

Congressman Mike Quigley

Fiscal Year 2014 programmatic requests for the Appropriations Subcommittee on Defense

\$9.8 billion for **6.3 Applied Research** within the **Department of Defense's Science and Technology (S&T)** account

Explanation: As our nation's battlefronts and enemy capabilities continue to evolve for 21st century conflicts, new disruptive technologies that enable our military to preserve a leading edge and avoid strategic surprise are essential. In particular, areas such as cyber security research represent one of the critical areas in which the U.S. must continue to design methods and tools to both ensure the resiliency of U.S. systems against attacks and provide our military the means to subvert threats to our nation abroad. Moreover, the growing demand for a workforce and military personnel with much-needed cyber skills necessitate robust and ongoing support for training and education. Looking to the horizon, it is imperative that the Department of Defense, even in a constrained funding environment, invests in the foundational science and technologies to confront these and other looming challenges.

\$2.5 million for **Iridescent Learning**

Explanation: Iridescent is an award-winning, nationally recognized STEM education program. By partnering with Iridescent, the Department collaborated on a dozen naval-relevant STEM courses for elementary and middle school students through curriculum development, direct mentoring and collaboration, peer mentoring by university graduate students, and expert guidance by Naval scientists and engineers. This program is currently in its final year of execution – if the program is not extended at the Department of the Navy, over 5500 students, 450 families, and 80 graduate students will lose access to programs.

\$5.8 million for **National Defense Education Program (NDEP) K-12**

Explanation: The NDEP K-12 program provides direct support to DoD research and S&T centers across the country to provide STEM education and outreach programs that reach over 50,000 students and teachers annually from across the country. These programs are tied directly into the Navy's national programs to ensure they have the greatest impact and fully leverage naval S&T scientists and engineers. This funding allows for continuity across the Naval portfolio as students move through the STEM pipeline and into the S&T workforce of these Naval warfare centers and laboratories.

\$20 million for suicide prevention and outreach for the **National Guard and Army Reserves**

Explanation: According to the Veterans Administration, an estimated 18 veterans complete suicide every day – over 6,500 every year. These funds will support essential intervention programs that will help bring down the number of suicides among our service members.

Maintain current funding for **Ovarian Cancer Research Program** through the **Congressionally Directed Medical Research Program**

Explanation: Through innovative, cross-institutional research practices, the DoD's research program for ovarian cancer has become the gold standard in cancer research. During the last five years, over 2,600 members of our military or their families have been hospitalized for ovarian cancer or suspected ovarian cancer. There is currently no early detection test for ovarian cancer, so more than 80 percent of women are diagnosed in later stages, where survival is significantly decreased.

\$20 million for **Peer-Reviewed Reconstructive Transplantation Research**

Explanation: The use of improvised explosive devices (IEDs) in the wars in Iraq and Afghanistan has led to an increase in severe blast trauma, with IEDs accounting for the vast majority (75 percent) of combat-related injuries. Advancements in reconstructive transplantation have the ability to change the lives of wounded warriors by allowing those with debilitating, disfiguring injuries to return to daily living.

\$1.5 million for **SeaPerch**

Explanation: SeaPerch is an innovative underwater robotics program that equips over 20,000 students and 4,000 teachers annually, across 43 states with the resources to build an underwater Remotely Operated Vehicle (ROV) in school or after school. Building a SeaPerch ROV teaches students basic skills in marine engineering and encourages students to explore naval architecture and marine and ocean engineering principles. SeaPerch has been incorporated into the curriculum for the SeaCadet program, as well as the outreach done by the Naval Recruit Command because it is recognized as key to attracting students to naval careers. Many SeaPerch students are mentored by employees from nearby naval laboratories and warfare centers and often move into internships and summer employment programs with these mentors.