries and better protect building/shelter occupants. The result of this effort will be a substantial improvement in the security and safety of our armed forces and civilian population by providing protection from terrorist attacks and reducing the risk of fire with non-toxic fire retardants.

**Potential Recipient:** Mechanology, Inc

**Location:** Attleboro, MA

**Purpose:** Fuel Logistics Reduction through Enhanced Engine Performance

**Request:** \$3,000,000

**Project Description:** Working closely with the Army's Vehicle Technology Directorate this initiative will increase fuel efficiency by utilizing engine waste heat to generate mechanical and/or electric power. The technology has demonstrated the ability to utilize the waste heat such that electrical generation of a stationary genset can be increased by as much as 10-15% with no additional fuel.

**Potential Recipient:** Raytheon Company

**Location:** El Segundo, CA for MA Air National Guard

**Purpose:** F-15C AESA for Air National Guard

**Request:** \$62,400,000

**Project Description:** The Air National Guard has identified 48 aircraft required for an upgrade of radars to the Active Electronically Scanned Array configuration. This upgrade will provide greater reliability and maintainability.

**Potential Recipient:** Kollmorgen Electro-Optical

**Location:** North Hampton, MA

**Purpose:** HALO - 360 Degree Imaging for Submarines

**Request:** \$2,600,000

**Project Description:** The Navy has an operational requirement for a passive real time 360 degree imaging capability for situational awareness in contact dense environments capable of identifying a tanker to provide for size target at five miles and small fishing boat type targets at one mile. HALO-360 is a 360 degree non-rotating imaging module that allows the submarine to observe all contacts instantaneously without rotation of either the periscope or the photonics mast.

**Potential Recipient:** Epic Technologies

**Location:** Woburn, MA

**Purpose:** High Density Module Technology

**Request:** \$4,000,000

**Project Description:** This project develops high density electronics module technology to improve the mass memory and processor systems used in a variety of applications, principally satellites.

**Potential Recipient:** Aspen Aerogels

**Location:** Northborough, MA

**Purpose:** High-Durability Aerogel Insulation for Special Operations

DiveSuits

**Request:** \$5,200,000

**Project Description:** The High-Durability Aerogel Insulation for Special Operations Dive Suits project will help extend the mission life of Special Operations divers.

**Potential Recipient:** QM Power, Inc.

**Location:** Boston, MA; Greenwood, MO

**Purpose:** High Efficiency, High Power Density Alternators for Advanced Military Generators

**Request:** \$2,000,000

**Project Description:** This three year program will develop a line of high-efficiency, high-power density alternators for use in current and next generation military generator sets. The program is initially targeted at the DoD's line of 3kW generators, which currently underperform their baseline requirement by 10%. The advanced alternator developed in this project will increase the electrical power output of the 3kW Tactical Quiet Generator Set from the current 2.7kW to 3kW and decrease the weight and volume of the generator by at least 30% compared to the existing alternatives.

**Potential Recipient:** Wakonda Technologies, Inc.

**Location:** Woburn, MA

**Purpose:** High Efficiency Solar Generators for Aerospace Electric Power  
**Request:** \$3,400,000  
**Project Description:** The technology will be demonstrated initially in current Army projects and will allow the low-cost, high volume manufacturing of flexible solar arrays for deployment in critical military applications.

**Potential Recipient:** SCHOTT North America, Inc.  
**Location:** Southbridge, MA  
**Purpose:** High Performance Fiber Laser Gain Media  
**Request:** \$4,000,000  
**Project Description:** The objective of the High Performance Fiber Laser Gain Media project will be to develop high gain fiber laser material, a key enabling technology for the next generation of laser weapons systems. The Army Research Lab is currently working to develop a 100 kilowatt output single fiber laser with a high quality beam that is eye-safe at high energies. Currently, there is no fiber material available to meet these requirements.

**Potential Recipient:** American Superconductor  
**Location:** Devens, MA  
**Purpose:** High Temperature Superconducting Degaussing Cable for Littoral Combat Ship  
**Request:** \$7,000,000  
**Project Description:** To fill the urgent requirement for a light weight degaussing system the Office of Naval Research together with NSWC Naval Surface Warfare Center, Carderock Division and private industry have developed a Superconductor Degaussing System yielding a 50% weight reduction of the copper based Advanced Degaussing System. A test loop of this system was successfully installed on the USS Higgins DDG-76 in 2007 and qualification of a full system is in progress at NSWC Philadelphia. The system is now ready for deployment on naval warships with the most urgent need being deployment on the Littoral Combat Ship.

**Potential Recipient:** Nano-Terra, Inc.  
**Location:** Cambridge, Massachusetts  
**Purpose:** Highly Efficient Nanowire Based Anti-Reflective Coatings for Missile Seeker Optics  
**Request:** \$2,100,000  
**Project Description:** Anti-reflective coatings are required for diverse applications in military settings. On dim, and thereby more power-efficient displays, anti-reflective coatings reduce glare and permit better visualization of the display in bright conditions protecting the position of warfighters and vehicles. This approach enables the fabrication of ultra-low refractive index layers, which are significantly lower than those achievable by conventional means, and results in significant savings through reduced material and equipment costs.

**Potential Recipient:** Nano-Terra, Inc.  
**Location:** Cambridge, MA

**Purpose:** Highly Efficient Nanowire Based Anti-Reflective Coatings for Night Vision Applications  
**Request:** \$2,300,000  
**Project Description:** In the theater, reflected light from lenses, watch faces, windshields or the lenses of sniper rifles can disclose a warfighter's or a vehicle's position making antireflective coatings preferable in reducing the threat to our warfighter. This funding is requested to develop such coatings.

**Potential Recipient:** Worcester Polytechnic Institute and University of Utah  
**Location:** Worcester, MA; Salt Lake City, Utah  
**Purpose:** Highly Functional Neurally Controlled Skeletally Attached and Intelligent Prosthetic Devices  
**Request:** \$40,000,000  
**Project Description:** Funding would assist a collaboration that is focused on the development of implantable prosthetic devices that address the loss of limbs due to injuries, disease and combat wounds.

**Potential Recipient:** Agiltron Inc  
**Location:** Woburn, MA  
**Purpose:** Hostile Fire Indicator by Uncooled Two-Color Midwave Infrared Imaging  
**Request:** \$4,000,000  
**Project Description:** The proposed program establishes dedicated and specialized development and production capability for the core elements of the wide field-of-view two-color midwave IR sensor Hostile Fire Indicator system.

**Potential Recipient:** Nuvera Fuel Cells  
**Location:** Billerica, MA  
**Purpose:** Hydrogen Generation for Forklift Fuel Cells  
**Request:** \$1,600,000  
**Project Description:** This funding will support the completion of Nuvera Fuel Cell's demonstration project at the Susquehanna Defense Distribution Depot in Pennsylvania. Currently the depot is testing 20 fuel cell powered forklifts. This funding will allow for the installation of a PowerTap hydrogen fuel converter and 20 additional forklifts. Having on-site hydrogen fuel production will save money and provide for a more realistic assessment of the advantages of fuel cells vs. traditional batteries.

**Potential Recipient:** Scientific Systems Company, Inc.  
**Location:** Woburn, MA  
**Purpose:** ImageNav-Motion Image-Based Navigation and Precision Targeting  
**Request:** \$5,200,000  
**Project Description:** This project proposes to conduct key developmental phases of ImageNav, a low-cost, software-only technology that enables the Tomahawk Missile and other air vehicles to navigate precisely without the global positioning system. The funding requested for the project would support completion of key system design and

development tasks for the technology, readying the system for deployment on the Tomahawk Block IV Missile.

**Potential Recipient:** Arteriocyte, Inc.

**Location:** Hopkinton, MA

**Purpose:** Infection Prevention Program for Battlefield Wounds

**Request:** \$2,000,000

**Project Description:** This project will develop a delivery system for antibiotics using Magellan Autologous Platelet Rich Plasma. This therapy will be applied directly to the wound, and continually release antibiotic as it heals. This will ultimately provide unprecedented treatment for battlefield injuries while reducing infection risk, decreasing recovery time and overall medical costs.

**Potential Recipient:** Henschel

**Location:** Newburyport, MA

**Purpose:** Integrated Advanced Ship Control

**Request:** \$5,000,000

**Project Description:** The goal of this project is to develop an open architecture standard Integrated Advanced Ship Control for Navy ships. The project will entail software and electrical engineering, manufacturing support in assembly, and fabrication of a modular prototype system.

**Potential Recipient:** Beacon Interactive Systems

**Location:** Cambridge, MA

**Purpose:** Integrated Maintenance Action Performance Support

**Request:** \$3,000,000

**Project Description:** The purpose of this project is to meet the Navy's interest in increasing the cost savings realized from deploying Integrated Maintenance Action Performance Support to U.S. Fleet Forces immediately rather than waiting until the 2011 POM cycle. The deployment of Integrated Maintenance Action Performance Support to every ship in the active Fleet is expected to save \$18M yearly.

**Potential Recipient:** Curtiss-Wright Controls Embedded Computing

**Location:** Littleton, MA

**Purpose:** Integrated Vehicle Health Monitoring System

**Request:** \$3,300,000

**Project Description:** This project will support research to utilize efforts within the commercial automotive industry to determine the value of adopting appropriate commercial automotive standards as a baseline for the standards of the Army's vehicle health monitoring system.

**Potential Recipient:** Scientific Systems Company Inc.

**Location:** Woburn, MA

**Purpose:** Intelligent Mobile Sensor Barrier

**Request:** \$10,440,000

**Project Description:** The project will develop, test, and demonstrate a system of multiple autonomous surface vehicles to detect, monitor and support interdiction of submarines that transport terrorists and illegal cargo such as narcotics.

**Potential Recipient:** Mullen Advertising

**Location:** Wenham, MA

**Purpose:** Joint Advertising Market Research Studies

**Request:** \$41,000,000

**Project Description:** The program complements and bolsters the effectiveness of all the Services' recruiting and retention efforts by creating positive perceptions about the Military as a career option among adult and youth, and by eliminating redundancies within each of the Services' advertising and market research efforts it should yield substantial cost savings.

**Potential Recipient:** Rolls Royce Naval Marine Inc., Rolls Royce North America

**Location:** Walpole, MA

**Purpose:** LCS-1 Waterjet Spares

**Request:** \$5,300,000

**Project Description:** Provided funds will purchase one of each type of LCS-1 waterjet as inventory spares which are needed because the Littoral Combat Ship has no critical propulsion system spares due to funding shortfalls caused by program cost increases. Inability to replace damaged or worn waterjets will compromise ship mobility.

**Potential Recipient:** Cobham Defense Systems

**Location:** Lowell, MA

**Purpose:** Leveraging COTS Sensors for Improved Warfighter Situational Awareness

**Request:** \$3,700,000

**Project Description:** The requested funding will be used for research, development, testing and evaluation of low-cost commercial millimeter wave radar technology on combat vehicles to increase warfighter survivability through improved situational awareness.

**Potential Recipient:** Science Research Laboratory

**Location:** Somerville, MA

**Purpose:** Light-Weight, Low-Cost Night Vision Goggles

**Request:** \$2,500,000

**Project Description:** This program would develop thermal "night-vision" infrared sensors that record thermal infrared radiation images and convert it into visible radiation. These sensors can be fabricated into night-vision goggles enabling our soldiers to easily and directly view images at night. These goggles will weigh little more than eyeglasses and consume approximately the same power as cell phones in the stand-by mode.

**Potential Recipient:** Fosta-Tek Optics

**Location:** Leominster, MA

**Purpose:** Lightweight Polymer Design for Soldier Combat Optics  
**Request:** \$3,000,000  
**Project Description:** The focus 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 this difficult climates.

**Potential Recipient:** Material Systems Inc.  
**Location:** Littleton, MA  
**Purpose:** Lightweight Torpedo Development  
**Request:** \$3,400,000  
**Project Description:** Funding will assist in the development and qualification of a second vendor of custom piezocomposite arrays for defense and commercial sonar systems.

**Potential Recipient:** Dynamic Flowform Corp.  
**Location:** Billerica, MA  
**Purpose:** Low Cost Titanium Pipe for Naval Ships  
**Request:** \$1,500,000  
**Project Description:** This effort will produce titanium pipe at an equal or lower cost than current Copper-Nickel pipe. Titanium pipe lasts 3x longer in salt water, saves 120,000lbs per LPD-class ship, and reduces life cycle costs by \$17M.

**Potential Recipient:** Finisar  
**Location:** Wilmington, MA  
**Purpose:** Low Noise Tunable Laser for Towed Fiber Optic Sensor Systems  
**Request:** \$3,500,000  
**Project Description:** Funding will develop a design for a low noise tunable laser for fiber optic acoustic system applications that will also analyze the reliability of this technology over current fixed frequency low noise lasers. It will develop, fabricate, and conduct critical item testing on a prototype tunable laser; and finally transition the technology to the TB-33 program for use in the inboard receiver cabinet.

**Potential Recipient:** Rolls Royce Naval Marine Inc., Rolls Royce North America  
**Location:** Walpole, MA  
**Purpose:** LSD-49 and LPD-17 Propulsion Spares  
**Request:** \$5,160,000  
**Project Description:** This project will fund the manufacture, assembly and testing of Controllable Pitch Propeller system spares for LSD-49 and LPD-17 class ships. The LSD-49 will include one ship set of propeller hubs and, one ship set of oil dist boxes. The LPD-17 will include one ship set of propeller hubs, one ship set of oil dist boxes and one ship set of propeller blades (10).

**Potential Recipient:** Specialty Materials Inc  
**Location:** Boston, MA  
**Purpose:** Magnesium Diboride Superconductors for Portable Imaging Applications

**Request:** \$3,000,000

**Project Description:** This program will fulfill the Defense Department's need for portable MRI imaging with a simple, reliable, and inexpensive superconductor for the MRI magnet that operates at temperatures compatible with a portable cooler.

**Potential Recipient:** Raytheon, Integrated Defense Systems

**Location:** Tewksbury, MA

**Purpose:** Maritime Mobile Sensor

**Request:** \$50,000,000

**Project Description:** The current plan for a robust global missile defense requires additional sensors with both national and theater assets in order to close existing sensor coverage gaps in key areas of responsibility. This funding is intended to meet that need.

**Potential Recipient:** Western Massachusetts Chapter of NTMA

**Location:** Springfield and Westfield, MA

**Purpose:** Massachusetts Advanced Manufacturing Center

**Request:** \$4,000,000

**Project Description:** Funding will establish a center to help Massachusetts high-tech, precision machining companies develop and utilize new and evolving manufacturing technologies and efficient, low-cost methods, resulting in job retention, job growth and sustained regional economic development.

**Potential Recipient:** University of Massachusetts

**Location:** University of Massachusetts Amherst

**Purpose:** Massachusetts Center for Renewable Energy; Science and Technology

**Request:** \$2,500,000

**Project Description:** This project will counter declining reserves of non-renewable fuels. An example of the outcome of this project will be to equip a mobile soldier with portable, lightweight power sources.

**Potential Recipient:** Trophos Energy Inc.

**Location:** Somerville, MA

**Purpose:** Microbial Fuel Cells for Remote Sensing Power

**Request:** \$2,500,000

**Project Description:** This project will develop microbial fuel cells for clean, low-cost, dependable power in harsh environments. Microbial fuel cell's long-term energy sources for remote, low-power sensor networks will enhance national security and mission readiness. Reliable, autonomous, unattended microbial fuel cells are critically needed to provide more accurate intelligence for our armed forces. Microbial fuel cell's will significantly benefit missions in remote locations that require low-profile sensing over extended periods of time.

**Potential Recipient:** Schepens Eye Research Institute

**Location:** Boston, MA

**Purpose:** Military Low Vision Research Program

**Request:** \$7,000,000

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

**Potential Recipient:** Wellman Center for Photomedicine, Mass General Hospital

**Location:** Boston, MA

**Purpose:** Military Photomedicine Program

**Request:** \$8,000,000

**Project Description:** Photomedicine is an emerging field of biomedical research that applies the understanding of light interaction with tissues, compounds and biological systems for the development of new health care technologies. These technologies show considerable promise in the ability to address many priority military medical problems, including treatment of drug resistant infections and early detection of TBI.

**Potential Recipient:** Lockheed Martin, Sippican, Inc.

**Location:** Marion, MA

**Purpose:** MK30 Mod 2 ASW Training Target System

**Request:** \$5,000,000

**Project Description:** The MK30 Mod2 ASW Training Target System (ATS) is the new generation fleet ASW training target for training the Navy's surface ship, submarine, and aircraft crews. This mobile target is capable of simulating the most modern quiet diesel electric and nuclear submarine threats anticipated in the 21st century littoral warfare environment. An engineering upgrade to replace obsolete circuit cards of the target is required.

**Potential Recipient:** Lockheed Martin, Sippican, Inc.

**Location:** Marion, MA

**Purpose:** MK53 Nulka Decoy System

**Request:** \$6,000,000

**Project Description:** The funds would be used to procure additional Nulka decoys to outfit surface combatants in the US Navy fleet. Increasing Navy POM funds allows procurement of an additional 17 Nulka rounds, thereby providing a per unit savings of \$48K and helping reduce the shortfall of Nulka decoys in the fleet.

**Potential Recipient:** Lockheed Martin, Sippican, Inc.

**Location:** Marion, MA

**Purpose:** MK53 Nulka Decoy System

**Request:** \$7,500,000

**Project Description:** This funding enables Nulka to continue to reduce ASCM threats with Long Pulse Capability by incorporating RF and Digital Design enhancements. Additionally, concept architecture must be designed to ensure flawless operation with the DDG-1000 Multifunction Radar. Nulka Integration into Aegis Weapon Control Open Architecture is critical to countering new/next generation threats to the battle group.

**Potential Recipient:** Triton Systems, Inc

**Location:** Chelmsford and Westfield, MA  
**Purpose:** Moldable Ceramic Composite for Tactical Vehicle Protection  
**Request:** \$2,000,000  
**Project Description:** Funding will continue development and qualification of a first generation a pliable ceramic composite that incorporates advanced ceramic nuggets in a custom engineered polymer adhesive that should prove useful for repair of light tactical vehicle armor.

**Potential Recipient:** Polartec, LLC  
**Location:** Lawrence, MA  
**Purpose:** Multi Climate Protection System  
**Request:** \$8,000,000  
**Project Description:** The Multi Climate Protection System is a modular clothing ensemble that provides total performance to Navy aircrews by layering thermal protection and shell garments. The Multi Climate Protection System offers enhanced flame protection, reduced thermal burden via dimensional moisture management, and wind and water resistance capabilities.

**Potential Recipient:** PrimeraDx  
**Location:** Mansfield, MA  
**Purpose:** Multiplexed Human Fungal Diagnostic  
**Request:** \$4,000,000  
**Project Description:** The goal of Multiplexed Human Fungal Diagnostic is to evaluate a diagnostic molecular test for its ability to detect and quantify pathogenic fungal load in subjects, thereby decreasing mortality rates and accelerating restoration to function.

**Potential Recipient:** QD Vision  
**Location:** Watertown, MA  
**Purpose:** Nanocrystal Source Display  
**Request:** \$950,000  
**Project Description:** This project will allow the Army Research Laboratory to continue development of strategically important display technologies utilizing nanocrystals as the emissive source within the display.

**Potential Recipient:** UMass Lowell's Center for High-rate Nanomanufacturing  
**Location:** Lowell, MA  
**Purpose:** Nanomanufacturing of Multifunctional Sensors  
**Request:** \$5,000,000  
**Project Description:** The outcome of this research effort will be a series of manufactured sensors for Army vehicle and personnel protection gear that should provide defense against biological and chemical warfare agents and structural mechanical damage.

**Potential Recipient:** TelAztec, LLC  
**Location:** Burlington, MA

**Purpose:** Nanostructures for Missile Defense Agency Ballistic Missile Defense Systems

**Request:** \$2,000,000

**Project Description:** This program will develop a new type of high performance anti-reflection treatment and Optical Filtering utilizing nanostructures. It will be used for Missile Defense Agency applications promising increased sensor efficiency, high yield manufacturing, and increased lifetime in high radiation environments.

**Potential Recipient:** Northrop Grumman Corporation

**Location:** Devens, MA

**Purpose:** National Advanced Optics Capability

**Request:** \$5,000,000

**Project Description:** This project will ensure that our nation grows critical capabilities for production leadership of low cost, lightweight, and very rapid optical systems for improved space situational awareness and optical/infra-red /Non-Infrared observations.

**Potential Recipient:** Beacon Power Corp.

**Location:** Tyngsboro, MA

**Purpose:** Naval Flywheel Energy Storage System

**Request:** \$3,000,000

**Project Description:** The proposed Naval Flywheel Energy Storage System will provide the Navy a proven, reliable, maintenance-free, and long-life alternative energy storage system for shipboard use that overcomes the many shortcomings of lead-acid batteries.

**Potential Recipient:** Blackrock Microsystems

**Location:** University of Utah and Brown University

**Purpose:** Neural Control of External Devices

**Request:** \$2,000,000

**Project Description:** These funds will accelerate the development of products which will revolutionize the field of prosthetics. This program will improve the lives of individuals who have lost limbs or limb movement.

**Potential Recipient:** Massachusetts Manufacturing Extension Partnership

**Location:** New England States

**Purpose:** New England Defense Manufacturing Job Creation and Supply Chain Initiative Program

**Request:** \$5,000,000

**Project Description:** The project will increase defense jobs in small manufacturers by improving their ability to compete for awards for production of machined parts utilizing a newly developed and proven Turn-Key Rapid Production System partially developed with previous support from the Department of Defense. The Turn-Key Rapid Production System significantly minimizes the lead times from design to finished product.

**Potential Recipient:** Radiation Monitoring Devices

**Location:** Watertown, MA

**Purpose:** New Technology for Detecting Nuclear Weapons Materials

**Request:** \$4,000,000

**Project Description:** This program makes improved radiation detectors to protect soldiers and citizens from a nuclear weapons attack by detecting/identifying smuggled nuclear materials and protecting against “dirty bombs.”

**Potential Recipient:** Performance Indicator, LLC

**Location:** Lowell, MA

**Purpose:** Next Generation Combat Identification-Identification Friend or Foe

**Request:** \$2,900,000

**Project Description:** This project will work to establish technology for effective target identification methods. This development project will create a better, safer, and exclusive solution to the critical deficiencies in the present systems and technology.

**Potential Recipient:** 3M Company

**Location:** Southbridge, MA

**Purpose:** Next Generation Optical Protector for Day/Night and Indoor/Outdoor Operations

**Request:** \$2,000,000

**Project Description:** This project would meet the stated need of the military for an optical shield that provides soldiers with a single lens providing high visible light transmission in low ambient light situations and visible light filtering in high light situations.

**Potential Recipient:** Semprus Biosciences

**Location:** Cambridge, MA

**Purpose:** Non-Leaching Antimicrobial Surface for Orthopedic Devices

**Request:** \$5,000,000

**Project Description:** This project will improve survivability and ensure exceptional treatment for our warfighters by applying long term anti-infective technology for devices used in extremity traumas. The project’s goal is focused on eradicating these infections thus ensuring better patient outcomes. Presently there are no permanent anti-infection solutions on extremity trauma devices.

**Potential Recipient:** Curesearch-National Childhood Cancer Foundation

**Location:** Bethesda, MD

**Purpose:** Pediatric Cancer Research and Clinical Trials

**Request:** \$20,000,000

**Project Description:** Funding will be used to enhance important ongoing pediatric cancer clinical trials, support the creation of significant new clinical trials, and prevent the discontinuation of critical childhood cancer trials, benefiting children of military families, civilian DOD employees, and other children afflicted with childhood cancer. It will also be used to support and expand upon existing DOD translational research in high risk childhood cancer.

**Potential Recipient:** NOVA Technology Corporation

**Location:** Manchester, MA  
**Purpose:** Pelican First Responder Triage Monitor  
**Request:** \$2,500,000  
**Project Description:** This new instrumentation is portable, non-invasive and will concurrently monitor 4 vital signs of trauma victims: pulse oximetry, blood pressure, pulse, and body temperature. Funding will complete 510(k) clinical trials on the Pelican System for FDA clearance, and begin production for the military, homeland security and commercial medical markets.

**Potential Recipient:** PointCare Technologies, Inc.  
**Location:** Marlborough, MA  
**Purpose:** Point of Care ARV Management with Viral Load and Toxicity Markers  
**Request:** \$3,200,000  
**Project Description:** Funding will be used to develop solutions for monitoring AIDS therapy drug resistance and ARV toxicity at the point of care. Such a test, if it is to have maximum efficacy, must be deployable in remote, limited resource settings.

**Potential Recipient:** University of Massachusetts  
**Location:** Amherst, MA  
**Purpose:** Radar Network Safety Infrastructure  
**Request:** \$2,500,000  
**Project Description:** The proposed program will work to address critical surveillance gaps in the lower atmosphere and enhance air safety and homeland security. This technology offers great potential to numerous states that face similar challenges with their existing radar infrastructure, and has the potential to monitor the dispersion of hazardous airborne chemical, biological, radiological, and nuclear materials.

**Potential Recipient:** Ahura Scientific  
**Location:** Wilmington, MA  
**Purpose:** Raman Chemical ID System  
**Request:** \$1,900,000  
**Project Description:** This project is working to combine two leading explosives detection and identification technologies, explosives trace detection and Raman spectroscopy, in a single handheld device. Combining the technologies in a single compact and rugged handheld unit enables a new concept of operations for explosives detection and identification, offering far greater accuracy under a much broader range of operating conditions than either technology can achieve independently.

**Potential Recipient:** Forsyth Institute  
**Location:** Waltham and Boston, MA  
**Purpose:** Rapid Detection and Diagnosis of “Iraqibacter”  
**Request:** \$4,000,000  
**Project Description:** This project will develop a diagnostic machine to detect a drug-resistant bacterium called “Iraqibacter” that often causes pneumonia, blood poisoning, and/or other maladies and infections in American soldiers who have suffered traumatic

injuries as a result of car bombs, roadside bombs, and improvised explosive devices. This bacterium is easily spread and often goes undetected in hospitals. Once a patient is infected, treatment is extremely difficult as Iraqibacter is resistant to most antibiotics.

**Potential Recipient:** 2Is, Inc.

**Location:** Walpole, MA

**Purpose:** Reduced Cost Supply Support

**Request:** \$2,200,000

**Project Description:** This program will 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.

**Potential Recipient:** Fate Therapeutics, Inc

**Location:** Boston, MA

**Purpose:** Regenerative Medicine for Traumatic Orthopedic Injury

**Request:** \$2,300,000

**Project Description:** This funding will advance and support the development of therapeutics to regenerate bone in cases of high energy weapon injuries and blast injuries. These combat injuries are often associated with highly fragmented fractures and infection that increase the failure rate of bone to heal.

**Potential Recipient:** RemoteReality Corporation

**Location:** Westborough, MA

**Purpose:** RemoteReality SWIR Raven 360 Degree Sensor

**Request:** \$1,200,000

**Project Description:** This funding will develop a rugged, compact 360-degree Short Wave Infrared video sensor system for unmanned ground vehicles that will meet the need for significantly enhanced situational awareness for vehicle operators in hostile environments.

**Potential Recipient:** RemoteReality Corporation

**Location:** Westborough, MA

**Purpose:** RemoteReality 360 Degree High Resolution Imaging System for Improved Situational Awareness

**Request:** \$2,000,000

**Project Description:** The goal of this program is to accelerate the development and testing of a 360 day/night camera system for the Navy's Type 18 submarine periscopes and for all surface ships.

**Potential Recipient:** Physical Sciences, Inc

**Location:** Andover, MA; Kingston, RI

**Purpose:** Sensors for Terrorist IED Network Defeat

**Request:** \$4,200,000

**Project Description:** The focus of this initiative is to exploit new developments in multispectral remote sensing to defeat IED and VBIED fabrication networks through the

detection of residual explosives and their chemical precursors left on the tools, vehicles, and surfaces of locations used by the fabricators. The funding will create a field-able 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 extant.

**Potential Recipient:** Lilliputian Systems, Inc.

**Location:** Wilmington, MA

**Purpose:** Silicon Based Solid Oxide Micro Fuel Cell on a Chip

**Request:** \$7,500,000

**Project Description:** This research and development effort will focus on advancing and implementing an existing program to deliver a multiple-layer high-power fuel cell chip and system with an electrical and physical interface compatible with the Future Force Warrior requirements. The Future Force Warrior will have more power, less weight and greatly improved mission capability.

**Potential Recipient:** Soluble Systems

**Location:** Boston, MA

**Purpose:** Smart Wound Dressing for MRSA-infected Battlefield Wounds

**Request:** \$4,000,000

**Project Description:** Funding will be used to conduct an advanced clinical research study 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.

**Potential Recipient:** Raytheon, Integrated Defense Systems

**Location:** Tewksbury, MA

**Purpose:** Space Situational Awareness

**Request:** \$6,000,000

**Project Description:** Investment will develop, integrate and test new multi-mission sensor capabilities, proven in FY09, on the Missile Defense Agency's X-Band Radar deployed on the Sea-Based X-Band 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.

**Potential Recipient:** FLIR Systems Inc.

**Location:** North Billerica, MA

**Purpose:** Special Operations High Performance In-Line Sniper Scope

**Request:** \$9,200,000

**Project Description:** High Performance In-Line Sniper Scope is a weapon mounted thermal, medium range sniper sight that provides the Special Operations Force operator exceptional detection and recognition capability in low to no light environments, and during other reduced visibility situations such as smoke, dust and haze. The system attaches to the front of the operator sniper scope and provides a mid-wave infrared magnified thermal capability. SOCOM has identified the need for an in-line sniper scope. SOCOM listed this program as the #6 priority on their FY09 unfunded priorities

list and additional funding is needed to get this equipment in the field as rapidly as possible.

**Potential Recipient:** FLIR Systems Inc.

**Location:** North Billerica, MA

**Purpose:** Special Operations Visual Augmentation Systems Hand Held Imager/Long Range

**Request:** \$9,000,000

**Project Description:** This electro-optical/infrared sensor provides stabilized long-range surveillance, identification, detection and tracking capabilities in all viewing and weather conditions or at ranges at which the operator would not normally be able to see the target. The unit is interchangeable among Special Operations Forces vehicles and interoperable with a central control station. SOCOM listed this program as the #3 priority on their FY09 unfunded priorities list and additional funding is needed to get this equipment in the field as rapidly as possible.

**Potential Recipient:** Wheelock College

**Location:** Boston, MA

**Purpose:** Strong Families/Healthy Children - Meeting the Emerging Needs of Military Families

**Request:** \$800,000

**Project Description:** Wheelock College seeks to collaborate with the Department of Defense to meet the burgeoning needs of military families; with the goal of fostering family resiliency, healthy parenting, and positive child development. More specifically, Wheelock College would develop and implement the Strong Families/Healthy Children program, a high-quality family support program for military and community-based service organizations working directly with military families. This initiative would be piloted in Massachusetts, with the goal of replicating it across New England within two-three years.

**Potential Recipient:** Thermo Fisher Scientific

**Location:** Billerica, MA

**Purpose:** Tactical Metal Fabrication

**Request:** \$4,800,000

**Project Description:** The Tactical Metal Fabrication System will provide a complementary capability to the RMS to cut the time required to produce parts by 90%, providing spare and replacement parts to our war fighters in theater. It will also serve as a stand-alone metal casting resource provided to domestic organic Army depots and industrial facilities.

**Potential Recipient:** Textron Systems Corporation

**Location:** Wilmington, MA

**Purpose:** Tactical RPG Airbag Protection System

**Request:** \$10,000,000

**Project Description:** The Tactical RPG Airbag Protection System is a self contained, modular vehicle mounted system to detect incoming RPG's and utilizes an airbag

countermeasure to defeat them. The Tactical RPG Airbag Protection System operates on vehicle power, is lightweight and can be integrated on various tactical vehicles.

**Potential Recipient:** Crye Precision

**Location:** Brooklyn, NY

**Purpose:** NSW Protective Combat Uniform

**Request:** \$2,500,000

**Project Description:** This project will allow the Department of Defense to procure Protective Combat Uniforms and load carriage equipment incorporating state of the art signature reduction technologies.

**Potential Recipient:** Worcester Polytechnic Institute

**Location:** Worcester, MA

**Purpose:** The Center for Neuroprosthetics and BioMEMS

**Request:** \$4,300,000

**Project Description:** 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. This project is focused on achieving rapid and complete recovery and improved quality of life for the young men and women in the armed services who have lost limbs or organs due to battlefield injuries. One facet of this work that distinguishes it from other efforts is its focus on short stump amputees who cannot be fitted with conventional socket attachment technology because the remaining limb is too short to hold the external prosthesis. This research is aligned with the needs and interests of several programs including the Army's Military Amputee Research Program at the Telemedicine and Advanced Technology Research Center at Fort Detrick, Maryland.

**Potential Recipient:** Hittite Microwave Corporation

**Location:** Chelmsford, MA

**Purpose:** Ultra Low Phase Noise Oscillator

**Request:** \$4,000,000

**Project Description:** Development of next-generation microwave oscillator technology having ultra-low phase noise within a miniature packaging volume, for integration within Army radars, will enable improved capability for detection of small targets at long ranges and give the US a domestic source for this crucial capability.

**Potential Recipient:** Bionostics, Inc.

**Location:** Devens, MA

**Purpose:** UniDose Military Diabetic Testing Technology Program

**Request:** \$2,000,000

**Project Description:** This program will utilize a unique single-use, single-dose calibration standard for diabetes that can be carried in any environment, used for calibration and disposed. This product is simple and easily portable with each standard packet smaller than a stick of gum.

**Potential Recipient:** U.S. Naval Sea Cadet Corps  
**Location:** Units nationwide, 15 in Massachusetts  
**Purpose:** U.S. Naval Sea Cadet Corps  
**Request:** \$650,600  
**Project Description:** This program is focused upon serving youth ages 11-17, serving almost 9,000 Sea Cadets and adult volunteers in 387 units country-wide. It promotes interest and skill development in seamanship and aviation and instills qualities that mold strong moral character in an anti-drug and anti-gang environment.

**Potential Recipient:** Schepens Eye Research Institute  
**Location:** Boston, MA  
**Purpose:** Vision and Traumatic Brain Injury Research Center  
**Request:** \$3,000,000  
**Project Description:** This project will address Traumatic Brain Injury Post Traumatic Visual Syndrome, identify ways to diagnose TBI through ocular exams, and pursue new avenues for treatment.

**Purpose:** Wave Power Buoy Control System  
**Request:** \$3,000,000  
**Language:** N/A  
**Potential Recipient:** Resolute Marine Energy  
**Location:** Watertown and Fall River, MA  
**Project Description:** This project will increase the number and diversity of non-polluting sources of electrical power to meet our national energy supply, economic development, environmental compliance, and energy security needs.

**Potential Recipient:** Textron Systems Corporation  
**Location:** Wilmington, MA  
**Purpose:** Watchdog Counter IED Sensor  
**Request:** \$2,500,000  
**Project Description:** CENTCOM has identified a growing threat from larger, enhanced roadside bombs placed in and around long roads and culverts. This program is a sensor system designed to detect C-IED breeches and has features that make it highly suitable for this address this issue.

**Potential Recipient:** Applied Radar, Inc.  
**Location:** Burlington, MA  
**Purpose:** Wideband Digital Airborne Electronic Sensing Array  
**Request:** \$3,000,000  
**Project Description:** This program will support the Air Force Research Lab at Hanscom AFB in the development of advanced digital receiver and beamforming technologies to support active electronically-scanned antenna arrays.

**Service Component:** Army National Guard

**Project Location:** Hanscom Air Force Base, Massachusetts  
**Project Name:** Joint Force Headquarters  
**Request:** \$30,736,000

**Project Description:** This project is required to house all elements of the Joint Force Headquarters, Massachusetts Army National Guard, Headquarters Massachusetts Air National Guard, United States Property and Fiscal Office, and Recruiting and Retention Command, which combined have a total strength of 450 personnel. This Joint Force Headquarters will provide a modern fully equipped Joint Operations environment necessary to conduct Homeland Defense and Homeland Security missions, as well as administrative, training, assembly, family readiness, library, learning center, arms vault, physical fitness, and storage areas. Failure to complete this project in one phase will increase costs associated with the completion of the second phase while separating functional activities during the period between phase one completion phase two completion. This will negatively impact the Joint Force Headquarters in its ability to meet their readiness, recruiting, retention, and training objectives.

**Service Component:** Air Force Reserve  
**Project Location:** Westover Air Reserve Base, Massachusetts  
**Project Name:** Joint Service Lodging Facility  
**Request:** \$10,474,000

**Project Description:** The Lodging Master Plan Condition Assessment Survey of lodging requirements dated March 30, 2001 and later modified April 29, 2002, has established a total lodging requirement of 579 rooms at Westover. There are currently seven buildings with a total of 455 rooms available or under construction. Two of the existing facilities currently utilize central latrines and will be slated for demolition at the completion of Phase IV. The initial deficit of 124 rooms coupled with the demolition of an additional 142 rooms will create a total deficit of 266 rooms. This project will help address the shortfall of 266 rooms by providing 72 new rooms. Consolidation of Northeast DoD activities has placed additional demands on existing lodging facilities, which are currently substandard and will have to be addressed in separate projects. The new facility will meet all ADA construction standards. The construction will consist of the relocation or extension of the existing utilities, new concrete framing with exterior walls consisting of face brick, interior walls of gypsum board on metal stud partitions with insulation for sound proofing and energy efficiency with wall covering, a new HVAC system, electrical, communication and mechanical systems, fire protection, a pitched roof with composite shingles, asphalt concrete parking area and all newly required antiterrorism and force protection requirements.

**Service Component:** Army National Guard  
**Project Location:** Camp Edwards, Massachusetts  
**Project Name:** Combined Arms Collective Training Facility  
**Request:** \$2,712,000

**Project Description:** The funds requested are for the design of a congressionally directed Combined Arms Collective Training Facility. With mobilization periods for

reserve component forces decreasing to 12 months, states will have an increased role in pre-mobilization training. A Combined Arms Collective Training Facility will be designed to conduct multi-echelon, full-spectrum operations training up to battalion level. The Combined Arms Collective Training Facility will replicate an urban environment with buildings, roads, alleys, parking areas, underground sewers, and a command and control building. The Massachusetts National Guard currently has in place the necessary support facilities, including barracks, dining facilities, classrooms and a Troop Medical Clinic at its Camp Edwards Training Site to support the throughput requirements of such a facility. This resource will be critical to the execution of Massachusetts National Guard pre-mobilization training plans.

**Service Component:** Air National Guard

**Project Location:** Otis Air National Guard Base, Massachusetts

**Project Name:** Composite Operations and Training Facility

**Request:** \$12,800,000

**Project Description:** Requested funds are to build a Composite Operations and Training Facility consisting of a facility to house Operations and Training offices, Installation Control Center, Communications Flight, Intel Group administrative offices, and included Wing Physical Fitness center as well as to add approximately 7,600sf to the existing Distributed Common Ground System facility for the administrative and storage areas. The administrative and storage functions of the Distributed Common Ground System need to be combined with the new facility to meet full operational capability.

**Service Component:** Air National Guard

**Project Location:** Barnes Air National Guard Base, Massachusetts

**Project Name:** F-15 Aircraft Ready Shelters

**Request:** \$13,300,000

**Project Description:** Requested funds would be used to construct adequately sized and properly configured facilities and infrastructure systems to support aircraft maintenance activities of an 18 PAA F-15 aircraft wing. The main aircraft hangar of the 104th Fighter Wing at Barnes Air National Guard Base is under-sized and antiquated. Essentially unchanged since it was first constructed in the 1950s, the facility needs to be updated with modern power, fire suppression, and other critical systems needed to properly support F-15 maintenance activities.

**Service Component:** Army

**Project Location:** Natick Soldier Systems Center, Massachusetts

**Project Name:** Sustained Warfighter Support for Upgrading Doriot Climatic Chambers

**Request:** \$20,000,000

**Project Description:** This project would construct the Sustained Warfighter Support for Upgrading Doriot Climatic Chambers at Natick Soldier Systems Center. This project is critical to the missions of multiple Army organizations at the Soldier Systems Center.

**Service Component:** Army

**Project Location:** Natick Soldier Systems Center, Massachusetts

**Project Name:** Routine Operational Support for High Velocity Impact Lab

**Request:** \$2,150,000

**Project Description:** This project would construct the Routine Operational Support for High Velocity Impact Lab at Natick Soldier Systems Center in Natick, Massachusetts. This project has the overall goal of providing lighter weight and improved personnel body armor to protect the warfighter against both existing and newly emerging threats.

**Potential Recipient:** Campus Kitchens Project

**Location:** Boston, MA

**Purpose:** Campus Kitchens' Massachusetts

**Project Request:** \$75,000

**Project Description:** These funds would be used to open a kitchen in Massachusetts that would provide more than 800,000 meals to the homeless community. This kitchen would employ a full-time worker dedicated to food resourcing, volunteer management, and community development activities, but would be primarily staffed by volunteer college students.