

FY2010 National Defense Authorization Act
Federal Authorization Requests
Senator Barbara Boxer

Military Burn Trauma Research and Clinical Trials Program

Recipient: Burns Outcomes Research Institute (BORI)

Location: California and Nation-wide

Amount: \$ 8,000,000

This program will fund and administer multicenter clinical burn trials to advance the treatment of service members who suffer burns during military service. All proposals will undergo rigorous, competitive review by a team of burn and research experts. Only those projects that most effectively address high priority research areas identified by the Department of Defense will be funded. These clinical trials will work to solve issues related to scarring, limitations in function and movement, and returning to society as an independent and confident burn survivor.

Battlefield Research Accelerating Virtual Environments for Military Individual Neuro Disorders (BRAVEMIND)

Recipient: University of Southern California Institute for Creative Technologies

Location: Marina del Rey, CA

Amount: \$ 7,500,000

This program uses advanced brain imaging technologies to diagnose and treat post traumatic stress disorder. Over the last three years, the University of Southern California has created a virtual reality PTSD exposure therapy simulation that has successfully completed two open clinical trials. A prototype system has been deployed to over 30 Army, Navy, Marine, Air Force, VA, and University clinics for larger scale randomized clinical trials.

Cleanup of Former Almaden Air Force Station (AFS), Mt. Umunhum Santa Clara County

Recipient: Midpeninsula Regional Open Space District

Location: Los Altos, CA

Amount: \$ 4,000,000

Funds will be used by the Midpeninsula Regional Open Space District to immediately clean up toxic contaminants at the former Almaden Air Force Station. Currently clean up activity at the site has moved at a slow pace, and the toxic materials remaining there, such as petroleum products and solvents, asbestos, and deteriorating lead-based paint, are becoming an increasing threat to public health and the environment.

Fleet Industrial Supply Center Infrastructure Improvements (Alameda Landing)

Recipient: Alameda Reuse and Redevelopment Authority

Location: Alameda, CA

Amount: \$ 4,700,000

The Alameda Reuse and Redevelopment Authority will demolish buildings on the Fleet Industrial Supply Center that have been empty for over a decade so that the property can be redeveloped for residential use. Funds will also be used to bring the property up to residential soil standards.

Inland Empire Perchlorate Remediation

Recipient: Cities of Rialto and Colton, Fontana Union Water Company, West Valley Water District

Location: Fontana, CA

Amount: \$ 5,000,000

Ten new water treatment systems will be installed to remove perchlorate from water used by 250,000 people in western San Bernardino County. The new treatment systems will clean 31 million gallons of water per day.

Perchlorate Remediation at City of Rialto Well #6

Recipient: City of Rialto

Location: Rancho Cucamonga, CA

Amount: \$ 9,930,000

The City of Rialto will remove perchlorate from a well that exceeds California Department of Public Health's maximum contaminant level by more than 10 times. Removing the perchlorate will help ensure that nearly 500,000 people have a safe, sustainable and clean water supply and protect nearby aquifers from contamination.

Neuroscience Center of Excellence-Neuropsychiatric and Neurotrauma in U.S. Warfighters

Recipient: Northern California Institute for Research and Education (NCIRE)

Location: San Francisco, CA

Amount: \$ 6,250,000

The Northern California Institute for Research and Education's Neuroscience Center of Excellence, which is the only research center of its kind associated with the Veterans Administration health care system, conducts research to improve prevention, diagnosis and treatment of post traumatic stress disorder, traumatic brain injuries and spinal cord injuries.

CALSTART Defense Advanced transportation Technology Program, Hybrid Truck Users Forum (H-TUF)

Recipient: National Automotive Center (NAC)

Location: Pasadena, CA

Amount: \$ 10,000,000

The National Automotive Center will help develop new technologies to give the military more advanced hybrid, clean-fuel vehicles. On top of the environmental benefits of using less fuel and producing fewer emissions, hybrid technology offers safety benefits, such as fewer refueling stops, to military operations.

The Operating Room of the Future

Recipient: Cedars-Sinai Medical Center, a 501(c) (3) non-profit organization

Location: Los Angeles, CA

Amount: \$ 2,600,000

The U.S. Army continues to partner with Cedars-Sinai to improve combat medicine and surgery. The design and development of a neurosurgery-orthopedic operating room with new flexible and mobile technology will be used to demonstrate and put into practice improved configurations for combat-zone operating rooms, where military surgeons are confronting new types of injuries.

DoD Centers for Translational Research in Alcohol and Substance Use Disorders

Recipient: DoD Centers for Translational Research in Alcohol and Substance Use Disorders

Location: California and Nation-wide

Amount: \$ 8,500,000

This project will develop new treatments for those struggling with alcohol and substance abuse who also suffer from post-traumatic stress disorder and traumatic brain injury. This comes at a crucial time as alcohol and substance abuse continues to rise among servicemembers, in part, due to increased wartime deployments.

High Speed, High Volume Laboratory Network for Infectious Diseases

Recipient: University of California, Los Angeles

Location: Los Angeles, CA

Amount: \$ 10,000,000

This is the final stage of funding for the High-Speed, High Throughput Laboratory initiative—a partnership between the UCLA School of Public Health and Los Alamos National Lab (LANL). This project will improve our nation's ability to respond to a bio-emergency by establishing a laboratory and network capable of quickly analyzing and processing high quantities of biological samples.

Web Based Teaching Programs for Military Social Work

Recipient: University of Southern California

Location: Los Angeles, CA

Amount: \$ 4,500,000

This project will address the growing need for social workers within the Department of Defense. Specifically, it will seek to revolutionize teaching and training technology by creating a new certificate in social work for the military using virtual reality and web-based teaching programs to improve the quality of new military social workers. Efforts will focus on assisting the whole family, including spouses and children, who suffer the consequences of repeated deployments and tensions from separation and war.

Full Scale Impact and Blast Loading Laboratory Testing Program

Recipient: University of California, San Diego

Location: San Diego, CA

Amount: \$ 4,000,000

This funding provides for continued tests which simulate full-scale explosions using a hydraulic-based blast simulator. These tests help develop strategies to better protect Americans, particularly men and women in the military, and infrastructure such as bridges and embassies from explosive attacks.

Military Photomedicine Program

Recipient: University of California, Irvine

Location: Irvine, CA

Amount: \$ 8,000,000

This program will continue research through competitive peer-reviewed grants in the field of military photomedicine—an emerging field of biomedical research. Photomedicine shows considerable promise in the ability to address problems that are important to the military, such as

treating drug resistant infections, repair of severed nerves and blood vessels, sealing of penetrating eye injuries, wound healing, and early detection of Traumatic Brain Injury (TBI).

Post Traumatic Stress Disorder Attention Modification Program for Veterans

Recipient: San Diego State University

Location: San Diego, CA

Amount: \$ 1,500,000

This funding will conduct additional studies on a software-based system that has shown promise to treat Post Traumatic Stress Disorder (PTSD). The system is cost effective and can easily be expanded to all veterans.

Design for Replacement of Access Road Connections to Navy Owned Land

Recipient: Treasure Island Development Authority

Location: San Francisco, CA

Amount: \$ 3,000,000

This will provide for the environmental review, preliminary engineering, design and development of the Yerba Buena Island Highway Ramp Connections as part of the San Francisco Oakland Bay Bridge East Span Seismic Safety Project. This is the only part of the project that is on Navy-owned land.

McClellan Air Force Base Infrastructure Improvements

Recipient: County of Sacramento

Location: Sacramento, CA

Amount: \$ 4,500,000

This project will fund infrastructure improvements at the former McClellan Air Force Base, which has been closed since 1995, to continue converting the area from military to civilian use. This will allow for mixed-use development and further growth of the McClellan Business Park.

Strategic Language Initiative

Recipient: California State University, Long Beach

Location: Long Beach, CA

Amount: \$3,496,500

This funding will further the development of critical foreign language programs which will help meet America's national security needs. The initiative will help graduate more professionals with language skills and cultural knowledge in Arabic, Mandarin, Korean, Persian and Russian.

Advanced Dual-Band Penetrating Radar

Recipient: Stanford Research International (SRI), a 501(c) (3)

Location: Menlo Park, CA

Amount: \$ 7,000,000

This project will continue the development of a vital radar system to help military personnel detect buried threats, such as mines, bombs and weapons caches.

Eagle Vision III Upgrades

Recipient: California National Guard

Location: Sacramento, CA

Amount: \$ 6,000,000

This project will upgrade the California National Guard Eagle Vision III system, a mobile commercial satellite imagery collection and processing system. Given California's recent fire seasons, this upgrade is particularly crucial in the state because it allows people, such as firefighters, to see through clouds and haze.

U.S. Naval Sea Cadet Corps

Recipient: U.S. Naval Sea Cadet Corps

Location: California and nation-wide

Amount: \$ 650,600

The Naval Sea Cadet Corps provides nearly 9,000 young men and women each year with the opportunity to learn about seamanship and aviation. The program also helps cadets develop a sense of duty to their communities, self confidence and self discipline.

Navy Use of UNOLS Fleet

Recipient: University of California, San Diego

Location: San Diego, CA

Amount: \$ 7,500,000

This project supports the Navy's role in testing and deploying new technologies, conducting ocean research, training oceanographers, and assessing changing oceans and their impact on our national security.