

**House Armed Services Committee
Wasserman Schultz, Debbie(D-FL) - Community Project Funding Requests**

| ID | Request Project Name | Recipient Name | Request Member's Request (in thousands, \$000) |
|-----------|--|--|---|
| 156 | GHz-THz Antenna Systems for Massive Data Transmissions in Real-Time | Florida International University | \$10,000 |
| 157 | Persistent Maritime Surveillance | Florida Atlantic University | \$15,000 |
| 159 | Future Nano and Micro-Fabrication - Advanced Materials Engineering Research Institute | Florida International University | \$6,800 |
| 161 | Additive Manufacturing and Ultra-High Performance Concrete | Florida International University | \$10,000 |
| 163 | FIU/SOUTHCOM Security Research Hub / Enhanced Domain Awareness (EDA) Initiative | Florida International University | \$1,300 |
| 183 | U.S. Army Battlefield Exercise and Combat Related Traumatic Brain and Spinal Injury Research | The Miami Project to Cure Paralysis - U of Miami | \$1,700 |

| Request ID: 156 | | | |
|-------------------------|--|--|------------------------------------|
| Project Name: | GHz-THz Antenna Systems for Massive Data Transmissions in Real-Time | Request Nature: | Community Project Funding |
| Member Name: | Wasserman Schultz, Debbie(D-FL) | Member's Request: (in thousands, \$000) | \$10,000 |
| Justification: | <p>Wireless systems will play a crucial role in the development of new transformational and strategic capabilities for our Air Force to support our nation's defense. However, current technologies cannot support the needs of rapidly emerging and next-generation Air Force applications. These require near real-time transmissions of massive amounts of data, such as, ultra-fast communications, remote sensing and reconnaissance with super-fine resolution, and dynamic telemetry with ultra-high data quality. Requirements also exist for highly-agile and precise radars for electronic warfare, virtualization for realistic training, highly accurate remote command/control of autonomous platforms, ultra-fast data-on-demand, data fusion from inter-connected machines and sensor infrastructure, and digital-twin characterization platforms. For our Air Force and military to maintain their superiority, new wireless systems, which can transmit/receive massive data in real-time (with near-zero latency), must be developed to support such next-generation Air Force applications.</p> | | |
| Project Purpose: | <p>To conduct research and development on wireless systems that can transmit/receive massive data in real-time (with near-zero latency). The goal is to develop new ultra-wideband, ultra-widescan, and reconfigurable antenna systems with suitable back-ends to provide ultra-high speed wireless data links having massive bandwidths, ultra-low latencies, and high reliability.</p> <p>These antenna systems are critical for the US to maintain its military superiority, and for the Air Force and DoD to develop next-generation wireless systems with unprecedented performance and game-changing capabilities</p> | | |
| Project City or County: | Miami | Project State: | FL |
| Recipient Name: | Florida International University | Recipient Mailing Address: | 11200 SW 8 Street, Miami, FL 33199 |

DEBBIE WASSERMAN SCHULTZ
23rd District, Florida
CHIEF DEPUTY WHIP
COMMITTEE ON APPROPRIATIONS
CHAIRWOMAN
MILITARY CONSTRUCTION,
VETERANS AFFAIRS, AND RELATED AGENCIES
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Congress of the United States
House of Representatives
Washington, DC 20515

April 13, 2022

The Honorable Adam Smith
Chairman
Committee on Armed Services
U.S. House of Representatives
Washington, D.C. 20515

The Honorable Mike Rogers
Ranking Member
Committee on Armed Services
U.S. House of Representatives
Washington, D.C. 20515

Dear Chairman Smith and Ranking Member Rogers:

I am requesting funding for GHz-THz Antenna Systems for Massive Data Transmissions in Real-Time in fiscal year 2023. The entity to receive funding for this project is Florida International University, located at 11200 SW 8th Street, Miami, FL 33199.

The funding would be used to develop next-generation wireless systems that will be able to transmit and receive massive data in real-time with near-zero latency. These antenna technologies with suitable back-ends will enable the development of next-generation Air Force and DoD systems with unprecedented performance capabilities.

I certify that neither I nor my immediate family has any financial interest in this project.

Sincerely,

Debbie Wasserman Schultz
Member of Congress

Request ID: 157

| | | | |
|-------------------------|--|--|--|
| Project Name: | Persistent Maritime Surveillance | Request Nature: | Community Project Funding |
| Member Name: | Wasserman Schultz, Debbie(D-FL) | Member's Request: (in thousands, \$000) | \$15,000 |
| Justification: | The project supports the Navy globally as well as three COCOMs situated in Florida and complements the space launch activities centered around Kennedy Space Center. The project stimulates the local economy and provides increased demand for defense and technology jobs in the Greater Miami / Ft. Lauderdale area and supports the National Defense Strategy. | | |
| Project Purpose: | This project will advance the technical capabilities of CubeSats and small satellites to permit persistent remote surveillance of the maritime environment. More specifically, the project will focus on research, development, prototyping, testing, and commercial transition of novel remote sensing solutions on compact platforms to support U.S. Navy requirements for persistent surveillance. The Navy's 2016 30-year R&D plan identified Persistent Surveillance as a focus area requiring the highest level of attention and coordination. | | |
| Project City or County: | Boca Raton | Project State: | FL |
| Recipient Name: | Florida Atlantic University | Recipient Mailing Address: | 777 Glades Rd. ADM 286, Boca Raton, FL 33431 |

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The Honorable Mike Rogers
Ranking Member
Committee on Armed Services
U.S. House of Representatives
Washington, D.C. 20515

Dear Chairman Smith and Ranking Member Rogers:

I am requesting funding for Persistent Maritime Surveillance in fiscal year 2023. The entity to receive funding for this project is Florida Atlantic University, located at 777 Glades Rd. ADM 286, Boca Raton, FL 33431.

The funding will enable research, development, prototyping, testing, and commercial transition of novel remote sensing solutions on compact platforms to support U.S. Navy requirements for persistent surveillance. The Navy's 2016 30-year R&D plan identified Persistent Surveillance as a focus area requiring the highest level of attention and coordination.

I certify that neither I nor my immediate family has any financial interest in this project.

Sincerely,

Debbie Wasserman Schultz
Member of Congress

| Request ID: 159 | | | |
|-------------------------|---|---|------------------------------------|
| Project Name: | Future Nano and Micro-Fabrication - Advanced Materials Engineering Research Institute | Request Nature: | Community Project Funding |
| Member Name: | Wasserman Schultz, Debbie(D-FL) | Member's Request: (in thousands, \$000) | \$6,800 |
| Justification: | This project will help move innovations out of the university and into the marketplace and will ensure that America remains the technologically preeminent nation. | | |
| Project Purpose: | <p>Future research and training of our students will require more prevalent and standard use of nano and microfabrication equipment across all areas of manufacturing, including additive and hybrid manufacturing. Such equipment will enable the development of nano and micro satellites, smaller UAV platforms, future high data rate secure communication links, including 5G and space borne platforms, quantum computing materials and communications, smart materials, and nano composites with novel multi-functionalities needed for ubiquitous sensing, imaging, healthcare, infrastructure and security assessments, advanced manufacturing of future electronics and data gathering devices, agricultural and environment support, and space missions, to mention a few. This will help moving innovations out of the university and into the marketplace and will ensure that America remains the technologically preeminent nation. Specifically, this project will benefit research in:</p> <ul style="list-style-type: none"> • 5G/6G devices, nano and micro satellites, and manufacturing automation • Metal 3D printed circuits for antenna, wearable electronics, and biomedical devices • Compact, high performance, real-time millimeter wave camera system for airport and public area security • Non-fossil fuel energy materials and devices • Quantum computing materials | | |
| Project City or County: | Miami | Project State: | FL |
| Recipient Name: | Florida International University | Recipient Mailing Address: | 11200 SW 8 Street, Miami, FL 33199 |

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The Honorable Mike Rogers
Ranking Member
Committee on Armed Services
U.S. House of Representatives
Washington, D.C. 20515

Dear Chairman Smith and Ranking Member Rogers:

I am requesting funding for the Future Nano and Micro-Fabrication - Advanced Materials Engineering Research Institute in fiscal year 2023. The entity to receive funding for this project is Florida International University, located at 11200 SW 8th Street, Miami, FL 33199.

The funding would be used to ensure that America remains the technologically preeminent nation. Specifically, this project will benefit research on 5G/6G devices, nano and microsatellites and manufacturing automation, metal 3D printed circuits for antenna, wearable electronics and biomedical devices, compact, high performance, real-time millimeter wave camera system for airport and public area security, non-fossil fuel energy materials and devices and quantum computing materials.

I certify that neither I nor my immediate family has any financial interest in this project.

Sincerely,

Debbie Wasserman Schultz
Member of Congress

| Request ID: 161 | | | |
|-------------------------|---|--|--------------------------------------|
| Project Name: | Additive Manufacturing and Ultra-High Performance Concrete | Request Nature: | Community Project Funding |
| Member Name: | Wasserman Schultz, Debbie(D-FL) | Member's Request: (in thousands, \$000) | \$10,000 |
| Justification: | <p>Fortifying our country's military installations must be a top priority as extreme events and shifts in environmental conditions pose real threats to military readiness and response capabilities.</p> <p>Researchers at FIU are developing advanced additive manufacturing (3D Printing) methods and equipment, with focus on the construction industry. The 3D printing techniques are being used to construct innovative bridge systems and housing components in manners that minimize the traffic interruption and enhances the public and consumer safety. In particular, customized 3D printers are developed that allows use of advanced materials, such as Ultra High-Performance Concrete (UHPC) in bridge construction.</p> <p>Improving and assuring the Nation's military readiness to respond to all risks and threats is an appropriate use of taxpayer resources. This request will focus on developing and testing resilient infrastructure and related systems that the military would use to create resilient and sustainable installations, including base housing for its personnel and their families.</p> | | |
| Project Purpose: | <p>By accelerating Additive Manufacturing, Engineering and related solutions for aging infrastructure and vulnerable installations, the Department of Defense can ensure that installations are defense-ready and meeting the needs of our troops.</p> <ul style="list-style-type: none"> - Additive Manufacturing's (AM) ability to produce customized lightweight materials and parts is already enabling the creation of new military technologies that significantly strengthen U.S. defensive capabilities. - The need exists to accelerate the development of advanced additive manufacturing (3D Printing) methods and equipment, with focus on the built defense environment. 3D printing techniques are being used to construct innovative bridge systems and housing components in manners that minimize the traffic interruption and enhances the public and consumer safety and hold the promise to effectively meet a great need for DOD. - This would also address the need for resilient structures with shifting threats to our climate, as analyzed in the 2016 Report "Regional Sea Level Scenarios for Coastal Risk Management, prepared by the Coastal Assessment Regional Scenario Working Group. | | |
| Project City or County: | Miami | Project State: | FL |
| Recipient Name: | Florida International University | Recipient Mailing Address: | 11200 SW 8th Street, Miami, FL 33199 |

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Washington, D.C. 20515

Dear Chairman Smith and Ranking Member Rogers:

I am requesting funding for Additive Manufacturing and Ultra High Performance Concrete in fiscal year 2023. The entity to receive funding for this project is Florida International University, located at 11200 SW 8th Street, Miami, FL 33199.

The funding would be used for the development and testing of additive manufacturing methods of superior building products, in particular, Ultra-High Performance Concrete to produce resilient infrastructure and related systems that the military would use to rapidly build and retrofit resilient and sustainable installations, including base housing for its personnel and their families.

I certify that neither I nor my immediate family has any financial interest in this project.

Sincerely,

Debbie Wasserman Schultz
Member of Congress

Request ID: 163

| | | | |
|-------------------------|---|--|---------------------------------------|
| Project Name: | FIU/SOUTHCOM Security Research Hub / Enhanced Domain Awareness (EDA) Initiative | Request Nature: | Community Project Funding |
| Member Name: | Wasserman Schultz, Debbie(D-FL) | Member's Request: (in thousands, \$000) | \$1,300 |
| Justification: | <p>Launching a Central American Open Source Research Initiative/Coalition (CAOSRI) will complement current USG research capacity and provide U.S. leaders with innovative, unique, real-time analysis that helps advance the important goals of: promoting prosperity; enhancing security; reducing crime and gang activity; and improving governance. Specifically, such an initiative could:</p> <ul style="list-style-type: none"> • Establish a secure, virtual technology platform that facilitates information sharing. • Foster analytic exchanges between U.S. and Latin America stakeholders. • Create a shared understanding of critical security challenges facing Latin America. • Enhance U.S. and Latin American research and analytic capacities. • Cultivating future U.S. and Latin American national security workforces. • A community of thinking to promote a political culture that demands security and commitment to democracy from the institutions. • Standardized indicators and research capability that serve to monitor security and the administration of justice in the region. • Capability to monitor disinformation as it relates to USG objectives in the region. • Thought and practice partners to aid the Department of Defense in incubating and testing advancements. | | |
| Project Purpose: | <p>The Enhanced Domain Awareness (EDA) Initiative takes a whole of hemisphere approach, bringing together the best from across academia, government, civil society, think tanks, private sector, and multi-lateral organizations, to provide data and analytic power to support U.S. Department of Defense and partner nation decision makers with real time information and analysis. In addition to providing immediate access to a network of non-U.S. Department of Defense stakeholders, this project provides a repository of collected data, analytic tools, research, training and education, and a collaborative community that DOD can tap into for quick answers to decision-maker inquiries in areas including transnational organized crime, statistical analysis, critical infrastructure and resources, energy, environment, tropical diseases, national security, disaster risk management and much more. Specifically, this initiative will:</p> <ul style="list-style-type: none"> • Provide the department with an independent, unbiased, research partner to analyze the impact of security challenges/investments in Latin America and the Caribbean. • Enhance U.S. and Latin American research and analytic capacities. • Establish a secure, virtual technology platform that facilitates information sharing. • Foster analytic exchanges between U.S. and Latin American stakeholders. • Create a shared understanding of critical security challenges facing Latin America. • Cultivate future national security workforces. | | |
| Project City or County: | Miami | Project State: | FL |
| Recipient Name: | Florida International University | Recipient Mailing Address: | 11200 SW 8 Street, Miami, FL 33199 |

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The Honorable Mike Rogers
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 U.S. House of Representatives
 Washington, D.C. 20515

Dear Chairman Smith and Ranking Member Rogers:

I am requesting funding for the FIU/SOUTHCOM Security Research Hub / Enhanced Domain Awareness (EDA) Initiative in fiscal year 2023. The entity to receive funding for this project is Florida International University, located at 11200 SW 8th Street, Miami, FL 33199.

The funding would bring together the best from across academia, government, civil society, think tanks, private sector, and multilateral organizations to provide data and analytic power to support the U.S. Department of Defense and partner nation decisionmakers focusing on Latin America and the Caribbean. In addition to providing immediate access to a network of non-U.S. Department of Defense stakeholders, this project would provide a repository of collected data, analytic tools, research, training and education, and a collaborative community that DOD can tap into for quick answers to decisionmaker inquiries in areas including transnational organized crime, statistical analysis, critical infrastructure and resources, energy, environment, tropical diseases, national security, disaster risk management.

I certify that neither I nor my immediate family has any financial interest in this project.

Sincerely,

Debbie Wasserman Schultz
 Member of Congress

| Request ID: 183 | | | |
|-------------------------|--|--|---------------------------------------|
| Project Name: | U.S. Army Battlefield Exercise and Combat Related Traumatic Brain and Spinal Injury Research | Request Nature: | Community Project Funding |
| Member Name: | Wasserman Schultz, Debbie(D-FL) | Member's Request: (in thousands, \$000) | \$1,700 |
| Justification: | In this volatile world, the ongoing military conflicts and threat of terrorism increases the United States military personnel and diplomatic corp's risk of sustaining a traumatic brain and spinal cord injury. While Neuro-traumatic injuries (PTSD, traumatic brain, and spinal cord injuries) have been designated as the "signature" injuries of the wars going back to Iraq and Afghanistan, recent attacks by Russia and Iran continue to place those in charge of protecting our country in danger | | |
| Project Purpose: | <p>The Miami Project to Cure Paralysis conducts some of the most cutting-edge research in collaboration with doctors, surgeons, scientists, and researchers from various departments at the University of Miami Miller School of Medicine, Jackson Memorial Hospital, the Miami Veterans Hospital, and the Ryder Trauma Center.</p> <p>This request will provide funding for the Miami Project's rehabilitation and neuromodulation research, neural engineering, drug discovery and quality of life programs. It has the potential to change the lives for millions of traumatic brain and spinal cord injured military personnel, veterans, and the community at large.</p> <p>Funding will also allow our scientists the ability to conduct groundbreaking new rehabilitation services and clinical trials to develop new therapies and treatments.</p> | | |
| Project City or County: | Miami | Project State: | FL |
| Recipient Name: | The Miami Project to Cure Paralysis - U of Miami | Recipient Mailing Address: | 1095 NW 14th Terrace, Miami, FL 33136 |

DEBBIE WASSERMAN SCHULTZ
23rd District, Florida
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The Honorable Mike Rogers
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Committee on Armed Services
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Washington, D.C. 20515

Dear Chairman Smith and Ranking Member Rogers:

I am requesting funding for U.S. Army Battlefield Exercise and Combat-Related Traumatic Brain and Spinal Injury Research in fiscal year 2023. The entity to receive funding for this project is The Miami Project to Cure Paralysis (University of Miami), located at 1095 NW 14th Terrace, Miami, FL 33136.

The funding will allow Miami Project scientists to conduct groundbreaking new rehabilitation services and clinical trials to develop new therapies and treatments for traumatic brain and spinal cord injuries.

I certify that neither I nor my immediate family has any financial interest in this project.

Sincerely,

Debbie Wasserman Schultz
Member of Congress