

| Requesting Entity / Recipient | Location | Project Name | Brief Project Description | Funding Request for FY10 Request |
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| Industrial Object LLC. | Covington, LA | Advanced Amphibious Assault Craft | The US Navy has pressing requirement for an amphibious craft, small and light enough to be used in covert and asymmetric warfare activities. Working directly with the Naval Surface Warfare Center's Combatant Craft Division, Industrial Object LLC. will provide a militarized version of the proven Industrial Object, Amphibious vehicle. This vehicle will allow direct access to most of the world's coastlines from the well deck of the amphibious ships or launched by air drop or crane lifted off the deck of any conventional Navy ship. The success of this project will mark the first light amphibious capability for our US Navy and special forces since WWII. There is presently a foreign effort to provide an amphibious capability for use by the US Navy. It is imperative to make this US designed product available to the US Navy for a fair competition during this time of increased demand for a Amphibious vehicle. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,000,000 |
| LSU A&M | Baton Rouge, LA | Air Force Minority Leaders | Continue research and development in the areas of materials and processing technology. Continue research and the development in the areas of RF Sensing, EO Sensing, Electro-Optical Battlespace Access, Advanced Target Recognition / Performance Driven Sensing, Enabling Sensor Devices / Components, and Trusted Collaborative Sensing with Spatial-Temporal Awareness and Human Effectiveness Sensor Technologies. Explore the logical outreach of related sensor technologies in the areas of Human Effectiveness/Performance, Space Vehicles, Propulsion, Aeronautical Structures, Directed Energy, Information Technology, and Materials. (PE 0602204F Sensors). This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$20,000,000 |
| University of New Orleans | New Orleans, LA | AMRI-University of New Orleans | The Department of Defense's ability to utilize net-centric operations across all warfighter domains is a critical requirement for current and future joint operations. AMRI and the College of Engineering research efforts will focus on the development of materials to be used in applications and devices critical to the military's need for increased computing, sensing, and telecommunications. This request is directed at the unification of UNO's military research programs, and to move UNO into new and developing Thermoelectric technologies that are important to the nation's strategic research needs. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$6,000,000 |
| Louisiana Tech University | Lincoln Parish | Anti-Tamper Research & Development | This program will provide the research, development, and testing of technologies that can significantly reduce or eliminate the threat of reverse-engineering or software extraction from the guidance/avionics package of military aircraft and missiles. Technologies developed will prevent the extraction, disassembly, and reuse of US aviation and missile Critical Technology/Critical Program Information hardware and software. The DoD is currently aware of how vulnerable its weapons systems are to reverse-engineering, and this effort will develop measures to decrease or eliminate this vulnerability. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,800,000 |

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| Textron Marine and Land Systems (TMLS) | St. Tammany Parish | Armored Security Vehicle (ASV) - Directed Energy Weapon (DEW) | The war-fighter needs a rapidly fielded, mobile, ruggedized, test device to efficiently evaluate the effectiveness of High Energy Laser (HEL) DEW's under multiple scenarios, and to accelerate the transition from laboratory to battlefield environments. Textron Systems has developed solid state lasers based on ceramic laser gain material that have shown output power levels compatible with military use as tactical weapons. This will accelerate the technology development path of all-electric solid state lasers for directed energy weapons applications, and show the value of a "medium caliber," mobile DEW. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$8,000,000 |
| Tulane University/Xavier University | New Orleans, LA | Biodefense-Tulane and Xavier Universities | This project request is to continue Army/DoD research for biodefense vaccine development. DoD in partnership with Tulane and Xavier will leverage two existing successful research programs, one which already has DOD funding to develop new vaccines and therapeutic peptides against biological threat agents and other deadly diseases. Research conducted at Tulane led to the development of the AIDS peptide drug Fuzeion. Working with DOD, Tulane and Xavier will provide rational application of efficacy and safety studies in animal models of viral diseases, novel and innovative pharmaceutical formulations for therapeutic peptides, and assistance in the commercialization process. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,000,000 |
| Tulane University/Xavier University | New Orleans, LA & surrounding Parishes | Biosensors for Defense Applications-Tulane | Biosensors developed in this research provide real-time information about threats from bioterrorism and environmental pollutants, data that helps DOD respond more effectively to these incidents at less expense than other analytical methods – meaning environmental clean-up and restoration efforts will be more cost-effective. Tulane will continue to develop biosensor packaging for small, low-cost AUVs, and create biosensors and biomarkers for a family of new chemical species. Tulane and Xavier are the only non-defense entities developing biosensors and biomarkers for real-time applications, and the BDA program represents a dynamic academic/agency/industry collaboration meeting needs of the Office of Naval Research. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,500,000 |
| OxB Corporation, Louisiana Emerging Technologies Center, LSU-BR | Baton Rouge, LA | Broad-Spectrum Liquid Battlefield Sterilant and Disinfectant | The Army Medical Materiel Command at Ft. Detrick, MD, after evaluation of preliminary test data for a new liquid sterilant developed at the Louisiana State University Agriculture Center, has concluded that the sterilant, known as OxB, contains properties not known in any other sterilant being reviewed for use in the field. Using these funds to augment its own internal funding, Ft. Detrick scientists will supervise necessary field testing, at its own facilities and Ft. Sam Houston, Texas, to steer OxB through an accelerated registration and licensure process to qualify for fielding for the Warfighter. The testing and selection will be part of a competitive program. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,000,000 |

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| Pennington Biomedical Research Center | Baton Rouge, LA | CAREER-Pennington (Cohort to Assess Readiness from Entry through Exit and Retirement) | CAREER will supply the evidence needed to develop more effective health screening, prevention, treatment, and management programs and policies. Furthermore, CAREER will provide health and physical performance data collected before and after BCT to investigate whether responsiveness to a standardized physical training program predicts health outcomes later in life, a question that cannot be addressed in cohort studies among civilians. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,500,000 |
| Cyber Innovation Center | Bossier City, LA | CIC Academic Outreach Program | The Cyber Innovation Center Academic Outreach Program provide a cyber academy for computer science and engineering programs; higher education cyber research and development for multiple local universities; and a K-12 outreach for summer camps, curriculum and workshop development. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,700,000 |
| Civil Air Patrol, Louisiana Wing | Statewide | Civil Air Patrol Operation and Maintenance Budget | The Civil Air Patrol's FY10 Operations and Maintenance funding must be fully funded to maintain readiness to support disaster relief, community service missions, search and rescue, youth leadership development and homeland security initiatives. A funding cut will directly translate into reduced field support of training and exercises for our volunteer professionals executing our congressionally chartered missions. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | Restore Full FY10 Budget |
| The Timbuktu Academy at Southern University and A&M College | Baton Rouge, LA | Closing Academic Achievement Gaps at the Timbuktu Academy at Southern University and A&M College | This project is to implement the 10-strands of competitive education and the 10-strands of systemic mentoring of the Timbuktu Academy and to disseminate these processes and results effectively for replication. For the last 18 years, the Academy has closed the academic achievement gaps between socioeconomically disadvantaged K-12 and college students and their peers with resources and support. The requested funds will be spent on teaching, learning, parental involvement, and summer academic enrichment activities for K-12 schools and students, and on systemic mentoring of undergraduate majors in science, technology, engineering, and mathematics (STEM) at Southern University and A&M College. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$1,000,000 |
| Cyber Innovation Center / Bossier Parish Police Jury | Bossier City, LA | Cyber Security and Defense Center (Bossier Parish) | The Cyber Innovation Center (CIC) at Barksdale Air Force Base is being built to help develop our nation's cyber defense operations as well as bring high-paying knowledge-based jobs to North Louisiana. Through its activities at the CIC, the Louisiana National Guard will provide cyber assurance for State missions, develop the protocol for responding to threats to private industry and "state.gov" network infrastructure, and then provide training and cyber defense support to other state civil authorities. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$5,200,000 |

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| Cyber Innovation Center | Bossier City, LA | Cyberspace Innovation Center (CIC) Research and Development Seed Fund | There is a recognized need to develop and establish new technologies to protect and defend cyberspace domain which are critical to national security. Protection of the cyberspace domain ranges from Department of Defense systems to the basic services provided by our power and water infrastructure. Millions of cyber attacks occur each day, many of which go unknown and undetected. High-potential defense technologies exist which have been funded by the government but are left to die before being commercialized and industrialized. The CIC R&D Seed Fund will identify usable technologies developed in the nation's labs, and fast-turn them into useable DOD cyber warfare prototypes. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$5,000,000 |
| Rockwell Collins | Multiple | Defense Advanced GPS Receiver (DAGR) | The DAGR is the most sophisticated and capable GPS receiver of its class in the world. It provides enhanced anti-jam capabilities and improved map features for increased battlefiled situational awareness. The capability that Situational Awareness (SA) adds for the individual soldier is to harness battlefiled information and operate the radios and position/navigation system, thereby enabling the soldier to be more efficient and effective in combat. The enhanced new mapping and mission planning feature functionalities have been fully developed to interface with both DoD and commercial map databases including images viewing from satellites or other such images. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$5,000,000 |
| Mezzo Technologies | Baton Rouge, LA | EFV Noise and Weight Reduction Using Micro Channel Heat Exchangers | The program will redesign the heat exchangers in the propulsion cooling system for the Expeditionary Fighting Vehicle (EFV). The current propulsion cooling system has four primary issues: Weight, noise, thermal performance, and reliability. The program will provide increased vehicle survivability due to reduced noise, reduced weight, increased reliability and overall life cycle cost savings. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,000,000 |
| National Federation of the Blind | Ruston, LA | Extended Freedom of Choice to Blinded Veterans | This project seeks to develop a two-year pilot project focused on increasing the level of adjustment-to-blindness training made available to blinded veterans. This training would be a progressive alternative to those services offered by the Veterans Administration hospitals. The goal of this project is to provide services to blind veterans in a timely manner, and to provide them the skills necessary to once again become productive members of society. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,000,000 |

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| Louisiana National Guard | Multiple States | F-15C AESA Radar for Air National Guard | An AESA radar extends the pilot's capability to detect, track and identify potential threats by 200%, giving command and control authority more time to collaborate and make informed decisions. Against several emerging threats, and under certain conditions, the F-15 AESA is the only system that will allow the pilot to detect and destroy threats before they can engage the nation's vital national resources. An AESA radar is 100 times more reliable than a mechanically scanning array, significantly reduces air and ground aborts, improves mission capability and greatly reduces deployment footprint. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$62,000,000 |
| National World War II Museum, U.S. Army Center for Military History (Afikim Foundation) | New Orleans, LA | Fighting For a More Perfect Union Exhibit - Role of Minorities in America's Wars | The exhibit is part of a national outreach initiative for the National World War II Museum in New Orleans, Louisiana. Funds will be used by the Afikim Foundation to develop and produce an educational exhibit that focuses on the role played by minorities in fighting America's wars that will be based at the National World War II Museum in New Orleans, Louisiana. This display will also be available to and placed in U.S. Army museums, U.S. military facilities and community settings throughout the country and the world. This exhibit builds on the Afikim Foundation's previous collaborative work with the U.S. Army Center for Military History in developing historical exhibits for use in U.S. Army Museums and community-education and enrichment initiatives. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,000,000 |
| Gravois Aluminum Boats- Metal Shark | Jeanerette, LA | Force Protection Boats | Since the October 2000 USS Cole attack in which terrorists killed 17 sailors and disabled the ship, Force Protection has been elevated as an urgent requirement. Force Protection Boat (Small) assets support U.S. maritime forces in littoral-based counter-terrorism operations worldwide, to include USNORTHCOM and the Department of Homeland Security. These operations include force protection, harbor defense, protection of Maritime Prepositioning Force (MPF) ships, and coordination with Mobile Inshore Undersea Warfare Units (MIUW) for surveillance operations. Force Protection Boat (Small) vessels are 24 to 27 foot aluminum boats, powered by light gasoline fed twin outboard engines of up to 150 hp each. Funding is included in the future budget to procure additional Force Protection Boats (Small), however, it is requested that out year funding be accelerated to FY10 to ensure greater protection for fleet assets. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,000,000 |

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| Department of Defense, in conjunction with UNO | Statewide | Geocent-Integrated Manufacturing Systems 3D Simulation and Modeling | SPAWAR Systems Center, Atlantic, New Orleans, Louisiana (SSCNOLA) in conjunction with NCAM, and NASA will utilize information technology simulation and modeling tools to develop and demonstrate the program and processes for enhanced 3D simulation and modeling in support of the Intelligent, Integrated Manufacturing Systems being developed by a multi-agency task force under the National Institutes of Standards & Technology. This Task Force has indentified the need for and benefit of Advanced Manufacturing 3D simulation and modeling, but no funding has been provided for the project. Enhanced 3D modeling and simulation will allow NASA and DoD to model their manufacturing and testing complexes, facilities and processes prior to deployment. Modeling prior to deployment reduces initial deployment costs and minimizes ongoing production costs. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,000,000 |
| Louisiana Center for Manufacturing Sciences (LCMS) | Shreveport, LA | Integrated Manufacturing Enterprise (LA Center for Manufacturing Sciences) | The program is designed to impact the cost, quality and schedule of Navy ships through the implementation of state-of-the-art best practices across a wide spectrum of disciplines, including information processing, business practices, manufacturing processes and supply-chain management. The executing activity for this program is the Louisiana Center for Manufacturing Sciences, a not-for-profit, consortium composed of both large and small high-tech companies. This consortium represents an impressive storehouse of manufacturing knowledge and best practices developed as a result of internal enterprise re-engineering efforts. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$7,000,000 |
| L-3 Communications/ Command and Control Systems and Software (C2S2) | Bossier City, LA | Joint Range Extension (JRE) for Barksdale Air Force Base | JRE will provide complete tactical data link interoperability for the B-52 fleet. JRE securely routes data link information to provide warfighters and decision makers the timely, critical information necessary for national defense and the successful execution of military, civilian, or humanitarian operations. Using satellite / data link radios, the internet, and other communications mediums, JRE overlays the positions of aircraft, ground units, and ships on a variety of maps to increase on-scene situational awareness. JRE software continuously updates these positions, providing a very dynamic display of the real-time environment. JRE also distributes that picture around the world to users on the ground, at sea, or in the air. JRE currently plays a critical role in National Guard, active duty, and reserve command military operations overseas as well as in Homeland Defense. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,000,000 |

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| The Army National Guard | Statewide | LaserShot | The purpose of this funding is to provide the Louisiana Army National Guard with Future Soldier Training Systems to further bolster their recruiting and retention efforts to ensure recruitment goals are achieved every year. This initiative integrates Non-Prior Service Soldiers into a viable and effective pre-basic training program. The use of the Future Soldier Training Systems (FST) has significantly improved the training and readiness of the companies where they have been deployed. ARNG recruits arriving at basic training where the FSTs have been employed are reported to have significantly higher marksmanship scores and appear to be more highly motivated and prepared for training. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$1,000,000 |
| Northrop Grumman Corporation | Bossier City, LA | LITENING Generation 4 Pod Kit Upgrades for Air Force Reserve | LITENING is a multi-purpose targeting and navigation system providing tactical aircraft with 24-hour precision strike capability against both land and sea-based targets. The system enhances an aircraft's capability both day and night to identify, track and target potential threats for improved performance during all environmental conditions. Many current Air Force Reserve F-16, A-10 and B-52 aircraft lack precision targeting capability and the ability to detect and target Improvised Explosive Devices (IEDs). AFRC needs 65 LITENING G4 Advanced Targeting pods upgrade kits to complete their requirement for precision targeting to support training and deployment schedules for Operations in Iraq and Afghanistan. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$24,000,000 |
| Louisiana Association for the Blind | Leesville, LA, Beauregard Parish | Louisiana Association for the Blind Base Supply Center | The Louisiana Association for the Blind (LAB) is a private, non-profit organization designated as a 501(C) 3 organization. The organization provides quality employment, rehabilitation and vocational training to individuals who are blind and visually impaired in Northwest Louisiana. LAB is looking forward to further growth with the addition of a Base Supply Center on the Ft. Polk army base in Leesville, Louisiana. LAB is requesting funding assistance for the construction of this facility. LAB was awarded a Service Contract with the Federal Government to operate a retail store at this facility to sell a wide range of office products, janitorial, hardware and military individual equipment to government agencies and primarily to military and civilian personnel at the Ft. Polk Army Base. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$500,000 |

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| Louisiana Tech University | Ruston, LA | Louisiana Tech University - Cyber Security Laboratory | Louisiana Tech University seeks funding for equipping and continued research at the new Cyber Security Laboratory to support research and educational efforts in cyber security. Additionally, the FY10 funding will enable configuration, test and validation of the new equipment and software purchased in FY 2009, and to support initial research projects between the CSC and partners. This laboratory is a key component of the recently established Center for Secure Cyberspace (CSC), collaboration between Louisiana Tech University and Louisiana State University. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$1,500,000 |
| TGV Rockets | New Orleans, LA (Michoud) | Low Cost Liquid Upper Stages-TGV Rockets | This request is for continued development of low cost liquid stage rocket engines and boosters to support the Operationally Responsive Space mission area for the Department of Defense. The recipient firm has performed significant work in propulsion, directly applicable to this low-cost liquid stage effort. This work is enabling technology for emerging requirements in Suborbital flight which would enable Operationally Responsive Space, Reusable Booster stages, High Altitude Reconnaissance rockets and enable low cost missile defense targets, particularly towards advanced capabilities. Funds will be used to set up workshops, manufacture test hardware and qualify potential flight test hardware, as well as support modeling, design work and analysis. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$5,000,000 |
| LSU A&M | Baton Rouge, LA | LSU Advanced Materials | New materials play an integral role in a variety of important technology areas that have significant national/international impact. Examples include medicine, information technology, transportation, energy, homeland security, defense and even entertainment. In order to affect significant advances in these application areas, materials with unique structural and size properties must be discovered and characterized and also, incorporated into novel device platforms. The goal of this request is to augment the extensive investments made by LSU-BR and the state of Louisiana in advanced materials research by securing the required equipment, computational interconnections and visualization equipment. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,000,000 |
| LSU - Shreveport | Shreveport, LA | LSUS Cyber Operations Security Institute | The LSUS Cyber Operations Security Institute is an innovative partnership between the University and the City of Shreveport and is an interdisciplinary facility supporting the full range of Cyber operations at Barksdale Air Force Base through education, research and community outreach. LSUS will develop a National Center of Academic Excellence in Information Assurance (IA) Education. This is a formally recognized designation of the National Security Agency, and universities must meet rigorous criteria in order to receive the designation. LSUS will develop educational and research collaborations with Southern University-Shreveport and Bossier Parish Community College and the Cyber Innovation Center located in Bossier City. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$1,500,000 |

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| Mary Bird Perkins Cancer Center | Baton Rouge, LA | Mary Bird Perkins Cancer Center Medical Imaging Project | MBPCC-LSU is supporting the development of a Medical Imaging, Treatment, and Treatment Planning Research Laboratory specifically for monochromatic X-ray beams for use in radiation therapy and medical diagnostic imaging. The Department of Defense utilizes this specialty both in the diagnosis and treatment of disease, as well in the research and development of high performance computing, radiation dose, and imaging applications. Working with DOD, LSU-MBPCC will establish a multi-disciplinary Treatment and Treatment Planning Research Laboratory to study a new technology that offers unique promises for monochromatic X-rays in radiation therapy and diagnostic imaging. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,000,000 |
| Louisiana Army National Guard | Multiple Locations | M-Gator | The Army National Guard has a critical requirement for the M-Gator tactical utility vehicle to carry supplies and casualties in support of its ever increasing involvement in Operations Iraqi Freedom and Enduring Freedom. The M-Gator also proved to be an invaluable asset to National Guard units that deployed to Louisiana and Mississippi in the aftermath of Hurricane Katrina. The funds requested will be used to acquire 825 M-Gators for high priority units deploying to Iraq and Afghanistan, as well as for units supporting homeland security missions in the U.S. The Adjutant General of the Louisiana National Guard, in addition to nine other state Adjutants General, supports this request. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$7,500,000 |
| Pennington Biomedical Research Center | Baton Rouge, LA | Military Nutrition Research | This funding is requested for the Pennington Biomedical Research Center for ongoing research to continue the Army's responsibility for military nutrition research across all branches of military service. The work focuses on the improvement of health and performance of the American Armed Forces. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,000,000 |
| Greater Alexandria Economic Development Authority | Alexandria, LA | Mobile Bulk Water Distribution System | Mobile Bulk Water Distribution System combines technology and mobility to provide an environmentally friendly distribution system for water and ice which eliminates current staging levels, is time sensitive and raises quality level. Presently water is bottled, trucked to a staging area and later moved to the affected disaster area and distributed to consumers. Partnering with AT&T, RFID version technology is used to deploy and monitor route trucks, water tanks, and ice machines in real time for just in time services to evacuation centers, medical facilities, destination locations and other locations requiring water and ice service. The budget will be spent to create infrastructure in Louisiana for the system including equipment, training and creating a deployment system which mirrors the Louisiana Emergency Citizens Evacuation Guide and the most current state plan for citizens displaced by disaster. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,500,000 |

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| PPG Industries | Calcasieu Parish | Nanotechnology for potable water and waste treatment | The objective of this program is to leverage nanotechnology to develop low-cost, multifunctional materials to effectively purify water for potable supply and produce wastewater meeting EPA discharge standards. PPG Industries proposes to use its extensive R&D, manufacturing, and commercialization capability to successfully introduce nanotechnology to water filtration applications. The program will address both conventional water treatment and water security needs in tactical and fixed military environments. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,000,000 |
| Bossier Parish Police Jury | Bossier City, LA | National Cyber Range at the Cyber Innovation Center | The National Cyber Range will provide a place to test offensive and defensive capabilities in a secure environment. At this time, multiple contractors operate the secure ranges and networks scattered across the DOD and other governmental agencies. The National Cyber Range will integrate various aspects of the existing ranges to provide a more robust and secure environment. The Cyber Innovation Center located in the National Cyber Research Park will provide a secure, survivable, redundant site for the National Cyber Range. The National Cyber Range, much like a live firing range, will provide a safe environment for the testing and evaluation, followed by training, of offensive and defensive capabilities of significant consequence to the cyber domain. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,500,000 |
| The National World War II Museum, Inc. Eisenhower Center at UNO | New Orleans, LA | National World War II Museum Defense Appropriations and Defense Authorization Bills | The National D-Day Museum was officially designated by the Congress as "America's National World War II Museum" in the Fiscal Year 2004 Defense Appropriations Act (P.L. 108-87, Section 8134). The Museum received the national designation because it is the only museum in the United States that exists for the exclusive purpose of interpreting the American experience during World War II, years 1939-1945, on both the battlefield and the home front. In doing so, the Museum covers all of the branches of the Armed Forces and the Merchant Marine. This is a onetime permanent \$50M authorization for the National WWII Museum in New Orleans, to provide Federal support for the U.S. Freedom Pavilion part of the current Museum's expansion. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$50,000,000 |
| Honeywell International | Geismar, LA | Non Flammable Electrolytes for Safer Lithium Ion (Li-ion) Batteries | With the increase in electronic devices on the battlefield (e.g., radios, night vision equipment, computers), the U.S. military requirement continues to increase for small, light-weight, long-duration batteries. Lithium Ion (Li-ion) batteries are considered to be the most promising energy storage technologies. However, Li-ion batteries are not intrinsically safe. Development of fluorinated solvents offer a path to non-flammable electrolytes that will result in intrinsically safer batteries, with lighter weight, and at lower cost. The funding requested would lead to the production of inherently safer, fluorinated solvents that will increase the effectiveness of the warfighter equipment. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,000,000 |

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| Operation Smile | Multiple States | Operation Smile | The Operation Smile Medical Diplomacy Initiative builds upon current programs it conducts with the DoD including several humanitarian activities with PACOM, SOUTHCOM (aboard US Naval Ships) and continuing operations within the CENTCOM area of operations. Operation Smile is seeking federal funding to enhance its medical and educational activities in regions where the United States is interested in winning the “hearts and minds” of local populations, particularly in Africa, the Middle East, Asia Latin America and the Caribbean. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,500,000 |
| The Boeing Company | Multiple Locations | QDR and NPR Support to Eighth Air Force – Bomber Role in Nuclear Triad | This is a one-time appropriation request to support and assist Air Force Global Strike Command and Eighth Air Force during the upcoming Quadrennial Defense Review (QDR) and Nuclear Posture Review (NPR). Specifically, at the direction of, and in support of the 8 AF/CC, provide a focused study on the current and future benefits of the nuclear B-52 bomber role in the new USSTRATCOM nuclear triad. The B-52 is the largest nuclear bomber weapon system supporting the Combatant Commander, executing the USSTRATCOM nuclear mission. Additionally, the study will determine current and future benefits of the B-52 bomber role in support of USSTRATCOM's global strike and deterrence missions both as a conventional platform and as an element of the nuclear TRIAD. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$6,000,000 |
| The Nature Conservancy (TNC), Louisiana Field Office (LAFO) | Nationwide | Readiness and Environmental Protection Initiative (REPI) | Encroachment of military installations such as Fort Polk in Louisiana is a major threat to readiness and the long-term viability of these installations. Buffers adjacent to or in the vicinity of installations created under REPI through partnerships involving DoD, state and local governments, NGOs, and willing landowners are highly effective in addressing encroachment. DoD has validated projects at over 40 installations, including the Fort Polk project, with additional projects expected in FY 2010. Funding in prior years has been inadequate. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$75,000,000 |
| Louisiana Tech University | Lincoln Parish | Remote Suspect Identification | Louisiana Tech University seeks funding for research in remote language-independent suspect identification. Our researchers have developed technologies that use mathematical models for identity verification. Aspects of this work have been commercialized in the private sector. The University has worked with the Air Force and industry partners in further development of the algorithms and software for military applications. These funds will support our faculty and partners identified by the Air Force in extending the development of these algorithms. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,200,000 |

| Requesting Entity / Recipient | Location | Project Name | Brief Project Description | Funding Request for FY10 Request |
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| Cat 5 Composites, LLC | New Orleans, LA | Robust Advanced Materials (RAM) | USSOCOM has an unfunded requirement for research in advanced materials with greater durability, robustness and lighter weight than current processes. Continuous fiber reinforced thermoplastic shows promise in fabricating lighter and more robust components for all sorts of land, air and sea vehicles. This project will fund the research development, trials testing and evaluation of continuous fiber reinforced thermoplastic components and hull parts. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,700,000 |
| Cat 5 Composites, LLC | New Orleans, LA | Small Assault Vehicle Expeditionary (SAVE) | SOCOM has an unfunded requirement for a small, fast, highly maneuverable assault craft. Previous research efforts have focused on converting a commercial off the shelf jet-ski to military use. The COTS craft has been discontinued and there are no suitable replacement hulls on the market. A replacement hull needs to be developed and produced to fully exploit the successes that the SVMCMC technology project achieved. This next phase of development would be to engineer, and produce an improved craft. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,100,000 |
| United States Navy Special Operation Forces | Nationwide | SOF Submersible Concept Design Study | Pursuant to discussions with the Naval Special Warfare Command, Edison Chouest Offshore and Submergence Group, LLC, have established a partnership to address the current need for a new-generation combat submersible, capable of conducting insertion and extraction of Special Operation Forces (SOF) personnel and/or payloads. The fundamental premise of this partnership is to enhance the operational capability of the SOF commanders by providing specified services rather than designing and constructing a submersible to sell to the government. This proposed business model would result in significant cost savings, reduced procurement and operational risk, increased reliability, increased operational tempo and a reduction in the reliance on Mother Submarine (MOSUB) use and availability. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$1,500,000 |
| QinetiQ North America | Slidell, LA | Sonobuoy Wave Energy Module (SWEM) | The goal of Sonobuoy Wave-Energy Module (SWEM) is to extend the life of ocean sensing sonobuoy systems by replacing and/or supplementing heavy and potentially dangerous batteries with a novel wave-energy harvesting module. SWEM will include advanced control logic to rapidly adapt to changing wave conditions and "tune" the system to the wave conditions for maximum efficiency. SWEM has numerous military and civilian applications, including anti-submarine warfare and global climate monitoring. Initial research has shown potential for this renewable-energy concept. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,000,000 |

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| Plaquemines Parish Sheriff's Office | Belle Chasse, LA | Southeastern Louisiana Integrated Command Operations Program (ICOP) | The US Army is executing a program called Project National Shield (PNS). This program addresses the ability of the Army to meet its civil support mission and to provide critical components of homeland defense. The program develops processes and protocols to improve the ability to communicate with Federal (Army), State and local jurisdictions as it relates to local first responders. The program is deploying technologies in the field to refine and develop an architecture for Army communications. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$6,500,000 |
| New Orleans IT Companies, UNO/ Business Council | New Orleans, LA | SPAWAR Systems Center, Atlantic (SSC), New Orleans office (SSCNOLA) | Fiscal Year 2010 funding is requested for the SSC/ITC New Orleans for sustaining critical joint Navy/university information systems research and technology transfer, in partnership with the University of New Orleans and local IT companies, as they continue to boost local IT small businesses and industry recovering from the aftermath of Hurricane Katrina. Funding will update the current operations environment at the SSC/ITC. This infrastructure and suite of hardware is now becoming obsolete and needs to be refreshed with a more up-to-date computer environment. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$20,000,000 |
| New Orleans IT Companies, UNO/ Business Council | New Orleans, LA | SPAWAR Systems Center, Atlantic (SSC), New Orleans office (SSCNOLA) | Fiscal Year 2010 funding for SSC/ITC New Orleans is requested to maintain mission critical information systems activities operating in New Orleans. Additionally, to provide critical joint Navy/university information systems research and technology transfer, in partnership with the University of New Orleans and local IT companies, to help improve Navy programs and boost local IT small businesses and industry still recovering after the devastation resulting from Katrina. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$10,000,000 |
| Tiburon Associates | Belle Chasse, LA | Technology Insertion for Army Aviation | The existing Army Aviation engineering capacity is entirely dedicated to maintaining the immediate Warfighter capability, with little or no availability to address needed upgrades. The proposed program will create an engineering focus to address both sustainment and performance technology insertion requirements under the direction of Army Aviation and Missile Research Development and Engineering Center. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$5,000,000 |

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| Bascom Hunter | East Baton Rouge Parish | Total Spectrum Dominance Using Cognitive Radio/Radar Technologies | Total Spectrum Dominance Using Cognitive Radio/Radar Technologies will provide optimum spectrum efficiency and dominance that will ultimately provide a substantial increase in bandwidth, increased accuracy, reduced power consumption, reduced interference, improved stealth and anti-jamming capability. This will provide troops unprecedented communication superiority over the enemy and increase our asymmetric warfighting advantage through superior cyber technologies. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$4,000,000 |
| Louisiana National Guard | Multiple States | UH-72A Lakota Light Utility Helicopter (LUH) Simulator | The Army National Guard provides over 43 percent of the Total Army's utility and MEDEVAC aviation force. The Army Aviation Transformation Plan (ATP) requires the continued retirement of the Army's 40 yr old utility helicopters and that they be replaced in part by the planned acquisition of 345 new UH-72 Light Utility Helicopters, with 200 to be fielded in ARNG units in 45 states across the country. Increased training is required to maintain flight proficiency and safety requirements. However, current Army approved UH-72 acquisition plans only include procurement of two limited capability cockpit procedural training simulators to support training for the entire active Army and Army National Guard fleets of UH-72 aircraft. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$11,800,000 |
| C&C Technologies INC. | Lafayette, LA | Unmanned Undersea Vehicle Submerged Long Endurance Positioning | The Naval Oceanographic Office (NAVOCEANO), as the operational component of the Command Naval and Meteorological Oceanographic Command (CNMOC), is responsible for the Mine Warfare (MIW) Unmanned Undersea Vehicle (UUV) Detachment recently acquired by CNMOC. The goal of the FY10 project is determine and address positioning accuracy of Unmanned Undersea Vehicles (UUVs) during submerged long endurance missions. This capability gap severely impacts the implementation of UUV technology within the Navy's Sea Basing concept and delays the complete integration of UUVs into the Fleet. UUV's are envisioned as an on-site on-demand reference point for subsea or surface operations that have been pre-positioned just prior to or well in advance of the planned operations. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,000,000 |
| The Breast Foundation | Baton Rouge, LA | U.S. Navy Cancer Vaccine Program | The U.S. Navy Cancer Vaccine Program implemented a Phase 1A/1B clinical trial of its developed vaccine for prostate cancer patients at the Veterans Medical Center, La Jolla, CA. Forty-eight US military veterans who have received previous treatment (surgery, radiation or radioactive seed implants) and now have a rising PSA participated in the study. The U.S. Navy Cancer Vaccine Program's clinical trial will be sponsored by the Naval Health Research Center, San Diego, CA. The FY10 request will provide a second clinical trial of patients with rising PSAs and nonpalpable biopsy confirmed prostate cancer. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,000,000 |

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| Stratus Systems | Belle Chasse, LA | Water Activated Anti-Swimmer Grenade | The Indianhead Division of the Naval Surface Warfare Center (NSWC) has an unfunded proposed program for a water activated mechanism applied to the Mk3A2 Offensive Hand Grenade. The Water Activated Anti-Swimmer Grenade will fulfill this need and provide an immediate counter to threats, in and around vessels at anchor or in port, using under water swimmers. This funding will develop, build, test and procure up to 2000 units for operational test and evaluation. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$3,000,000 |
| Louisiana National Guard | New Orleans, LA | Water Purification System for Natural Disasters | A reliable supply of clean water is of paramount importance in situations ranging from military combat to relief after a natural disaster. Supplying that clean water often requires the great transportation expense and logistics coordination. Funding would support production of units for the Gulf Coast, to include Louisiana, to demonstrate the capabilities of the revised design. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,500,000 |
| Pennington Biomedical Research Center | Baton Rouge, LA | Weight Measurements and Standards for Military Personnel | Approximately 45% of active duty and reserve soldiers fail to meet Department of Defense weight standards. This funding request is in support of research to develop a non-clinical, population-based approach for the prevention of weight gain in Army active duty Soldiers, Army Reserve Soldiers, and National Guard Soldiers. The recipient will be the Pennington Biomedical Research Center, and the funding will support ongoing expenses related to this research. The overarching goal of this research program is to develop and test the efficacy of the Healthy Eating, Activity, and Lifestyle Training Headquarters (H.E.A.L.T.H.) program as a population-based intervention to promote healthy weight, nutrition, and fitness in Soldiers. This study will follow on to the existing research to improve and refine the H.E.A.L.T.H. intervention. This investment is in the interest of taxpayers because it supports strong national security and defense through either research and development, weapon system procurement, educational development, or improved military health care. | \$2,500,000 |
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