

FY23 NDA COMMUNITY PROJECT FUNDING REQUESTS AS SUBMITTED TO THE HOUSE COMMITTEE ON ARMED SERVICES

| MEMBER NAME (LAST, FIRST) | STATE | PROJECT NAME | AMOUNT REQUESTED (In Thousands of Dollars) | PROJECT CITY / COUNTY & STATE | RECIPIENT NAME | RECIPIENT ADDRESS | PROJECT PURPOSE | PROJECT JUSTIFICATION | LINK TO MEMBER WEBSITE |
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| Bacon, Don | NE | Cost to Complete NDR MILCON Offutt AFB, Nebraska | 317,470 | Offutt AFB, NE | Department of the Air Force | 55 VIDEEMUS OMNIA VIEW, Offutt AFB, NE 68113 | Complete the MILCON reconstruction at Offutt AFB under the Natural Disaster Recovery program. We understand the primary subproject remaining in the NDR program at Offutt is the Non-Kinetic Operations (NKO) Facility. | I request budget authorization in FY23 to complete the disaster recovery MILCON at Offutt AFB, Nebraska as a result of the 2019 floods. Based on the most recent cost estimates provided to my office by the Department of the Air Force, I estimate the remaining amount in FY23 to be approximately \$317,470,000 (note, actual amount needed to complete may vary), the bulk of which is required to award a construction contract for the Non-Kinetic Operations (NKO) facility, also alternatively referred to as the Multi-Domain Operations (MDO) facility. Among other missions, this building will consolidate operations and intelligence squadrons for the largest aviation group in the U.S. Air Force into a single flood-resilient facility. The original DD 1391 estimate has evolved based on planning refinements. USAF informs us the current working estimate is \$317,469,260.00 ☐ | https://bacon.house.gov/resources/community-funding-projects.htm |
| Blunt Rochester, Lisa | DE | Augmenting Quantum Sensing Research, Education and Training in DoD CoE at DSU | 1,111 | Dover, DE | Delaware State University | 1200 N. DuPont Highway, Dover, DE 19901 | The project would expand the cutting-edge quantum sensing research at the DoD's Center for Excellence for Advanced Quantum Sensing located at Delaware State University, an HBCU. The project would create three new research programs at the CoE of active interest to the Army and the Army Research Laboratory, including quantum imaging of millimeter waves, optical clock development, and quantum gyroscope development. To facilitate these new research programs, the project would fund an additional 2 postdoctoral researchers, 4 graduate students, and 5 undergraduate students. This expansion would also ensure the emerging industrial base surrounding quantum sensing technology has the skilled workforce needed to maintain our nation's competitive edge. | According to Dr. Fredrik Fatemi, Branch Chief, Quantum Science and Technology, Army Research Laboratory, the proposed research expansion at the CoE is of military relevance and would complement the work conducted at the Army Research Laboratory. Dr. Fatemi further notes that the proposed expansion of researchers would help address workforce and STEM-related challenges in quantum imaging sciences (QIS). Finally, the project would provide additional support to an HBCU and a CoE created through the OSD's Historically Black Colleges and Universities/Minority-Serving Institutions (HBCU/MI) Science Program. | https://bluntrochester.house.gov/constituent-services/community-project-funding-requests.htm |
| Carter, John R. | TX | INFANTRY SQUAD BATTLE COURSE | 6,000 | Killeen, TX | Fort Hood | 761st Tank Battalion Avenue, Killeen, TX 76544 | I request \$6 million for the Infantry Squad Battle Course project which is programmed for FY27 in the Army FYDP. This project will provide Ft. Hood with the required number of Infantry Platoon Battle Courses to meet its current and projected training throughput requirements. The current assault course is antiquated and does not possess the requisite facilities to support the type of training required for today's modern Army. This request is a wise use of federal funds as, without this facility, the Soldiers at Ft. Hood will not be able to obtain and maintain efficiency for live fire training, for squad and platoon level engagements, as well as not train to standard, widening the gap between equipment fielding and training. | see community support letters | https://carter.house.gov/ |
| Carter, John R. | TX | AUTOMATED MACHINE GUN RANGE, FORT HOOD | 12,400 | Killeen, TX | Fort Hood | 761st Tank Battalion Avenue, Killeen, TX 76544 | I request \$12.4 million for the Automated Multipurpose Machine Gun Range at Fort Hood project which is programmed for FY25 in the Army FYDP. The current range does not meet Army standards and as a result, some Soldiers are required to qualify on substandard ranges using modified qualification standards. This project will support units scheduled for deployment, mobilizing units to the reserve component, and sustainment training for Active Army, Army Reserve, National Guard, and Marine Corps reserve units habitually training at Ft. Hood. This project supports the readiness of our troops and protection of the American people making this request a good use of federal funds. | see community support documents | https://carter.house.gov/ |
| Carter, John R. | TX | AUTOMATED INFANTRY PLATOON BATTLE COURSE, FORT HOOD | 12,200 | Killeen, TX | Fort Hood | 761st Tank Battalion Avenue, Killeen, TX 76544 | I request \$12.2 million for the Automated Infantry Platoon Battle Course project which is programmed for FY25 in the Army FYDP. This project will provide soldiers at Fort Hood's Reserve and National Guard units with a facility to obtain and maintain efficiency for live fire training. Existing Infantry Squad Battle Training realm is not updated to current Army standards which may cause Soldiers to enter future combat less than fully prepared to employ the full capabilities of their weapons and equipment. Ensuring our Soldiers are fully prepared for future operations makes this a good use of Federal funds. | see attachments | https://carter.house.gov/ |
| Carter, John R. | TX | BARRACKS, FORT HOOD | 81,000 | Killeen, TX | Fort Hood | 761st Tank Battalion Avenue ☐ Killeen, TX 76544 | I request \$81 million to construct a housing facility to accommodate 250 Soldiers at Fort Hood, TX. Facilities will be designed to a minimum life of 40 years in accordance with DoD's Unified Facilities Criteria including energy efficiencies, building envelope and integrated building systems performance. This request is a wise use of federal funds as the current barracks are not consistent with the current standard of one Soldier per bedroom but rather they are occupying a configuration of two Soldiers per bedroom in facilities at the end of their useful life cycle. | see community support documents | https://carter.house.gov/ |
| Carter, Troy A. | LA | Abbeville Readiness Center | 1 | Abbeville, LA | Abbeville Readiness Center | 6400 Saint Claude Ave., New Orleans, LA 70117 | The Abbeville Readiness Center is severely outdated and degraded which impacts the readiness of the state during AllHazard events and federal mission preparation. This funding will go towards design cost and will help complete the design and planning phase. | The Abbeville Readiness Center will serve as a central hub for units located in the vicinity and increase efficiency, response efforts, and mitigate unsafe conditions, which currently exist for the service members who operate out of the facility. | |
| Carter, Troy A. | LA | Camp Beauregard Energy Resilience Conservation Investment Program Project | 7,600 | Pineville, LA | Camp Beauregard | 6400 Saint Claude Ave., New Orleans, LA 70117 | The Camp Beauregard Energy Resilience Conservation Investment Program Project (ERCIP) will provide a base-wide 2MW back-up to natural gas generator. This project will also include water and energy resiliency measures and switchers to improve isolation capabilities. | This project will improve emergency operations and amplify mission preparedness by allowing for a consistent and dependable energy solution for Camp Beauregard, home to the LA National Guard's Joint Operations Center. | |
| Carter, Troy A. | LA | Munitions Administrative Facility | 10,000 | Belle Chasse, LA | LA National Guard | 6400 Saint Claude Ave., New Orleans, LA 70117 | Funding for Munitions Administrative Facility. Currently, this facility is in violation of munitions sighting requirements and munitions safety protocol. As it is, there is one room that is used both as munitions storage and office space. This is the primary area for all countermeasure and gun ammunition requirements and therefore is an issue that must be addressed. ☐ The current Munitions Administrative Facility is located in a joint use building plagued with deteriorating infrastructure that drains resources to keep it viable. With the current facility in violation of munitions sighting requirements, the new building will be housed at the Belle Chase Joint Reserve Base. This will serve as the primary area for all countermeasure and gun ammunition requirements. | The Greater New Orleans Area is a central hub of trade and travel in the Gulf South and is home to two ports and two airports making the national security interest of the region a national concern. The current Munitions Administrative Facility houses both ANG and AD Navy personnel. Munitions build up occurs in these areas complex that administrative personnel are housed. This is unsafe and a violation of munitions safety protocols. It requires all personnel evacuate the facility while build up is being conducted which hurts operations. ☐ | |
| Case, Ed | HI | Fort Shafter Water System Upgrade | 5,000 | Honolulu, HI | U.S. Department of the Army | ASA-FM&C ☐ 109 Army Pentagon ☐ Washington, DC, 20310 | The project will support the planning and design needed to construct a water system upgrade at Fort Shafter. Primary facilities include water distribution, potable water wells and pumps, storage tank, water supply facility, cybersecurity and antirterrorism/force protection measures, building information systems, fire protection and alarm systems, intrusion detection system installation, and energy monitoring control systems connection. | Fort Shafter also needs a more reliable water system to support the critical operations that occur on the base. For example, the base is the home of U.S. Army Pacific, the Army's lead command in the Indo-Pacific with the responsibility of serving as a component unit of U.S. IndoPacific Command in a conflict. Fort Shafter has seen significant growth due to the consolidation of command elements at U.S. Army Pacific's new headquarters, and the increased growth in personnel working at the base is placing an increased demand that cannot be met by the existing system. In addition, continued use of the failing water storage and system appearances increases the risk that fire response systems will fail during an emergency. Letters of support have been obtained from City and County of Honolulu Mayor Rick Blangiardi, Hawai'i House of Representative Takashi Ohno (Chair of the Corrections, Military, & Veterans Committee), and City and County of Honolulu Councilmember Carol Fukunaga. | https://case.house.gov/media/funding-disclosures.htm |

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| Case, Ed | HI | Tripler Army Medical Center Water System Upgrade | 4,000 | Honolulu, HI | U.S. Department of the Army | ASA-FM&C 109 Army Pentagon Washington, DC, 20310 | The project will support the planning and design needed to construct a water system upgrade at Tripler Army Medical Center. Primary facilities include water wells and pumps, water supply treatment building, clear well/contact tank, water mains and connection to local municipality, access road and parking, cybersecurity and antiterrorism/force protection measures, building information systems, fire protection and alarm systems, intrusion detection system installation, and energy monitoring control systems connection. | The current water system at Tripler Army Medical Center (TAMC) in Hawai'i must be replaced to ensure basic drinking water, ensure reliable fire suppression systems and support physical security requirements for the military's premier medical facility in the Indo-Pacific. If a new water system is not provided, the health of the veterans and servicemembers who depend on TAMC will be at risk. The system is already enduring line breaks and leaks, which will lead to an eventual failure of the water system that would suspend medical services, hinder fire responses and cause other impacts to TAMC's mission. Additionally, the current water wells are located outside the installation fence line, causing significant security concerns, and the wells are positioned approximately 500 feet below the current storage tanks, which results in extensive pumping utility bills costing two to three times more than the typical design. Letters of support have been obtained from City and County of Honolulu Mayor Rick Blangiardi, Hawai'i House of Representative Takashi Ohno (Chair of the Corrections, Military, & Veterans Committee), and City and County of Honolulu Councilmember Carol Fukunaga. | https://case.house.gov/media/funding-disclosures.htm |
| Castor, Kathy | FL | Identity and Signature Management Modernization | 9,000 | Tampa, FL | Arma Global | 2701 N Rocky Point Dr, Suite 1150 Tampa, FL 33607 | To provide protection to operators from enemy combatants. | To better protect the lives of American servicemembers in their effort to support America's great power competition | https://www.castor.house.gov |
| Castor, Kathy | FL | Tinker Elementary/Middle School | 2,000 | Tampa, FL | Hillsborough County Public Schools | 901 E. Kennedy Blvd., Tampa 33602 | To assist with the expansion and modernization of Tinker elementary | in 2018, it was 20% over capacity (707 students enrolled when it should be 590). | https://www.castor.house.gov |
| Castor, Kathy | FL | MacDill Air Force Base Ferry Terminal and Landside Improvements | 1,500 | Tampa, FL | Hillsborough County | 601 E. Kennedy Blvd., Tampa, FL 33601 | To facilitate the study for future procurement of: floating terminal to accommodate loading and unloading of high capacity ferry vessels as well as security processing on this floating platform. Landside canopies for passengers staging for ferry vessels and on-base transit system loading/unloading areas. Modifications of the parking and driveway facilities at the MAFB ferry terminal to accommodate loading and turning movements of the landside transit system. Acquisition of transit vehicles to be used for internal on-base circulation of ferry passengers. | To provide relief to commuters to MacDill who drive from various points across the Bay, alleviating significant traffic onto base, and relief on roads which are at high risk of flooding, backed up with traffic, and pass through residential neighborhoods. | https://www.castor.house.gov |
| Clark, Katherine M. | MA | Advancing Military Exoskeleton Technology State-of-The-Art Project | 2,890 | Natick, MA | Natick Soldiers System Center | General Greene Ave, Natick, MA 01760 | Advance and demonstrate state-of-the-art of military exoskeletons for Combat Support, Logistics and Infantry movement and maneuver | Exoskeleton can reduce physical strain while improving safety and endurance in numerous markets with high US military interest and NATO allies. Combat Support exoskeletons (CSE) are proving to reduce strain on back while lifting, reduce risk of injury and reduce recovery time, enabling longer sustained artillery and logistics missions. Movement and Maneuver Exoskeletons (M2E) are designed for walking/marching. Infantry Soldiers move more efficiently with the effects of load carriage reduced. By conserving energy and protecting the body from the effects of load and heavy carry, Soldiers are fresher for the fight and can sustain longer duration missions with less fatigue. This project would rely on Massachusetts-based small businesses to achieve the goal of providing a suite of advanced capabilities for demonstration at Project Convergence 2023 in October 2023. DEVCOM Soldier Center (SC) (Natick, MA), in collaboration with Boston Engineering (BE) (Waltham, MA) and the University of Massachusetts Lowell (UML), have been testing and evaluating exoskeleton systems for over a decade and have demonstrated both significant physiological benefits in the laboratory and high Soldier acceptance. The results of a recent Soldier evaluations provided key design guidelines for contractors of interest partnered with Boston Engineering, to include Dephy, Inc. (Maynard, MA). Dephy has outlined plans to upgrade their ExoBoot in a way that constitutes a significant leap in technology and the broodening of the applicable use-case by making the system lighter, smaller, and more ruggedized. In addition, Verve Motion (Cambridge, MA) boasts a one-of-a-kind robotic upper body lift support exoskeleton. In collaboration with BE and UML, the prototypes will be evaluated and optimized. Other similar companies are rapidly establishing more solid partnership with BE to establish MA-based presence to further expand the portfolio of exoskeletons for the Army and DoD. Boston Engineering Corporation will provide program management oversight, perform engineering/safety analysis, and lead Soldier evaluations to gather relevant data. Under BE's program management Dephy will | https://katherineclark.house.gov/community-project-funding-requests |
| Clark, Katherine M. | MA | Small Unit Digital Twin for Robotic and Sensor Systems Integration | 3,500 | Natick, MA | Natick Soldiers System Center | General Greene Ave, Natick, MA 01760 | Project will develop a Small Unit Digital Twin for Robotic and Sensor Systems. A digital twin will enable industry to rapidly integrate emerging Small Unit robotic and sensor systems into the Small Unit Command and Control (C2) system. A digital twin will also enable industry to integrate into a unified user experience for visualizing and controlling Small Unit robotic and sensor systems including aerial robotics, quadruped robotics, and unattended ground sensors. | Robotic and sensor systems are a key aspect in the modern battlespace. However, integration and operation at the individual vendor system level will create a massive cognitive burden for Small Unit leaders. Deploying, controlling, and monitoring Small Unit robotic and sensor systems must integrate into the existing Small Unit workflow and C2 systems. A digital twin will enable industry to streamline their innovations for military use at the Small Unit echelon by providing a synthetic interface to the existing military Small Unit C2 systems and a synthetic battlespace for maneuver with representative use cases. | https://katherineclark.house.gov/community-project-funding-requests |
| Clark, Katherine M. | MA | Building 2, Doriot Climatic Chambers, Exterior Repair | 3,630 | Natick, MA | Natick Soldiers System Center | Generaaaaa Greene Ave, Natick MA 01760 | Project will replace the badly degraded façade, front entrance stairs/ramp, and roof of the Doriot Climatic Chambers | The Doriot Climatic Chambers are a key facility at the Natick Soldier Systems Center, serving as a critical component of both our human research, and product development programs. The facility has four separate environmental chambers capable of duplicating environments across the globe, and supports the entire spectrum of research, development and testing executed by the Soldier Center as well as other tenant organizations. Additionally, the Climatic Chambers support outside academia and industry through testing support agreements which allow them to use this unique facility. Although we continue to make improvements to the mission capabilities of the facility, the exterior of the building has degraded significantly, and is in dire need of repair. | https://katherineclark.house.gov/community-project-funding-requests |

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| Clyburn, James E. | SC | UNMANNED LOGISTICS SOLUTIONS FOR THE U.S. MARINE CORPS | 10,500 | Columbia, SC | University of South Carolina | University of South Carolina 915 Bull Street Columbia, South Carolina, 29208 SC-06 Congressional District | <p>The United States Marine Corps (USMC) is redesigning its force and concepts of operations to counter near-peer competitors like China in the Indo-Pacific. The 2019 USMC Commandant's Planning Guidance calls for greater investment in unmanned and autonomous vehicles, and a reimagining of expeditionary operations. The USMC urgently needs unmanned solutions that rise to the challenge of expeditionary operations in the Indo-Pacific, along with emerging Navy autonomous system standards, and maritime signatures to survive in contested environments.</p> <p>While unmanned maritime systems have made impressive strides navigating open ocean environments with little human intervention, automated "perception technology" (which enables these systems to autonomously perceive the environment, obstacles, and threats for the purpose of navigation and obstacle avoidance) is still a long way from providing reliable situational awareness to safely navigate the chaotic, cluttered, and dynamic conditions of the littorals. The gap in maritime "perception technology" is a significant impediment to many USMC missions, including intelligence, surveillance, reconnaissance (ISR) and mine warfare, but especially emerging autonomous logistics and sustainment concepts. The USMC urgently requires improved automated "perception technology" capabilities and other enabling solutions for unmanned operations in the littorals.</p> <p>Scope</p> <p>The University of South Carolina (USC) has proposed a three-year science and technology (S&T) research effort to develop enabling technologies for unmanned surface vessels, with an emphasis on achieving reliable perception systems in the littoral for surface and amphibious vessels.</p> <p>Focus on sensors & perception of obstacles. The USMC and Navy have invested heavily in developing novel platforms and autonomy architectures, but gaps remain in their ability to autonomously perceive the environment, obstacles, and threats. This project is developing a modular, transferable sensor and perception kit that can be readily integrated on a variety of platforms and with a variety of autonomy architectures as a flexible, low-cost situational awareness package. The modular approach aligns with the goal of the Navy's Unmanned Campaign Framework to "disaggregate common problems, solve once, and scale solutions across platforms."</p> <p>FY21 and FY22. USMC and its industry partner, Inteltec Technologies, kicked off the first year of the S&T program in November 2021, focusing on electro-optical and infrared (EO/IR) sensors, a type of passive perception technology. Component technologies are being developed based on requirements derived from a rigorous physics-based analysis of sensing in the littoral maritime environment. Technology demonstration events are planned in collaboration with the ONR's USMC Autonomous Littoral Connector (ALC) program and with the U.S. Marine Corps Warfighting Laboratory where a prototype perception system will detect objects from an operational platform and pass situational awareness data in real-time to a government-provided autonomy package. The second year (FY22) will fuse radar into the perception system and mature the technology to achieve the high reliability objectives.</p> <p>FY23. Funding for the third year of this project is required to enhance the perception system's performance in adverse atmospheric and oceanographic conditions (e.g., rain, spray, fog, smoke, or other atmospheric obscuration, waves, currents) that have a major impact on the reliability of autonomous navigation, especially in the littorals. The project will focus on perception above, at, and slightly below the air-water interface, and will seek to integrate with other technologies that provide situational awareness of underwater hazards to a vessel's maneuvering. This capability would provide enhanced battlespace environment sensing data to support autonomous logistics and intelligence, surveillance, and reconnaissance efforts. Lastly, the object detection, recognition, classification algorithms developed in earlier phases will be further matured to improve accuracy and reliability. Multiple demonstration events of a fully integrated perception capability are planned under this year of funding in collaboration with the ALC program, culminating in an at-sea operational exercise. Internships will be provided in all years of this project, providing valuable mentorship and new career pathways in technology and the defense industrial base in Columbia, SC.</p> | <p>Benefits to the U.S. Military and U.S. Taxpayer:</p> <ul style="list-style-type: none"> •New autonomy technology that supports the USMC vision for littoral operations in a contested environment (LOCE) and expeditionary advanced base operations (EABO). •Innovative automated perception technology will enable effective unmanned operations in the littorals and contested environments. •New research and skilled workforce supporting USMC and Navy applications of artificial intelligence, machine learning, and robotics. <p>Benefits to South Carolina:</p> <ul style="list-style-type: none"> •Recruit experts in machine learning (ML), artificial intelligence (AI), remote sensing, and autonomy. •Funding for strategic hiring of research faculty at USC. •UofSC technology transition to the warfighter. •Grow academia-industry partnerships in South Carolina in defense, incubating new technologies and business opportunities. •Jobs & Internships for UofSC, Benedict College, and South Carolina State University students. •Economic development: well-paying engineering jobs in the rapidly growing unmanned systems segment of the defense industry. | https://clyburn.house.gov/congressman-clyburn-requests-fy23/c2/a0/funding-south-carolina-community-projects |
| Clyburn, James E. | SC | Manufacturing of Advanced Composites for Hypersonics – Aided by Digital Engineering | 18,000 | Columbia, SC | University of South Carolina | University of South Carolina 915 Bull Street Columbia, South Carolina, 29208 SC-06 Congressional District | <p>The National Defense Strategy has made fielding of hypersonic weapons a top priority. Technical barriers to hypersonic flight are being overcome, as evidenced by the recent successful flight test of an air-breathing hypersonic missile. However, the DoD simultaneously recognizes that the defense industrial base (DIB) lacks the capacity to manufacture hypersonic missiles, components, and other vehicles with assured quality at the rate and in the quantities required to compete with China and Russia.</p> <p>Hypersonic vehicles require materials that can withstand extreme heat, such as carbon-carbon and ceramic matrix composites. Today's manufacturing processes for these materials are slow, manual, and prone to defects that are only detected late in the cycle, or even during flight tests. The result is that manufacturing throughput for high-temperature composites is low and often suffers from unknown final part quality. A June 2020 Presidential Determination listed industrial base production capability for high-temperature composites for hypersonic vehicles as essential to national defense. The DoD and the DIB require advanced manufacturing technology that enables automated, high-rate, low-defect manufacturing for high-temperature composite systems to meet national defense needs for hypersonics manufacturing at scale.</p> <p>This project will deliver a high-rate production manufacturing process, and corresponding advanced materials development, for high-temperature composite parts and assemblies with complex geometries for hypersonic vehicle applications. Achieving higher rates of production requires both novel materials and advanced manufacturing methods that capitalize on digital engineering, physics-based and data-driven modeling, and simulation across materials development, advanced joining, process automation, and in-process monitoring to enable real-time go/no-go decision-making and process optimization.</p> <p>UofSC is a recognized leader in advanced manufacturing for composite structures, including high-temperature materials for hypersonic applications. UofSC and its industry partner Inteltec Technologies are already coordinating through the Office of Secretary of Defense (OSD) Defense-wide Manufacturing Science & Technology Program (MSTP) and Naval Surface Warfare Center (NSWC) Crane Division on opportunities to transition these technologies to DoD hypersonics flight test programs. However, additional funding is needed to ensure these critical manufacturing technologies are matured and transitioned to the DIB.</p> <p>Scope</p> <p>UofSC has proposed a three-phase manufacturing science and technology (M&ST) research program in digital engineering and advanced manufacturing processes that significantly increases the rate and quality of manufacture of high-temperature composite structures with application to hypersonic missiles and vehicles. Digital twins of the multi-step manufacturing process, supported by high-fidelity modeling and simulation and data analytics, will enable process automation and in situ monitoring of part quality.</p> <p>FY22. In its first phase, UofSC, with industry and HBCU partners, will launch the M&ST program and acquire critical experimental equipment for manufacturing high-temperature composite parts on the Columbia, SC, campus, including a pyrolysis and heat treatment chamber. Research will focus on developing in situ sensing capabilities for the pyrolysis process, resulting in a first-of-its-kind capability to detect and localize defects in parts as they occur. Digital twin models will be developed for the manufacturing processes prior to pyrolysis including the fiber layup processes. Internships with industry and HBCU partners will be provided valuable mentorship and new pathways to careers in national defense technologies within the greater Columbia, SC area.</p> <p>FY23 & FY24. For the program's second and third phases, UofSC and partners will continue to develop digital twin capabilities and integrate them into proof-of-concept manufacturing processes. Production of prototype parts will follow, using the high-rate manufacturing processes. Parts with simple geometries will be evaluated first to validate digital engineering tools before maturing to parts with complex geometries that are directly relevant for hypersonic vehicle applications. The demonstration of high-rate manufacturing of prototype parts with complex geometry using prototype digital engineering tools and manufacturing will provide an opportunity for quantitative evaluation of improvements compared to traditional fabrication standards. A technology milestone will be manufacturing prototype parts suitable for potential testing and evaluation in Navy hypersonic flight tests.</p> | <p>Benefits to the U.S. Military and U.S. Taxpayer</p> <ul style="list-style-type: none"> •Proof-of-concept for high-rate production of composite parts and assemblies with complex geometries for hypersonic vehicle applications that produces trusted quality parts with an eventual goal of 40% reduction in per unit manufacturing time. •Risk reduction of prototype parts manufactured using high-rate technology via hypersonic flight testing in collaboration with NSWC Crane. •Transition of digital engineering tools to hypersonics industrial base enabling investigation of new designs with enhanced manufacturability. •New R&D supporting continuing DoD development of advanced manufacturing technologies for advanced composite structures. <p>Benefits to South Carolina</p> <ul style="list-style-type: none"> •Showcase UofSC's composites advanced manufacturing capacity on high-profile hypersonics flight testing program. •Further strengthen UofSC's established expertise in end-to-end manufacturing process engineering for composite materials for aerospace and defense applications. •Expansion of a manufacturing process collaborative research and development facility to further strengthen UofSC's offerings to commercial industry partners and sustainable investment. •Strategic hiring of research faculty at UofSC and attracting of U.S. citizen engineering students, particularly from HBCU partners such as South Carolina State University and Benedict. •Funding for acquisition of high-value laboratory equipment (pyrolysis chambers) provides UofSC with unique research capability among peer academic institutions. •Promote a growing ecosystem of academia-industry partnerships in South Carolina for developing synergistic capabilities, technologies, and new business opportunities, centered on the economically vital defense industry. •Internships for students from UofSC, Benedict College, and South Carolina State University. •State economic development: high-salary engineering jobs in strategically important industries of manufacturing, aerospace, and defense. <p>Foundation for a Successful Research Program</p> <p>Dr. Paul Zehli and colleagues in the UofSC College of Engineering and Computing (CEC) have established a strong reputation for advanced manufacturing research over decades of funded projects with NASA, DOD/USAF, NSF, and commercial industry. Recent high-profile projects include the NASA X-45 to Aircraft to Spacecraft project, and the US Air Force Research Laboratory (ARL) Manufacturing of Carbon-Carbon Composites for Hypersonics Applications (MOCH3A) project. UofSC has a successful track record working with subcontractors Inteltec Technologies LLC and University of Southern Mississippi.</p> <p>The proposed project builds on established expertise and provides new funds for additional equipment, faculty, and support of graduate and undergraduate students. Furthermore, Inteltec Technologies LLC and Dr. Zehli have been working directly with the project sponsor at the OSD since January 2021 to establish strong government support for this project. OSD has provided Dr. Zehli with a clear contracting strategy for any appropriations and has demonstrated their commitment to this project by dedicating core OSD "seed" funding to begin a preliminary research contract in FY22. Congressionally appropriated funds in FY23 & FY24 can be added to this initial contract, shortening the typical time to award and reducing acquisition risk and uncertainty. Overall, this project stands a very high chance of transition success if the funds are appropriated.</p> | https://clyburn.house.gov/congressman-clyburn-requests-fy23/c2/a0/funding-south-carolina-community-projects |
| Clyburn, James E. | SC | TALENT AND TECHNOLOGY FOR NAVY POWER AND ENERGY SYSTEMS | 10,500 | Columbia, SC | University of South Carolina | University of South Carolina 915 Bull Street Columbia, South Carolina, 29208 SC-06 Congressional District | <p>The 2019 Naval Power and Energy Systems Technology Development Roadmap (NPES TDR) is the Naval Sea Systems Command strategy to affordably deliver the electrical power for a ship's propulsion, weapons, sensors, and service. Central to the NPES TDR's strategy is the development of integrated, shared energy storage and advanced control systems.</p> <p>The NPES TDR outlines how technology gaps must be addressed before integrated electric power and advanced power controls will become a reality. For the next generation Large Surface Combatant (DDGX), for example, integration and control of NPES elements into a functional system is viewed by Navy technical leaders as the biggest risk. The project supports risk reduction for these Navy programs by transitioning critical digital twin and control technologies developed and tested at the University of South Carolina (UofSC) to the Navy.</p> <p>This project will deliver an advanced control system enabled by digital twin technology: capable of autonomously coordinating multiple power generation sources with large propulsion and mission weapons and sensors loads, while maintaining stable power distribution and optimizing mission effectiveness in various warfighting scenarios. The result: The Navy will more affordably achieve its vision for integrated electric power for its ships.</p> <p>UofSC is an acknowledged leader and proven performer in shipboard power electronics hardware and control systems, evidenced by ongoing work with Navy warfare centers and the Electric Ship Research and Development Consortium over the past 19 years. There are demonstrated expertise and key technologies at UofSC that can be transitioned to the ship designers/builders and fleet to meet stated warfighter needs. UofSC has recognized skill and a strong delivery record in digital twin models for power and energy systems, distributed power electronics control architecture, and the Smart Systems Laboratory (SSL) software. It will partner with Inteltec Technologies LLC to mature these technologies and deliver them for transition to other Navy test facilities, the Large Surface Combatant (DDGX) program, and Medium and Large Unmanned Surface Vessel (MUSV, LUSV) programs. It is well understood that this integrated electric power system research is key to unlocking the full warfighting potential of future surface combatants, and other ship classes.</p> <p>In addition to the development of new technologies, it is also a critical element of the Navy's economic development and improvement of the "electrical power engineering competency" of the Navy and its industrial base to support the fielding of these technologies. According to the NPES TDR, "Emergent technologies require the Navy to update the Electrical Power Engineering educational curriculum [...] Training the Human Resources Enterprise in these advanced [power engineering] technologies will boost the knowledge, skills, and abilities of the fleet." The UofSC is uniquely positioned to support this workforce development effort, as in some one of the nation's leading power electronics groups. Both seasoned and newly recruited UofSC faculty will train the next generation of students in the theory and application of these emergent power engineering technologies, so that upon graduation they can pursue careers performing research, design, testing, evaluation, operation, and maintenance of these systems for the U.S. Navy and its industrial base.</p> <p>[Continued below]</p> | <p>Benefits to the U.S. Military and U.S. Taxpayer:</p> <ul style="list-style-type: none"> •Transition technology to fulfill known requirements: Application of S&T technology funded in previous fiscal year budgets to support known DDGX power integration requirements, and MUSV and LUSV power reliability and energy management. •Transition technology to Navy warfare centers for ship-relevant load test and evaluation. •Deliver prototype: Tactical Energy Management controls system and embedded digital twin algorithms to maximize a ship's mission capability by optimally controlling its electric power for a ship's propulsion, weapons, sensors, and services. •New R&D supporting digital transformation: Perform new R&D supporting continuing Navy development of digital twins, and integrated power and energy systems (IPES) for other platforms and programs. •Develop skilled power engineering workforce: Develop the next generation of U.S. electrical power engineering workforce trained on the theory and application of emergent technologies to support their transition to and sustenance in the fleet. <p>Benefits to South Carolina:</p> <ul style="list-style-type: none"> •Promote growing academia-industry partnerships in South Carolina and new business opportunities centered on the economically vital defense industry. •State economic development: New high-salary engineering jobs in the rapidly growing power and energy segment of the defense industry. •Build strength and capacity of unique UofSC expertise: Showcase and apply the long track record of UofSC's electrical power engineering expertise and build capacity to address Navy challenges. Further strengthen UofSC's expertise in power and energy hardware and software development. Strategic hiring of research faculty at UofSC to grow research funding and student enrollment. •Increase diversity of STEM student pipeline: Internship program for students from UofSC, Benedict College, and South Carolina State University, and pathway for underrepresented minorities to pursue advanced engineering degrees. | https://clyburn.house.gov/congressman-clyburn-requests-fy23/c2/a0/funding-south-carolina-community-projects |

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| | | | | | | | <p>Scope:LoSC is working on a four-phase science and technology (S&T) program to develop integrated power system (IPS) controls technologies using concepts such as: embedded digital twins, edge computing, posture-based plant pre-alignment, and continuous plant optimization. Together these component technologies will fill key gaps remaining in the Navy's ability to field integrated power and energy systems and reduce risk, thereby continuing to ensure transition of LoSC technologies to the ship acquisition program. In each phase, LoSC and its industry partner will provide opportunities for students to learn the theory and application of emergent power engineering technologies on real electrical systems to support the program's workforce development goals. LoSC proposes a fourth phase of this program to complete transition of the IPS controls technologies to Navy stakeholders.</p> <p>FY20 and FY21. In its first two phases, LoSC and industry partners launched the S&T program and developed the building blocks for digital twin models of major components of Navy ship power and energy systems. LoSC hired three new faculty, supported 14 researchers and students, and designed a land based "Integrated Power and Energy System Digital Twin Testbed." The testbed will enable the LoSC-led team to rapidly experiment, learn, and prove the feasibility of digital twin and controls technologies on a system emulating a next-generation ship power architecture. The testbed is located on its Columbia, SC, campus and will support Navy research for many years. Internships and new jobs with industry partners were created; they will continue, providing valuable mentorship and new pathways to careers in technology and national security in Columbia, SC.</p> <p>FY22. For the program's third phase, LoSC will significantly increase the power, complexity, and number of experiments performed on its Digital Twin testbed with the goal of achieving a minimum technology readiness level of five (TRL-5). This will be a major milestone for demonstration and evaluation of "Tactical Energy Management" (TEM) technology, at ship-relevant power levels, in the Naval Surface Warfare Center (NSWC) Philadelphia Division's Test Facility. Digital twin and controls systems will continue to be refined as new experiments gather additional test data and performance measurements. Additional faculty and U.S. citizen graduate students will be recruited.</p> <p>FY23. New funding is required to deploy LoSC's digital twin and advanced controls technology to address stated integration and control challenges unique to the DDGX configuration. The LoSC and Integer Technologies partnership has built strong relationships with NSWC Philadelphia, the NAVSEA DDGX program office (PMS 460), and the NAVSEA Unmanned Maritime Systems program office (PMS 406) over previous years. The team is now positioned to apply the technology developed in earlier years to two high-priority power integration challenges identified by PMS 460 during its August 2021 Industry Day. [Details are intentionally omitted here due to government distribution restrictions. Further information available from the Points of Contact.] New power conversion hardware solutions will be built and validated to address specific power integration requirements cited by NAVSEA. In addition, the LoSC Digital Twin testbed will be leveraged to test and evaluate new technologies for suitability for the DDGX, MUSV, LISV, and other programs.</p> | | |
| Clyburn, James E. | SC | Resilient Autonomous Systems Research and Workforce Diversity | 8,500 | Columbia, SC | Benedict College | Benedict College 1600 Harden St. Columbia, SC 29204 SC-06 Congressional District | <p>The Department of the Navy (DoN) envisions a future force that trusts intelligent autonomous systems (IAS). "IAS is the confluence of Autonomy with Unmanned Systems (US) and Artificial Intelligence (AI)" that enables key warfighting advantages such as decision superiority and affordable, distributed capability.</p> <p>To address the threats posed by peer adversaries, the Navy and Marine Corps are transitioning toward a "distributed maritime operations" concept, which means platforms, sensors, and weapons are more autonomous, more interconnected, more physically spread out, and more physically spread out. IAS will be critical to the success of this concept. IAS involves complex interdependencies among cyber and physical systems, including software, communications and data infrastructure, sensors, weapons, and platforms. These complex interdependencies introduce cyber vulnerabilities and make it difficult to ensure that IAS is performing as desired in the dynamic, unstructured, uncertain, and contested maritime environments.</p> <p>IAS has large "attack surfaces" that offer malicious actors many vectors for cyber-attacks, ranging from "spoofing" sensors to denial of service (DoS), flooding, intercepting and altering data exchange, and insertion of malicious software. For these reasons, it is necessary to harden IAS against cyber-attacks and detect, decide, and respond to cyber-attacks on IAS, autonomously and in real-time.</p> <p>The Navy's S&T Strategy for IAS, establishes safety, survivability, and predictability as necessary precursors to integrating IAS as trusted members of the Naval Enterprise. Therefore, new technology and tools are needed to accelerate the development and testing of IAS that quantify their safety, survivability, and predictability when subjected to cyber-attacks.</p> <p>In addition to new technologies, the Navy recognizes that people are a strategic resource needed to realize the IAS vision. Recruiting, educating, training, and retaining a world-class workforce is one of nine strategic goals identified in the Navy's IAS S&T Strategy. America's historically black colleges and universities (HBCUs) are underutilized sources of science, technology, engineering, and math (STEM) graduates who are also largely U.S. citizens. Both STEM skills and citizenship are critical to the future national security workforce. A proportionally large percentage of HBCU undergraduate populations are U.S. citizens. HBCUs have the capacity to supply in-demand STEM talent to the national security workforce. More broadly, this program incorporates the top three of five "Best Practices for Diversity and Inclusion in STEM Currently Used by Federal Agencies", published in a Sep 2021 report. These include: 1) Cultivating partnerships and collaborations, 2) Engaging Minority Serving Institutions (MSI) as equal partners with Federal agencies, and 3) Providing authentic and culturally relevant STEM engagement and research experiences for youth and interns. Strengthening relationships between the DoN and HBCUs will bolster both HBCU capacity and the diversity of the national security STEM workforce. Further, equitable partnerships between and among universities and industry are important generally but being specific benefits when the parties are working on a joint project, and when in close proximity to each other, as they are in the case of Integer Technologies LLC and Benedict College, which are headquartered less than a mile from one another in Columbia, SC.</p> <p>[Continued below]</p> | <p>Benefits to the U.S. Military and U.S. Taxpayer: *Digital engineering tools for automated cyber resiliency testing to transition to Navy autonomous systems stakeholders, such as the Rapid Autonomy Integration Lab (RAL) within PMS 406. *New applied research supporting continual DoD development of platform-agnostic, core technologies for safe, secure, reliable, and predictable autonomous systems. *Technology demonstrations showing the ability to detect and respond to cyber-attacks in multiple autonomous systems, including high-priority applications such as autonomous vehicle perception systems and autonomous controls for ship machinery and electrical systems. *New career pathways for underrepresented minority U.S. citizen STEM graduates from HBCUs that have knowledge, skills, and experience working on Department of Defense problem sets.</p> <p>Benefits to South Carolina: *Funding to develop a master's degree program in the computer science and engineering field at Benedict College to inaugurate the first graduate engineering degree of its kind at an HBCU in South Carolina. *Funding for strategic hiring of new research and teaching faculty at Benedict College. *Expanded degree-based apprenticeship program for students from Benedict College and other SC-based HBCUs with Integer Technologies and other local software and STEM companies. *Promote academia-industry partnerships in South Carolina to develop a skilled and diverse STEM workforce, centered on the economically vital aerospace and defense industries. *State economic development: high-salary engineering jobs in the rapidly growing cyber security and autonomous systems segments of the defense industry.</p> | https://clyburn.house.gov/congressman-clyburn-requests-f23/c2%0afinding-south-carolina-community-projects |
| | | | | | | | <p>Scope Benedict College (Benedict) and Integer Technologies LLC (Integer) propose to perform a three-phase science and technology (S&T) applied naval research program on RESILIENT AUTONOMOUS SYSTEMS RESEARCH & WORKFORCE DIVERSITY. This work builds on autonomous and vehicle research currently being conducted by the University of South Carolina (LoSC) and Integer.</p> <p>This proposal has two primary goals: 1) develop new software development techniques and automated cyber security methods and tools to improve trust and resilience of IAS against cyber-attacks; and 2) build a college curriculum that will educate and train a cohort of students at the undergraduate and, eventually, graduate levels in resilient and intelligent autonomous systems. Benedict will research novel methods for secure software development and deployment (known as DevSecOps), detecting and responding to cyber-attacks on IAS, as well as methods for automatically assessing the performance of the IAS. Integer, Benedict's partner, will develop digital engineering tools based on these methods and deploy them on actual prototype IAS, on which Integer is already working with the LoSC. Integer will provide two IAS testbeds for demonstrating the new test and evaluation methods:</p> <ol style="list-style-type: none"> 1. Test the performance of an autonomous ship's integrated power and energy system (IPES) controls. 2. Test the performance of an electro-optical and infrared (EOIR) perception system for unmanned surface vessels that uses AI for object detection and classification. <p>These demonstrations will show the generalizability of the cyber test and evaluation methods to multiple IAS types. This approach aligns with the Navy's interest to invest in platform-agnostic core technologies that can benefit multiple unmanned system programs. This project builds on research by Benedict in the areas of intelligent cyber-physical systems and cybersecurity for autonomous systems and research by Integer on maritime IAS for U.S. Navy engineering programs.</p> <p>FY23. In its first phase, Benedict will begin developing methods to emulate, detect, and mitigate cyber-attacks focusing on sensor 'spoofing', hijacking of data exchange, Denial-of-Service, flooding, false information, impersonation, etc., between the various computing elements of IAS. For example, Integer's EOIR perception testbed will be leveraged to quantify the reliability of object detection and classification when subjected to pixel-level manipulations and distortion. Integer will expand its SC HBCU degree-based apprenticeship program in cybersecurity and software development (established in 2021), providing valuable mentorship and new career pathways in technology and national security within Columbia, SC. Benedict will hire strategic faculty to expand the research and educational capacity of its Computer Science and Engineering departments.</p> <p>FY24 & FY25. For the program's second and third phases, Benedict and Integer will expand their research to new categories of cyber-attacks, such as manipulation of data in storage and insertion of malicious software. The scope of demonstration cases will be expanded in parallel, leveraging Integer's prior work developing autonomous controls for ship IPES. A critical technology milestone will be demonstrating the generalizability of cyber-attack detection and emulation methods to multiple applications. New research will investigate novel methods for self-adaptation of resilient IAS to survive and recover from cyber-attacks. Benedict will initiate a graduate engineering degree program.</p> | | |
| DesJarlais, Scott | TN | Nitrogen Conversion Facility | 5,100 | Arnold AFB, TN | Arnold Air Force Base | 100 Kindel Dr. A242 Arnold AFB, TN 37389 | <p>Seek to construct a new nitrogen conversion facility outside the J4 test cell explosives zone at AEDC. This new facility will include all equipment to store and convert liquid nitrogen to 5000 psig gaseous nitrogen and will be tied into the utility Gaseous Nitrogen (GN2) system.</p> <p>The current nitrogen conversion facility was constructed more than 20 years ago and was designed assuming there would be a second facility, but to date there is not a backup facility. The current facility is also within the J4 explosive clear zone.</p> | <p>AEDC's Gaseous Nitrogen (GN2) is currently provided by a single liquid conversion plant to the following users: J6, J1, J2, T3, C1, C2, SL2, SL3, 16T, 4T, HTL, G-Range, PWT Plant, and C-Plant. Between all of these facilities there are potential impacts with the Turbine Engine Testing capabilities, Aeropropulsion Wind Tunnel capabilities, Rocket Stand capabilities, Hypersonics testing capabilities, and more. The current facility is located within the explosive safety clear zone of the J4 Liquid Rocket Engine Test Facility. This plant provides service across AEDC. If this plant is damaged/destroyed due to an explosive mishap at J4, AEDC test capability would be negatively impacted. The base GN2 Plant is currently operating under an explosive safety waiver. The plant is in violation of explosive safety standard because it is inside the blast zone of J4.</p> | https://desjarlais.house.gov/media-center |
| Dunn, Neal P. | FL | Tyndall AFB Natural Disaster Recovery Projects | 95,300 | Tyndall AFB, FL | Tyndall Air Force Base | 501 Illinois Ave Ste B Tyndall AFB, FL 31005 | <p>These projects will support and continue the Tyndall AFB reconstruction after Hurricane Michael and support the ongoing Installation of the Future project. This allocation to Tyndall AFB is a good use of taxpayer funds because it helps ensure MILCON projects at Tyndall AFB have the proper funding support to be completed on time and provide continued support to the local economy.</p> | DD1391 attached. | https://dunn.house.gov/votes-and-legislation |

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| Garamendi, John | CA | Scalable comprehensive workforce readiness initiatives in bioindustrial manufacturing that lead to regional bioeconomic transformation and growth | 6,000 | Solano & Yolo County, CA | Bioindustrial Manufacturing and Design Ecosystem | 5885 Hollis Street, 4th Floor, Emeryville, CA 94608 | <p>To develop the theme, we have identified FIVE critical interdependent projects that additively contribute to create a workforce ecosystem based on best practices with the potential to accelerate the workforce capacity and capability of a region. As an exemplar, this theme is specifically designed around existing resources identified in the region served by the Interstate 80 corridor that spans Richmond, Fairfield, Vacaville and Davis in California. Importantly, this modular strategic approach is scalable, sustainable, and directly addresses the skilled technical labor required for a growing bio-manufacturing industrial base in similar regions across the nation.</p> <p>(1) Subproject Title: Design, Development, and Expansion of technical workforce training programs in biomass upstream and downstream bioprocessing. - This project will capitalize on the existing instructional facilities and resources of BioMADE members in the region (Solano Community College, UC Davis, Industry). The project will enhance existing successful programs in upstream and downstream bioprocessing. Funding will provide additional instructional equipment (i.e. bioreactors, analytical instrumentation), reagents, supplies, teaching and support staff to provide instruction for CTE programming for feedstock/biomass processing at pilot scale.</p> <p>(2) Subproject Title: Soldier to Scientist: Engaging the Defense Manufacturing Community in accelerated, accessible workforce training in bioindustrial manufacturing (Hybrid/Hyflex instruction). - This project will fund development of instructional modules covering bioprocessing topics such as extraction, fermentation, upstream, downstream, and pump operations. Asynchronous, online learning will deliver 70% of the training curriculum. Upon completion, the participant will attend a two-week, hands-on training in a dedicated training space. This model of hybrid/hyflex online learning and instruction would provide a more flexible learning mode designed around the pace and needs of defense personnel. As an extension, this also provides increased opportunities to engage rural communities that have limited access to brick-and-mortar instructional facilities.</p> <p>(3) Subproject Title: Early intervention and career development pathways in bio-manufacturing through regional expansion of intensive Introductory College-Level Experience in Microbiology (CLEM). - The Introductory College Level Experience in Microbiology (iCLEM) program provides Bay Area youth from communities traditionally underrepresented in the sciences with paid research internships in state-of-the-art academic, industry, and federal labs.</p> <p>(4) Subproject Title: Community-to-Career tiered-mentoring in science and technology for a resilient and sustainable workforce in bioindustrial manufacturing. - This initiative proposes to build a network of CBOs, educators, scientists, industry representatives, and other subject matter experts to guide science and technology interested students toward a pathway for placement in the bioindustrial manufacturing sector. This will include regional partners from the Engineering Biology Research Consortium (UC Berkeley) who are actively engaged in cross-disciplinary STEM education and mentoring.</p> <p>(5) Subproject Title: Professional Development bio-manufacturing training programs for workforce educators, incumbent and adult learners. - This project will support equipment acquisition for training educators (train-the-trainer). Incumbent and adult learners in and around the 'corridor' community. Instruction in the bio-manufacturing lab will offer hands-on training and real-world exposure to operational procedures and technical skills development. Required coursework will be completed (online, onsite, hybrid, and hyflex) in addition to work performed in the instructional bio-manufacturing laboratory at designated sites (Community Colleges - Laney, Solano, and American River College, Universities, and other BioMADE-member facilities).</p> | <p>Resilient and sustainable systems-level change for increased capability and capacity for the Bioindustrial Manufacturing innovation and workforce development base. Post-funding, all project deliverables and activities listed below are sustained through institutionalization via academic, industry, and/or community serving BioMADE MII partnerships.</p> <p>Various projects will:</p> <ul style="list-style-type: none"> The project will provide core instructional materials for ready dissemination, a centralized, dedicated industry-based facility, and a 5-fold increased capacity for industry-designed worker training. The target population includes credential attainment for the certificate to bachelor's degree level for skills and competencies in bio-manufacturing. This accelerated training is primarily geared toward veterans and transitioning military personnel that already possess solid technical skills and will provide the opportunity for quick placement in the regional workforce. The primary site for program management (Solano Community College) is located in the service zone of Travis Air Force Base in Fairfield, CA. iCLEM targets high potential, low-income high school students who have a deep interest in science or engineering and for whom this program would provide the critical difference in pursuing a higher education degree and a career in science. This project will expose students with little to no science background to high technology, sustainable wage careers in bioindustrial manufacturing. This project will support the development of well-qualified educators and workforce professionals, opportunities for career advancement through retraining and upskilling. The project will engage regional workforce development boards, institutes of higher education, and business & industry partners to create new opportunities to develop and expand career pathways in bio-manufacturing. | https://garamendi.house.gov/legislative-work/community-project-funding |
| Garamendi, John | CA | KC-46 ADAL SIMULATOR FACILITY, B179 | 7,500 | Solano, CA | 60 Wing Base | TRAVIS AIR FORCE BASE □ TRAVIS AIR FORCE BASE SITE 1 □ CALIFORNIA | This project will construct a flight simulator addition to building 179. Construction will consist of a steel frame high-bay facility with reinforced concrete foundation and floor slab, structural steel framing, masonry walls, standing seam metal roof, garage doors, exterior access, fire detection and protection, upgrades to the two existing cranes, and special security enhancements. | The facility is required to support operation of Weapon System Trainers, Boom Operator Training devices, Pilot Part Task Training, and associated functions. The project will allow aircraft training, for the new KC-46A aircraft, to occur in an adequately sized and configured facility that will enable training and support the bed down of KC-46A aircraft. The facility will include space to store aircraft parts and a mechanical room. Areas for performing classified and unclassified work are required. Classified work areas will require installation of an Intrusion Detection System. Secure communications capability is also required in order to support Distributed Mission Operations. This is not a tenant or supported service requirement. | https://garamendi.house.gov/legislative-work/community-project-funding |
| Garcia, Mike | CA | Critical Non-Destructive Inspection and Training for Key U.S. National Defense Interests through College of the Canyons Advanced Technology Center | 2,000 | Santa Clarita, CA | College of the Canyons | 26455 Rockwell Canyon Road □ Santa Clarita, CA 91355 | This project is for the purchase of equipment for the creation of a training program to allow the College of the Canyons' Advanced Technology Center to train students in Non-Destructive Inspections. | <p>College of the Canyons (Santa Clarita Community College District) in California proposes a significant program to fund critical training and needs related to the support of national defense priorities. College of the Canyons serves as the only public two-year college within a strategic 367-square-mile service area with critical training responsibilities for aerospace workers in the region. Located in the heart of the Santa Clarita Valley in northern Los Angeles County, College of the Canyons is located near key centers of military air research, such as Edwards Air Force Base and the nearby Antelope Valley, as well as many manufacturing and engineering firms. According to AirKearney, California is a global Aerospace leader, holding 9% of the combined global Space and Aircraft market, representing \$61.6 billion, and College of the Canyons serves as one of the preeminent education providers. Additionally, the Santa Clarita Valley is home to the largest collection of master-planned business parks and residential communities in Los Angeles County. Nearly 30 million-square feet of industrial and commercial property is currently in use and with additional state-of-the-art property under construction in this growing region, there is tremendous demand for aerospace technicians accompanied by new opportunities for technicians within the rapidly expanding aerospace industries. College of the Canyons' Advanced Technology Center will serve as a central hub for preparing technicians for these high-skill, high-wage, industry-critical jobs by training them in the latest technology demanded by employers. In addition, this proposal supports a critical need for Air Force and other national defense requirements.</p> <p>Non-destructive inspections (NDI), based on technician training, are performed to identify internal and external imperfections in aircraft as part of the determination of structural integrity, composition, and properties. Equipment and training for technicians skilled in non-destructive inspection have many implications for national defense capabilities as well as supply line impacts. Every military aircraft, including key flight platforms such as the F-35, B-2, F-16, F-18, are required to go through NDI prior to flight. Military aircraft adhere to national aerospace standards, which include inspection requirements. NDI training, qualification, and certification is done in accordance with criteria and requirements such as the Aerospace Industries Association National Aerospace Standard NAS-410 Certification.</p> <p>The rapid growth in industrial automation and advanced technology has created a clear need for NDI through the Advanced Technology Center equipment and training for technicians capable of this critical work. NDI is an important part of aviation safety and is used to inspect components throughout production and it is also used to qualify existing materials and inform the design of new materials. NDI ensures material quality during key manufacturing steps, such as component joining, and ongoing NDI testing includes follow-up inspection for aircraft and materials to ensure safety at regular intervals, which ensures overall airworthiness and component stability.</p> <p>By creating an NDI training program at its Advanced Technology Center, College of the Canyons will enable key defense and industrial companies to maintain their technological advantage and enhance national security and aircraft safety. Aerospace manufacturers such as Lockheed, Boeing, and Northrop Grumman are currently experiencing a shortage of trained technicians to do this inspection, yet most metal and composite aircraft components must be subjected to multiple non-destructive inspection methods before being installed on an aircraft. Equipment and training through the Advanced Technology Center at College of the Canyons will provide technicians with the capabilities needed to work with the testing methods used by NDI, such as X-ray, ultrasound radiography, penetrant testing, eddy current, and thermography. The equipment and training of NDI technicians contributes to national defense support, serves the industrial base, and ensures feasibility to fly.</p> <p>College of the Canyons has identified clear employment needs in the northern Los Angeles County region related to this work. New jobs are being created in the Santa Clarita Valley due to growth in mid-sized manufacturing firms such as B&B Manufacturing, Crossover, TA Aerospace, and ITT Aerospace Controls. Qualitatively, as demonstrated by advisory board meetings and conversations with larger employers in the region such as Northrop Grumman, this gap is projected to grow with the anticipated retirement of 30% of their workforce in the next 5 years. This need is great and anticipated to grow, as evidenced by notable examples such as Northrop Grumman's recently signed 60-year aviation contract with the military. By training additional workers through the Advanced Technology Center, Northrop Grumman intends to hire 30 individuals every six months for the foreseeable future. This example is one of many demonstrating the need in the employment pipeline in the defense and aviation sector with projected long-term growth.</p> | https://mikegarcia.house.gov/about/committees-and-caucuses.htm |

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| Golden, Jared F. | ME | Partnerships for Manufacturing Training Innovation | 8,000 | Orono, ME; Brunswick, ME, and South Portland, ME | University of Maine | The Advanced Manufacturing Center, University of Maine, 5796 AMC Building, Orono, ME 04469. | Proposal to create an Industry 4.0 Readiness System by establishing three Manufacturing Training Innovation Centers (MTICs) to be located in Orono, ME, Brunswick, ME, and South Portland, ME. The proposed MTICs will coordinate efforts and leverage existing UMaine Advanced Manufacturing Center (AMC) and Southern Maine Community College (SMCC) resources. To build up these centers we will work directly with three key defense industry prime suppliers, one in each region. These key industry partners are Comptech Inc. in Bangor, General Dynamics Bath Iron Works, Brunswick Maine, and General Dynamics Ordnance and Tactical Systems, Saco Maine. | Maine's economic growth is limited by three systemic problems: (1) a reduction in demand for Maine's traditional forest-based products, (2) industry has been slow to adopt advanced manufacturing practices, and (3) industry has been unable to find, keep, and develop a diverse, skilled workforce. The recent emergence of Industry 4.0 – a suite of advanced manufacturing practices including big data, analytics, automation, additive manufacturing, artificial intelligence, simulation, robotics, business intelligence, invigorated repair process, and quality systems – presents an opportunity for Maine's manufacturers to either fall further behind regional, national, and international competitors, or to become leaders and be an engine for economic growth. To seize this opportunity, Maine's manufacturers need to overcome four limitations: (1) unfamiliarity with Industry 4.0 technologies; (2) risk avoidance due to limited staffing and capital budgets; (3) inability to understand and quantify maintenance and ongoing costs; and (4) lack of a trained workforce able to utilize and expand the technology. The need for an upskilled, next-level workforce in Maine is critical for our manufacturers and defense industry to remain regionally, nationally, and internationally competitive. The Industry 4.0 Readiness System will work with industry to provide Industry 4.0 assessment and implementation assistance/coaching across Maine's entire ecosystem. In the first step, MTIC staff and students will partner with companies to provide a 360° assessment of Industry 4.0 readiness similar to models developed in other states. Next, MTIC staff will work with each company to develop pathways to technology adoption, workforce training, and technology development/research. UMaine and SMCC student interns will be integral to the development and execution of assessments and implementation pathways, thus training the future workforce. The requested funding will provide additional operational funding, staff, and equipment to the AMC, thus greatly expanding the AMC's ability to provide \$17 of economic benefit to Maine for every \$1 spent. Specific growth areas will include: (1) offer experiential learning to Maine's and New England's future engineers, (2) Industry 4.0 research projects for Maine industry, and (3) assess and assist Maine companies to capitalize on Industry 4.0 technologies and training. Further, the AMC will be able to engage with national resources such as The National Center for Defense Manufacturing and Machining (NCDMM) and the New England regional Defense Industry Collaboration (NERDIC) to bring national recognition and solutions to Maine's expanding defense suppliers. The MTIC in Brunswick, ME will leverage and be co-located at SMCC's Midcoast campus. This project will allow the college to create three large multi-use labs that can meet workforce, short-term, credit-based training programs in areas such as welding, plasma cutting, metal work, basic electrical, and fabrication as well as a high-tech lab space for innovation and applied research related to advanced manufacturing including robotics. The MTIC in South Portland, ME will leverage and be co-located with SMCC's South Portland campus. The facility will serve as a laboratory for academic programs as well as a hub for local industry to develop advanced manufacturing production knowledge and explore novel product designs. The facility will house industry users and students and be equipped with advanced manufacturing tools including a metal additive manufacturing system. Hence, the facility will drive innovation for and collaboration on "real world" projects providing unprecedented educational experiences and future employment opportunities for students and skilled workforce for industry. Companies would provide fee for service and fee for training, similar to the way the AMC operates currently. We would also hope to see additional opportunities for federal grants and student tuition/scholarship philanthropy. Economic Benefit to Maine: Manufacturing accounts for \$5.83B of Maine's GDP. If this program can assist Maine manufacturers increase their efficiency by just 5% it would have a \$300M impact on the state. | https://golden.house.gov/community-project-funding-selections |
| Gonzales, Tony | TX | Lackland Air Force Base BMT Recruit Dormitory 8, INC 3 Cost to Complete | 5,400 | San Antonio, TX | JBSA-Lackland | 2230 Hughes Avenue JBSA-Lackland, TX 78236-5415 | Funds will be used to construct a Basic Military Training Recruit Dormitory utilizing conventional design and construction methods to accommodate the mission of the facility. | A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. To support current accession rates, a total of 8 Recruit Housing & Training facilities are required to accomplish the Basic Military Training mission at Lackland AFB. Recruit Housing and Training facilities, the Basic Military Training program, and Lackland AFB form an initial and lasting impression of the Air Force to all new recruits. Current facilities were constructed in the 1960's and 1970's and are outdated and inadequate to support current and planned accession of Air Force Active Duty, Reserve, and Air National Guard personnel when considering future force structure and depth. Without quality Basic Military Training programs and state of the art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. | https://gonzales.house.gov/services/community-project-funding-disclosures |
| Gonzales, Tony | TX | JBSA-Randolph Child Development Center | 29,000 | San Antonio, TX | JBSA-Randolph | 1150 5th Street East JBSA-Randolph, Texas 78150 | This funding would be used to construct a new Child Development Center at Randolph Air Force Base. | Joint Base San Antonio is the largest Joint Base in the Department of Defense. JBSA-Randolph Child Development Centers are at capacity with 214 children, and there is a waitlist of 177 children for active duty dependents. Temporary facilities are not an option for child care due to strict fire life safety codes and the cost to renovate would exceed the value of the building. The need for additional on-base childcare is critical due to the lack of affordable, accredited facilities on the local economy. Most of the off-base facilities cannot support the odd-shift hours that many of the military personnel experience. Failure to provide adequate on-base child care facilities results in additional cost, time, and worries for servicemembers and civilian employees. This situation has an immediate and long term negative impact on mission accomplishment throughout the organization. | https://gonzales.house.gov/services/community-project-funding-disclosures |
| Gonzalez, Anthony | OH | Camp Garfield Unpaved Assault Runway Construction | 8,700 | Ravenna, OH | Youngstown Air Force Reserve Station | 3967 King-Graves Rd. Vienna, Ohio 44473 | Camp James A. Garfield (formerly Camp Ravenna) is an Ohio Army National Guard (OANG) training site located in Portage and Trumbull counties. The installation consists of approximately 21,000 acres with various small arms weapons ranges and permanent facilities to support individual and collective training events for both weekend and annual training. Major infrastructure improvements like this are helping turn Camp Garfield into a world-class training center for the Army, National Guard and other DOD units in the Midwestern United States making it a regional training destination. Among the recent improvements there are a Fire and Movement Range, and the current construction of an Automated Record Fire Range. Camp Garfield also features Training Aids, Devices, Simulators and Simulations (TADSS), state of the art digital training equipment that allows for realistic combat training without the logistical challenges of live-fire ranges. An unpaved assault runway would allow additional seasonal scheduled use by entire units who could train for the assault certification and other maneuvers at the facility. Enhancing the long-term usability of the facility is a fundamental goal of this request. Investments in expanding the footprint and training resources at Camp Garfield will enable it to become an economic driver for the region, beyond its current impact of approximately \$30 million annually. | A requirement exists for an unpaved assault runway to support mission parameters at the Ravenna Army Arsenal, the Assault Landing Zone for training in the region. This mission has been verified to support C-130s and C-17 aircraft. A requirement exists per AFI 11-2C-130 and 11-2C-17 to comply with training requirements for air crews to be proficient at tactical landing and takeoff on unpaved assault runways. AFR 51-130 requires unpaved assault zone certification before an aircraft commander is considered to be combat ready. This construction project includes an unpaved assault runway and a minimum apron with proper drainage and a non-frost susceptible subgrade. The nearest unpaved assault zones are located near Pope AFB, NC, within the Fort Bragg Reservation. Availability of these training zones are severely limited by users of the reservation and extensive delays are encountered when scheduling these zones. The three-hour roundtrip from YARS severely limits training capabilities. This unit and other units in the region currently have a significant number of pilots who have no navigation/night vision goggle (NVG) lighting or unpaved assault runway training. Without this required unpaved assault runway, the aircraft within the region will be unable to train on an unpaved tactical landing zone which will cause pilots to be deficient by 40 percent for unpaved assault zone certification. This will result in aircraft commanders failing to be combat ready. Future mishaps during these types of operations may occur without proper training. | https://anthonygonzalez.house.gov/services/appropriations-community-funding-project-requests.htm |

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| González-Colón, Jennifer | PR | Advanced Individual Training Baracks (USARC) / Project Number 101804 | 1,500 | Fort Buchanan, PR | U.S. Army Reserve Command | 101 Bloxon St. Building 205, Suite 207 Fort Myer, VA 22211 | To provide P&D funding to construct a one-story Advanced Individual Training (AIT) Barracks on Fort Buchanan to accommodate 48 Soldiers (maximum number of Soldiers during a two week training period) for the 1-333rd REGT (MFTB) schoolhouse on Fort Buchanan. Primary facilities include 24 two-person sleeping quarters with private baths, laundry room, common/storage room, janitorial closet, mechanical/electrical room, information systems, fire protection and alarm systems, Intrusion Detection System (IDS) and Energy Monitoring Control System (EMCS) connections. | CURRENT SITUATION: There are no barracks on Fort Buchanan. The existing IHG on Fort Buchanan cannot provide rooms to accommodate 48 Soldiers for the 1-333rd REGT (MFTB) schoolhouse. There are some instances where the hotel places two Soldiers in a double room until a room clears out. The Army Corps of Engineers is the COR for the contract and the scope of work requires one student per room. In addition, the hotel only has two washing machines and two dryers for all guests, not meeting the student ratio requirement. FY 20-22 Army Program of Individual Training (ARPRINT) requirement of 500 Soldiers attending Military Occupational Skills (MOS) reclassification schools of instructions each year. However, that number fluctuates given the availability of certified instructors allowing the schoolhouse to add more courses of the MOS. Fort Buchanan is a designated Contingency Mobilization Force Generation Installation (MFGIs). MFGIs are key Installations for Army mobilization. MFGIs are designated to provide mobilization support to both known rotational demands and also contingency operations. The MFGI provides deploying units an intense training environment to complete predeployment training and a focused environment to complete demobilization activities. IMPACT IF NOT PROVIDED: The training missions for the 1-333rd REGT (MFTB) schoolhouse will continue to be negatively impacted resulting in diminished training effectiveness and efficiency as well as negative recruiting and retention. | https://gonzalez-colon.house.gov/services/appropriations-requests |
| Gottheimer, Josh | NJ | Port Murray Readiness Center Micro-Grid System | 1,707 | Warren County, NJ | Port Murray Readiness Center (NJDMAVA) | 550 Rt 57, Port Murray, NJ 07865 | The New Jersey Department of Military and Veteran's Affairs (NJDMAVA) has proposed a 114 kilowatt (kW) photovoltaic (PV) system capable of supplying up to 80 percent of the Readiness Center's average annual electric power consumption. This PV system would be elevated as a carport within an existing parking lot. The PV system will be linked to an on-site battery bank capable of storing up to 72-hours of available operational energy (kWh) providing resilient back-up power generation. Finally, the PV carport will be complemented by two Level-2 (11 kW) electric vehicle (EV) charging stations, anticipating the transition to EVs in the State and Federal fleet. This entire system comprises a micro grid, a localized energy system capable of producing, storing and distributing energy entirely on site. This micro-grid project would be an innovative first for DMAVA and represents the next step of storing electrical energy on-site for later use. This is in keeping with the Army's goal of pursuing enough renewable energy generation and battery storage capacity to self-sustain its critical missions on all its installations by 2040 [February 2022 United States Army Climate Strategy]. This resilient component will allow the facility to remain powered for the critical first 72-hours of a power outage and the Readiness Center to remain mission capable. The proposed EV chargers will expand the current network into Warren County for the first time. | Consistent with Executive Order 14008, Executive Order 14057, the Report on Effects of a Changing Climate to the Department of Defense and Department of Defense Climate Adaptation Plan, the NJ Army National Guard (ARNG) recognizes and is leaning into plans to decrease its facilities' dependence on fossil fuels and increase resiliency - the ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from disruptions [DODD 4715.21, Climate Change Adaptation and Resilience]. The effects of a changing climate are a national security issue with potential impacts to Department of Defense and NJARNG missions, operational plans, and installations. To achieve these goals, the DoD must be able to adapt current and future operations to address the impacts of a variety of threats and conditions, including those from weather and natural events. | https://gottheimer.house.gov/constituent-services/2022-community-project-funding.htm |
| Hoyer, Steny H. | MD | Aircraft Prototype Facility Phase III | 44,700 | Patuxent River, MD | Patuxent River Naval Air Station | 47123 Buse Road Building 2272 Patuxent River, MD 20670 | Funding would support the third and final phase of construction of facility to enable aircraft preparation and technology support to permit full-scale fabrication of advanced structures. Project directly supports Navy's emphasis on rapid prototyping consistent with the Navy's Maritime Advanced Capabilities Office (MACO), to capture innovation and speed solutions to the warfighters. The current infrastructure at NAS Patuxent River is insufficient to meet the Navy, and other service demand, for the testing facilities in these buildings. Moreover, special SCIF space is needed for this type of testing so additional facilities are needed to accommodate the classified nature of these programs. The third phase would be critical for allowing use of composite work on aircraft. Phase 1 funding was \$18M in 2007 and Phase 2 funding was \$42M in 2011. Funding for this project is including in the FYDP. Intent is to bring the funding for this requirement forward to FY22. The military construction project will provide important infrastructure jobs to Maryland and the entire state as well as enhance the military value of Pax River. | The project is supported by the Southern Maryland Navy Alliance, a group of community leaders in St. Mary's County, Maryland that advocate for the Pax River Naval Air Station. | https://hoyer.house.gov/FundingRequests |
| Hoyer, Steny H. | MD | Contained Burn Facility | 36,560 | Indian Head, MD | NSWC, Indian Head | NSWC, Indian Head 3767 Strauss Avenue Bldg 20 Room 103 Indian, Head, MD 20640 | Replaces open burning by constructing a Contained Burn Facility with best available control technology (BACT) air pollution controls, eliminating air and water EPA concerns and the open burning of 170,000 pounds of explosive hazardous waste each year. | The project is supported by Charles County, and the Military Alliance Committee of the Charles County Chamber of Commerce. NSWC Indian Head is located in Charles County, MD. | https://hoyer.house.gov/FundingRequests |
| Johnson, Bill | OH | Camp Garfield Unpaved Assault Runway Construction | 8,700 | Portage & Trumbull Counties, OH | Youngstown Air Force Reserve | 3976 King-Graves Road, Vienna, OH 44473 | Camp James A. Garfield (formerly Camp Ravenna) is an Ohio Army National Guard (OANG) training site located in Portage and Trumbull counties. The installation consists of approximately 21,000 acres with various small arms weapons ranges and permanent facilities to support individual and collective training events for both weekend and annual training. Major infrastructure improvements like this are helping turn Camp Garfield into a world-class training center for the Army, National Guard and other DOD units in the Midwestern United States making it a regional training destination. Among the recent improvements there are a Fire and Movement Range, and the current construction of an Automated Record Fire Range. Camp Garfield also features Training Aids, Devices, Simulators and Simulations (TADSS), state of the art digital training equipment that allows for realistic combat training without the logistical challenges of live-fire ranges. An unpaved assault runway would allow additional seasonal scheduled use by entire units who could train for the assault certification and other maneuvers at the facility. Enhancing the long-term usability of the facility long term is a fundamental goal of this request. Investments in expanding the footprint and training resources at Camp Garfield will enable it to become a massive economic driver for the region, beyond its current impact of approximately \$30 million annually. | A requirement exists for an unpaved assault runway to support mission parameters at the Ravenna Army Arsenal, the Assault Landing Zone for training in the region. This mission has been verified to support C-130s and C-17 aircraft. A requirement exists per AFI 11-2C-130 and 11-2C-17 to comply with training requirements for air crews to be proficient at tactical landing and takeoff on unpaved assault runways. AFR 51-130 requires unpaved assault zone certification before an aircraft commander is considered to be combat ready. This construction project includes an unpaved assault runway and a minimum apron with proper drainage and a non-frost susceptible subgrade. The nearest unpaved assault zones are located near Pope AFB, NC, within the Fort Bragg Reservation. Availability of these training zones are severely limited by users of the reservation and extensive delays are encountered when scheduling these zones. The three-hour roundtrip from YARS severely limits training capabilities. This unit and other units in the region currently have a significant number of pilots who have no navigation/night vision goggle (NVG) lighting or unpaved assault runway training. Without this required unpaved assault runway, the aircraft within the region will be unable to train on an unpaved tactical landing zone which will cause pilots to be deficient by 40 percent for unpaved assault zone certification. This will result in aircraft commanders failing to be combat ready. Future mishaps during these types of operations may occur without proper training. | https://billjohnson.house.gov/constituentservices/community-project-funding.htm |
| Johnson, Mike | LA | Joint Operations Center--Fort Polk, LA | 61,000 | Vernon Parish, LA | Fort Polk | 7033 Magnolia Dr Bldg 4919, Fort Polk South, LA 71459 | The current Joint Operations Center (JOC) was originally constructed in 1967 as a classroom and has been modified multiple times over the years to meet mission requirements. Today, it is positioned in the wrong place, is crowded, and cannot hold data above the SECRET level. Training is severely impacted by the current JOC, and the Army predicts systems will continue to fail with increasing maintenance and utility costs. The new JOC would include an operations center with simulation training and control, planning space classified as Open Storage SECRET, a Top Secret Sensitive Compartmented Information Facility (SCIF), and an administrative area for the JRTC Operations Group Headquarters staff. | This project is critically important for Fort Polk to continue meeting the training needs of the Army. As such, it has broad community support. Supporters include the Mayor of Leesville, Louisiana (home of Fort Polk), Fort Polk Progress (defense community advocacy group), and state-level government officials. | https://mikejohnson.house.gov/news/documentsingle.aspx?DocumentID=1091 |

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| Kahele, Kaiali'i | HI | Bachelor Enlisted Quarters, MCB Kaneohe Bay, HI | 87,930 | Kaneohe Bay, HI | NAVFAC HQ MILCON Program Manager | 3000 Marine Corps Rm 2D153A Washington DC 20350-0001 | Project provides the required enlisted personnel housing units to accommodate personnel stationed at Marine Corps Base (MCB) Hawaii. The new Bachelor Enlisted Quarters (BEQ) will provide 95 rooms in the standard 2+0 room configuration. This project also replaces aging existing quarters built in the 1970s with 3+0 room configuration. □ | The new enlisted quarters will drastically improve the quality of life for the Marines aboard MCB Hawaii and eliminate the costs to maintain facilities beyond their economic life. □ | https://kahele.house.gov/community-project-funding-requests |
| Kahele, Kaiali'i | HI | KIRTLAND AIR FORCE BASE REMOTE MAUI EXPERIMENTAL SITE SITE # 1 HAWAII, SECURE INTEGRATION SUPPORT LAB W/ LAND ACQ, PE 91211 | 89,000 | MAUI, HI | U.S. Air Force | N/A | Construct a new laboratory facility for Air Force Research Laboratory (AFRL) to include a high performance computing data center, laboratories, a remote telescope operations center, secure areas per ICD/ICS 705, administrative spaces, a security entry control point, conference center, and warehouse functions. The project includes a two-story steel-framed facility with masonry veneer, a single ply roof system and a generator per AFI 32-1062. Local materials and conventional construction techniques from this geographic region shall be used where cost effective. The lower level of the facility will have a vibration isolated slab servicing the laboratory. The new building is not located within an installation boundary, therefore additional security measures such as an access/visitor control facility and perimeter security are included. The project will also include supporting facilities such as utilities, pavements, roof and ground-mounted telescope/equipment pads, and site improvements to provide a complete and usable facility. The project includes purchasing a 10 acre land parcel. This project consolidates sea level functions in Maui onto one site. The facility should be compatible with applicable Department of Defense, Air Force, and base design standards. Facilities will be designed as permanent construction in accordance with the DoD United Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance Sustainable Building Requirements. This project will comply with DoD Antiterrorism requirements per UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings. Special costs include Construction Phase Services (CPS), Designer of Record and Government commissioning activities, structural observations, and archaeological monitoring. Facility Data Workbook (FDW) is included. The project is candidate for Comprehensive Interior Design (CID). □ | Without the new facility, annual lease costs of \$1,113,000 remain. Additionally, annual operations costs of ~\$1M for duplicate IT/networking, back-up power, manpower, cyber security, maintenance, and travel will also remain. The current situation has resulted in personnel leaving due to lack of work space. This lack of space, particularly secure space, forces personnel to share secure desks to conduct classified operations and results in mission stoppage during space occupancy transitions. Shortfalls in the site security have been identified with the most recent report coming from the Defense Threat Reduction Agency in October 2018, which justified the maximum Military Construction vulnerability scoring points. Compliance with the Department of Defense Manual 5220.22, creates an additional contractor security requirement, which drives operating costs higher than those in a government-owned building. | https://kahele.house.gov/community-project-funding-requests |
| Kim, Andy | NJ | Route 539 Overpass Project | 24,000 | Ocean County, NJ | Joint Base McGuire-Dix-Lakehurst | 5513 Texas Avenue JBMDL, NJ 08640 | Joint Base McGuire-Dix-Lakehurst is the only tri-service military base in the United States that includes active installations of the Air Force, Army, and Navy. County Route 539 divides the base from north to south and separates the Lakehurst and Fort Dix installations. Route 539 presents conflicts between military and civilian traffic, particularly in the summer months when the road is heavily used to access shore destinations. Larger military convoys have difficulties crossing Route 539 and instead divert onto State Highway 70 where additional conflicts occur. Additionally, on the east side of Route 539, the NJ National Guard maintains an Equipment Concentration Site and Consolidated Logistics & Training Facility. There are hundreds of vehicles that regularly access the facility and generate additional traffic during certain times of the year. In 2016, JBMDL commissioned a study to evaluate crossing alternatives for Route 539, and found that the safest and most efficient alternative identified is the construction of a grade separated crossing (overpass) on Route 539. The overpass project will immediately and significantly improve the safety of County Route 539, with civilian traffic able to pass over military traffic. Additionally, the overpass project would greatly benefit missions at JBMDL that have been forced to divert because of traffic on Route 539. | Letter of Support from Ocean County, NJ Board of Commissioners □ Letter of Support from New Jersey Department of Transportation □ | |
| Kirkpatrick, Ann | AZ | Base Entry Complex Morris ANGB | 12,000 | Tucson, AZ | Morris Air National Guard Base | McDowell Rd Bldg M5101, Phoenix, AZ 85008 | \$12m for the construction of a new Base Entry Complex at Morris Air National Guard Base, as listed in the FY23 USAF UFR/UPL Milcon. | The current main gate at Morris ANG Base does not meet Force Protection standards and cannot be upgraded at its current location. It also creates frequent traffic congestion on Valencia Road, a major city street, which poses traffic safety and security issues for security forces personnel, wing employees, and local residents. This project will construct a new main gate complex to meet installation entry standoff and traffic queuing requirements based on a detailed traffic study of the installation and surrounding community. The location for this new installation entrance is included as a land acquisition project in the FY23 Presidential Budget recommendation (Project #XHEA219025). □ This project, Project #XHEA109012, was originally on the FYDP for FY24 but has been moved to FY27 or FY28 due to the required land acquisition in FY23. This project has been underway for many years pending the required land acquisition, and as a result, is at 100% Design Completion and shovel ready once the land is acquired. □ □ https://www.flytucson.com/articles/all-sides-sign-letter-of-intent-for-new-air-guard-gate-at-tus/ □ https://162airguardians.org/blog/new-deal-needed-for-gate-upgrade-at-tucson-air-guard-base/ □ □ | https://kirkpatrick.house.gov/services/fy-2023-community-project-requests/ |
| Lucas, Frank D. | OK | Hangar Rehab (Building #285) | 10,100 | Altus, OK | Altus Air Force Base | 401 L Ave, B358 Altus AFB OK 73523 | Project will provide major renovation to the only Periodic/Annual Maintenance hangar on Altus AFB. The project includes a new roof, new hangar doors, new HVAC system, replaces the failed sewer system under the facility, and will update the Fire Suppression system to specifications required to be completed by FY26. | Hangar 285 is a 3 bay hangar where 100% of Periodic/Annual aircraft inspections and maintenance is performed for all KC-135, C-17, and KC-46 aircraft. This project will allow continued required operations at Altus AFB. Without the updates needed, these operations on Altus AFB aircraft will be required to be performed off-station. | https://lucas.house.gov/community-projects |
| Lucas, Frank D. | OK | Altus Air Force Base South Gate | 5,500 | Altus, OK | Altus Air Force Base | TBD | Create an AT/FP compliant Commercial Gate for Altus AFB. | The current gate configuration does not provide AT/FP compliant operations (UFC 4-022-01 Standards). The Final Denial Barrier is actually located at the Security Forces checkpoint. The current location of the checkpoint also provides direct access to the flight line if a terrorist threat was initiated. The new configuration will provide the stand-off distance required to create the 9 second delay between the checkpoint and the final denial barrier, and it will relocate traffic to an area that provides more limited access to the flight line. | |
| Lucas, Frank D. | OK | Corrosion Control Hangar | 52,000 | Altus, OK | Altus Air Force Base | 401 L Ave, B358 Altus AFB OK 73523 | Build a new 85,000sf Corrosion Control/Fuel Cell Hangar for Altus AFB maintenance operations. | Altus AFB currently has one Corrosion Control Hangar which services 18 KC-135, 12 C-17, and 8 KC-46 aircraft. This creates a significant scheduling impact, resulting in delayed corrosion control efforts. Altus AFB currently has one fully enclosed fuel cell and one tail-out fuel cell maintenance facilities. All KC-46, C-17, and major KC-135 fuel cell maintenance operations must be completed in a fully enclosed hangar. Only minor maintenance operations can be completed in the tail-out facility, creating major delays in scheduling required maintenance operations. | https://lucas.house.gov/community-projects |
| Lucas, Frank D. | OK | Tanker Apron Taxiway | 12,400 | Altus, OK | Altus Air Force Base | 401 L Ave, B358 Altus AFB OK 73523 | Project will extend the current KC-135 Tanker Ramp to provide a taxi-lane on the north side of the 60's row, providing taxi-in aircraft parking. | The current ramp configuration requires that any KC-135 aircraft parking on the 60's Row be towed and backed into the parking spots. This creates a significant loss of time in operations, and a significant manpower requirement to park each aircraft. 97 AMW/MX operations currently require a tug operator and 5 additional personnel to park a single aircraft. A taxi-in parking capability limits that requirement to 1 flag operator. | https://lucas.house.gov/community-projects |

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| Lucas, Frank D. | OK | Altus Air Force Base Main Gate | 22,000 | Altus, OK | Altus Air Force Base | 401 L Ave, B358 Altus AFB OK 73523 | Provides Anti-Terrorism/Force Protection (AT/FP) compliant capability for the Altus AFB Main Gate Entrance.□ | Current infrastructure does not meet AT/FP requirements as designed (UFC 4-022-01 Standards), nor does it provide the space needed to expand the capability to a 3 lane configuration as determined in the most recent USACE Traffic Engineering Agency study. Security Forces checkpoint location does not have the geographical separation needed between it and the Final Denial Barrier. The new facility will be relocated west of the current operations and will provide traffic slowing designs that provide the required 9 second delay in reaching the Denial Barriers. The project will provide a new 3 lane checkpoint providing decreased congestion during high traffic periods.□ | https://lucas.house.gov/community-projects |
| Luria, Elaine G. | VA | Air Force Reserve Intelligence Group Facility | 5,500 | Hampton, VA | Air Force Reserve | 216 Sweeney Blvd. Suite 218 JB Langley-Eustis, VA 23665-1991 | Construct 1,272 SM (13,687 SF) Intel Group administrative office with overhead space for three Intel Squadrons. Building is to be constructed of masonry veneer, steel frame structure, reinforced concrete foundation and floors, standing seam metal roof, HVAC, plumbing, fire protection systems, electrical, communications, site work, utilities, and other support as required to provide a complete and useable facility. Structure to be architecturally compatible with the Active Duty scheme for this zone. The facility will be compatible with applicable DoD, Air Force, and host base design standards. In addition, local materials and construction techniques shall be used where cost effective. The project will comply with UFC3-201-01 and DoD antiterrorism/force protection requirements per unified facilities criteria. Air Conditioning: 80 TONS | DD1391 Langley Intel Group UMMC | https://luria.house.gov/community-project-funding-requests |
| Raskin, Jamie | MD | USUHS Education & Research Building Additional (Planning/Design) | 15,000 | Bethesda, MD | USUHS at Naval Support Activity, Bethesda | 4301 JONES BRIDGE ROAD, BETHESDA, MARYLAND 20814 | Planning and design completion for the project to construct a new education and research laboratory facility to provide industry standard infrastructure to support the medical education and research missions of the Uniformed Services University of the Health Sciences (USU). As the premier DoD medical professional institution, USU provides the Military Health System (MHS), the Army, Navy, Air Force, Coast Guard and the Public Health Service with the highest percentage of career medical professionals and senior leaders within DoD. USU leads DoD medical research in areas such as traumatic brain injury, combat stress and casualty care, operational medicine, global health engagement, and emerging infectious diseases. There is a constant demand for increasing numbers of combat ready, joint operating medical professionals, and USU has seen significant growth and increased demand for the talent, products and services that USU uniquely generates. This project would address longstanding space and facility limitations. It would enable USU to bring all personnel (who are currently operating in multiple old buildings spread across Naval Support Activity, Bethesda (NSAB) and remotely out of expensive leased office suites off-NSAB campus) into one consolidated research and education building at NSAB. The existing campus was planned based on academic and research standards of practice which are generations out of date, and the last major construction investment was over 40 years ago when the original campus was built in the mid-1970's. The project consolidates fragmented university instruction, research, and administrative functions into the main campus, and right-sizes departmental services to improve instructional efficiencies for students and faculty, to promote multi-disciplinary, collaborative and specialized military medical education and research. It would also further USUHS's mission, increasing Service and interdepartmental collaboration and enhancing mission effectiveness. The \$15 million requested would all for the completion of planning and design for the new facility (overall project cost is estimated as \$445 million). | See 1391 attached. Increased demands to the education and research mission have resulted in fragmented departmental operations across both remote leased space and buildings of opportunity. Existing operational inefficiencies create increase costs and extend staff travel distances between the campus and remote facilities, impeding command and control capability over resources and personnel. This project would also reduce leasing costs for over 150,000 SF of leased space located in commercial space in Maryland and allows for demolition of approximately 50,000 SF of inadequate structures across NSA Bethesda, which have been repurposed to support fragmented University mission components. The project consolidates fragmented university instruction, research, and administrative functions into the main campus, and right-sizes departmental services to improve instructional efficiencies for students and faculty, to promote multi-disciplinary, collaborative and specialized military medical education and research. It would also further USUHS's mission, increasing Service and interdepartmental collaboration and enhancing mission effectiveness. | https://raskin.house.gov/community-project-funding-requests-submitted-in-prior-years |
| Rogers, Mike | AL | High-Energy Density and High-Power Density Li-Ion Battery Magazines (HEBM) in Defense Applications | 12,000 | Lee County, AL | Auburn University | Auburn University, Auburn, AL36849 | This proposed project is designed to prepare mid-form cells in LCO and NMC chemistries, and then to utilize the IntraMicron pilot line to fabricate 50V modules and 1,000V battery magazines for testing, evaluation, and qualification by the NSWC at Philadelphia and Crane. Auburn will provide dynamic thermal modeling and spearhead efforts on vent gas neutralization/containment and light-weighting materials initiatives. The collective effort should result in the creation of the next stage HEBM for defense applications. The Navy is well aware of the promising advancements using mid-form LFP cells and strongly supports this proposed project. | Auburn University is incredibly supportive of this request, listing it as their top priority this year. | https://mikerozers.house.gov/services/earmark-requests.htm |
| Rogers, Mike | AL | General Purpose Warehouse ANAD | 24,200 | Calhoun County, AL | Anniston Army Depot | 7 Frankford Ave Anniston, AL 36201 | This would replace a general purpose warehouse at the Anniston Army Depot. | The Anniston Army Depot is one of the top employers in a 5 county radius from Calhoun County. The Calhoun County Chamber and the Depot are supportive of any investments. | https://mikerozers.house.gov/services/earmark-requests.htm |
| Ruppersberger, C. A. Dutch | MD | Test Maintenance Fabrication Facility | 76,000 | Aberdeen Proving Ground, MD | Aberdeen Proving Ground | N/A The phone number and recipient email address are not accurate. | Construct a Test Maintenance Fabrication Facility. The current test fabrication facility was built in 1918 and no longer meets the requirements of modern tactical vehicles and equipment. | \$76,000,000 is requested in the Army's Military Construction Future Year Defense Plan (FYDP) in FY '24 to support the construction of a Test Maintenance Fabrication Facility in Aberdeen Proving Ground, Maryland. The current test fabrication facility was built in 1918 and no longer meets the requirements of modern tactical vehicles and equipment. | https://ruppersberger.house.gov/how-can-dutch-help-you/community-project-funding-requests |
| Rutherford, John H. | FL | Blount Island, FL- Communications Infrastructure Modernization Design | 5,949 | Jacksonville, FL | MCSF Blount Island | 9620 Dave Rawls Boulevard, Jacksonville, Florida 32226 | Replaces and upgrades existing underground data, FRCS, and voice communication infrastructure throughout the installation, including duct banks and manholes, copper and fiber optic cabling, and grounding systems. Provides 2-story concrete-framed Communications Center with reinforced concrete masonry unit walls, standing seam metal roof, and pile foundations. Includes SIPR workspace, backup generator, and UPS. Demolishes temporary trailer TR002. | Communications personnel and equipment are located within minimum Explosive Safety Quantity Distance (ESQD) arc for ammunition operations, a major command and control vulnerability. Frequency of ship ammunition operations cannot be increased due to personnel within ESQD arc. | https://rutherford.house.gov/services/community-funding-requests |
| Rutherford, John H. | FL | F-35 Munitions Maintenance & Inspection Facility- Design | 530 | Jacksonville, FL | FL Air National Guard | Jacksonville Air National Guard Base 11915 Beach Blvd, Unit 114. Jacksonville, FL 32246 | Construct new Conventional Munitions Maintenance and Inspection (M&I) shop for the newly assigned F-35 mission. The new conventional maintenance building will include reinforced concrete foundation and floor slab and concrete walls with maintenance bays. Extra footing work (Piles) will be required. The M&I will meet DDESB Definitive Drawings requirements. Provide for utility connections and lightning protection and electrical grounding. Construct access pavement, security fencing and site security lighting. | The installation currently supports the F-15 mission and is scheduled to convert to F-35 aircraft. With that bed down comes the additional mission of Air-to-Ground operations and continuation of Air-to-Air operations. The 125th FW does not currently have munition storage or operating facilities on base that meet the new mission requirements. Additionally, the current facility used for munitions maintenance operates under a mixed compatibility waiver due to the limited space. The new facility is required to support training of pilots and maintenance personal accompanying the arrival of F-35A aircraft starting in Fiscal Year 2024. | https://rutherford.house.gov/services/community-funding-requests |
| Rutherford, John H. | FL | F-35 Construct Munitions Storage Area Admin & Pad Jacksonville International Airport- Design | 770 | Jacksonville, FL | FL Air National Guard | Jacksonville Air National Guard Base 11915 Beach Blvd, Unit 114. Jacksonville, FL 32246 | The request is for 100% of design costs. Construct new Admin w/parking; aircraft support equipment shop/storage facility and aircraft support equipment yard for the newly assigned F-35 mission. The admin facility, aircraft support equipment shop/storage facility and aircraft support equipment yard will all be collocated under one building. Provide for utility connection and lightning protection and electrical grounding. Construct additional access pavement and security fencing and supplemental security lighting and access control gates. | The installation currently supports the F-15 mission and is scheduled to convert to F-35 aircraft. With that bed down comes the additional mission of Air-to-Ground operations and continuation of Air-to-Air operations. This mission increase will result in inadequate office space and inert maintenance space available to support the addition of Air-to-Ground operations. The 125th FW does not currently have munition storage or operating facilities on base that meet the new mission requirements. The new facility is required to support training of pilots and maintenance personal accompanying the arrival of F-35A aircraft starting in Fiscal Year 2024. Additionally, these facilities are collocated with a potential explosives site which is a violation of Department of Defense Explosive Safety Standards. | https://rutherford.house.gov/services/community-funding-requests |
| Sewell, Terri A. | AL | F-35 Weapons Load Crew Training Facility | 6,800 | Montgomery, AL | Montgomery Regional Airport (ANG) Base | 5187 Selma Hwy, Montgomery, AL 36108 | The installation does not possess a dedicated facility for weapons load crew training. Presently training is performed within a corrosion control or other borrowed aircraft maintenance facility. This arrangement impacts both the ability to train weapons load crews and certify their continued readiness but also the ability to maintain aircraft and ultimately generate sorties. Finally, facility that is primarily used for load crew training cannot physically accommodate an F-35 aircraft, and the facility cannot be economically altered to accommodate the aircraft due to its siting. | This project is supported by the community, including the Montgomery Chamber of Commerce and local elected officials. | https://sewell.house.gov/re-sources/nda-community-projects |
| Sewell, Terri A. | AL | Commercial Vehicle Inspection Gate at Maxwell Air Force Base | 15,000 | Montgomery, AL | Maxwell Air Force Base | 42 ABW/ CC 50 South LeMay Plaza Maxwell AFB, AL 36112-6334 | Construct a commercial vehicle inspection and entry control facility area. This project will provide perimeter protection and security of Air Force personnel and assets, prevent unauthorized access, maximize traffic flow, and impart an immediate impression of professionalism and commitment to facilities excellence at Maxwell Air Force Base. | This project is supported by the community, including the Montgomery Chamber of Commerce and local elected officials. | https://sewell.house.gov/re-sources/nda-community-projects |

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| Sherrill, Mikie | NJ | Picatinny Arsenal Precision Munitions Test Tower | 3,600 | Morris County, NJ | Picatinny Arsenal | Picatinny Arsenal, 213 NJ-15, Wharton, NJ, 07885 | 215' high Precision Munition Test Tower at Picatinny Arsenal (Building 3144) was opened in 2002 and has been a key instrument in the development of smart munitions for the Army. Located on a 200' high ridge at Picatinny it functions as the equivalent of a 400' tower. With five work platforms located every forty feet, this tower has been indispensable for technology advanced munitions developed over the past two decades. The tower is used to simulate the range, height, and angle of attack at which weapon sensors operate. Sensors or systems to be evaluated can be mounted on any of the tower platforms or laboratory elevators, or positioned inside the enclosed equipment platform. The roof of the enclosed equipment platform is used to mount sophisticated meteorological instrumentation, instrumentation grade sensors, and sensors to be evaluated. | While still functional, the tower desperately needs upgrades after 20 years to keep it relevant as well as to address important health and safety issues. Because of non-operating elevators, engineers currently must hand-carry equipment and munitions weighing over 50 pounds up the external staircase to various levels of the tower. | https://sherrill.house.gov/fy-2022-appropriations-community-project-funding-disclosures |
| Stansbury, Melanie A. | NM | Kirtland Microgrid Demonstration Project | 5,000 | Albuquerque, NM | Kirtland Air Force Base (Emera Technologies) | Building 24200 □ Kirtland Air Force Base □ Albuquerque, NM 87123 | Additional funding to enable the expansion of an existing microgrid demonstration project on the grounds of Kirtland Air Force Base, to increase installation energy and cyber resilience. Microgrid demonstration projects, like the one located on the grounds of Kirtland Air Force Base, enhance overall Air Force and Department of Defense readiness by increasing mission assurance while lowering costs to the Department and increasing cyber security resilience. | This project will enable the expansion of an existing microgrid demonstration project on the grounds of Kirtland Air Force Base to increase installation energy and cyber resilience. | https://stansbury.house.gov/community-project-funding-requests |
| Stansbury, Melanie A. | NM | JNWC Headquarters | 47,000 | Albuquerque, NM | Kirtland Air Force Base | 2050 Wyoming Blvd. SE, B20684, Kirtland AFB, NM 87117 | Due to the JNWC mission to enable Positioning, Navigation, and Timing superiority for United States Military and coalition partners, facility requires ICD-705 secure space and Special Access Program Facility accreditation in order to manage a portfolio of high priority programs Additionally, dedicated space is required to handle all contract acquisitions. To accommodate the receipt of additional mission sets, the Joint Navigation Warfare Center will require an increase of 123 personnel, equipment, and facilities. No current permanent secure space is available that meets security needs and can house the appropriate number of total personnel. | There are no workarounds in lieu of constructing a new facility or addition to house these secure mission requirements. Without this project, Positioning, Navigation, and Timing assets and missions will be delayed or halted and thus be a detriment to United State Military and coalition forces worldwide. | https://stansbury.house.gov/community-project-funding-requests |
| Stansbury, Melanie A. | NM | Space Rapid Capabilities Office (SPRCO) Headquarters Fac. | 44,000 | Albuquerque, NM | Kirtland Air Force Base | 2050 Wyoming Blvd. SE, B20684, Kirtland AFB, NM 87117 | This funding would be to construct a secure facility for the Space Rapid Capabilities Office at Kirtland. Per the 2018 National Defense Authorization Act, the Office of Responsive Space reorganized into the Space Rapid Capabilities Office. Due to the mission to rapidly develop and field classified space capabilities, the facility requires Special Access Program Facility and ICD-705 credentials in order to manage a portfolio of high priority acquisition programs. No current secure space is available that meets security needs and can house the appropriate number of personnel. | There are no workarounds in lieu of constructing a new facility or addition to house these secure offices. Without this project, space assets and missions will be delayed or halted in future acquisition and thus be a detriment to US forces worldwide. | https://stansbury.house.gov/community-project-funding-requests |
| Stefanik, Elise M. | NY | Automated Record Fire Plus (ARF+) Range; Project Number: 99913 | 3,600 | Fort Drum, NY | Fort Drum | T4849 Jones Street, Fort Drum, NY 13602 | This request is for funding to initiate the Planning and Design (P&D) phase for a standard Automated Record Fire Plus (ARF+) range for training advanced rifle marksmanship and target engagement techniques. This range is used for training and day/night qualification requirements with rifles and carbines, and specifically the Next Generation Squad Weapon (NGSW) which has a much greater range and lethality. This range is used to train and test Soldiers on the skills necessary to identify, engage, and hit infantry targets. □ □ Milcon Planning and Design funding for this project as a Design-Bid-Build construction contract procurement is roughly estimated at 15% of the Programmed Amount. □ | This project is a priority because it is critical to the readiness of one of the Army's 10th Mountain Division, the the Army's most-deployed division since 9/11. Ensuring that this unit is capable of maintaining its readiness is critical to U.S. national security. | https://stefanik.house.gov/community-project-funding-requests |
| Turner, Michael R. | OH | Wright-Patterson Child Development Center / School Age Center | 29,000 | Dayton, OH | Wright-Patterson Air Force Base | 5135 Pearson Rd. Bldg 10, Rm 206 Wright-Patterson AFB, OH | Child Development Center | The funding would be used for construction of a new Child Development Center which includes child-learning space, play space, sleeping space, administrative support area, kitchen area, active shooter/safe rooms, storm shelter, exterior storage facility, playground and supporting infrastructure. | |
| Van Drew, Jefferson | NJ | Aviation Training Academy of the Future | 15,000 | Egg Harbor Township, NJ | Atlantic County Economic Alliance | 600 Aviation Research Blvd., Suite 120 □ Egg Harbor Township, NJ 08234 | The U.S. Air Force 305th Maintenance Group of Joint Base McGuire-Dix-Lakehurst in New Jersey, Embry Riddle Aeronautical University, and the Atlantic County Economic Alliance are developing the Aviation Training Academy of the Future (ATAF). A Memorandum of Understanding to develop the ATAF was signed by the three parties on December 13, 2021. The Air Force will be the primary driver of the ATAF pedagogy, curriculum requirements, technical capabilities, and credentialing but the academy will serve civilian student constituencies as well. The partnership to create the ATAF will offer learning opportunities for different career fields within the aviation industry, ranging from aerial port, supply chain management, cargo, and unmanned aerial systems. Airmen assigned to the 305th Maintenance Group will have access to the academy as a method of learning to elevate their knowledge and expertise within their respective career fields and beyond. Through development of the ATAF, the Air Force and civilian industry counterparts will share best practices in in how they train, equip, maintain, and operate aircraft. The ATAF will also train students to safely maintain current and emerging technologies in the aviation and aerospace sciences while developing multi-capable Airmen for agile combat deployment. This is a new request. The funding will be used for design and construction activity on the project, which will be located on the grounds of Atlantic City International Airport in Egg Harbor Township, New Jersey. Airmen who attend ATAF will be able to partner with the FAA and the Atlantic City airport to expedite innovation to help modernize Air Force Maintenance, Repair, and Overhaul systems through research, development, and evaluation. A key part of this partnership will be use and development of a new method and style of teaching, leveraging technologies like virtual reality and augmented reality to teach maintainers faster and with more information. Another aim of the ATAF initiative will be to provide military aviation maintenance workers with FAA certifications and licenses to utilize within their military careers or when transitioning into the civilian aviation industry. | This project is supported by USAF 305th Maintenance Group of Joint Base McGuire-Dix-Lakehurst, Embry Riddle Aeronautical University, Atlantic County, the Atlantic County Economic Alliance, and aviation R&D businesses operating in Atlantic County. □ This project will provide tremendous value to USAF through a civil-military approach that will modernize training procedures and produce novel maintenance techniques and technologies. □ | https://vandrew.house.gov/congressman-van-drew-ndaa-requests (pending) |
| Waltz, Michael | FL | F-35A Developmental Test 2: Bay Mxs Hangar- Eglin AFB | 4,100 | Eglin AFB, FL | US Air Force | 501 DeLeon Street, Suite 2005 (Bldg 696) □ Eglin Air Force Base, FL 32542 | Facility will support the specialized maintenance requirements of the F-35A Developmental Testing program. Facility will be approximately 3,900 square meters and includes two aircraft bays and office support spaces. Project will also include approximately 18,000 square meters of new airfield apron. | The F-35A has been designated as a threshold platform for nearly all future United States Air □ Force advanced weapons acquisition programs, that requires this highly specialized facilitybased □ mission capability enabling successful 5th/6th generation weapons testing. This is an □ additive mission to Eglin requiring additional facility for aircraft and supporting □ personnel. All aircraft hangars at Eglin Air Force Base are at maximum capacity and projected □ to remain at maximum capacity indefinitely. The 33 Fighter Wing (Air Education and Training □ Command) has no capacity to support the F-35A test fleet. Therefore, this new facility is □ required to support the F-35A Aircraft Maintenance Unit. First aircraft arrival is FY26. | https://waltz.house.gov/ |

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| Waltz, Michael | FL | F-35A ADAL Developmental Test- Eglin AFB | 2,500 | Eglin AFB, FL | US Air Force | 501 DeLeon Street, Suite 2005 (Bldg 696) □ Eglin Air Force Base, FL 32542 □ | Facility will support F-35A Test Operations and Aircrew Flight Equipment workspaces to Building 64 to support Developmental Testing for 4 x F-35A aircraft and associated weapons. Building 64 addition will be approximately 2,300 square meters. | Building 64 currently houses personnel of the 40th Flight Test Squadron, Air Force Materiel Command, the Operational Flight Program Combined Test Force Squadron, and the 85th Test and Evaluation Squadron, Air Combat Command. Current mission execution and working office space is insufficient for the addition of the expected increase in personnel. Further, the classification level of equipment and activities for the F-35A weapons systems requires secure working areas that do not exist in the current building 64. Displacement of current workforce to build sufficient secure working spaces would significantly disrupt ongoing F-15C/D/E and F-16C/D Developmental Test/Operational Test efforts conducted by current personnel and significantly impact support to ongoing weapons development effort. Housing in temporary facilities is not feasible given the security requirements for current activities as well as projected F-35A activities. If the above additional workspace is not provided, the 96th Test Wing will be unable to base these aircraft and associated personnel, thereby eliminating (or severely reducing) the available support for the expected F-35A weapons related test and evaluation workload during post-System Development and Demonstration. Further, complete renovation of building 64 thereby displacing all or most of the existing F-15, F-16 and Weapons System Program Office activities currently conducted from the facility, would impart significant delays to ongoing aircraft and weapons systems development and sustainment across the Combat Air Force's 4th generation fighter force. The proposed secure facility addition and expansion of the current aircrew flight equipment workspace provides the required workspace while preserving ongoing missions. A 2-bay hangar facility is to be constructed on the flight line area adjacent to the current building 64. The Developmental Test operations personnel facility requires this proximity to preserve synergy between maintenance suitability test efforts, shared logistics networks (the F-35A Autonomic Logistics Information System), and projected F-35A mission execution, relocation of the F-35A Developmental Test personnel away from the current building | |
| Waltz, Michael | FL | F-35A Developmental Test 2-Bay Test Hangar- Eglin AFB | 39,000 | Eglin AFB, FL | US Air Force | 501 De Leon Street, Suite 100 □ Eglin AFB, FL 32542 □ □ | Facility will support F-35A Developmental test, including weapons development, integration, fielding and sustainment, requires a multi-level secure environment to test peculiar ground operations, pre and post-flight mission activities, and support. Facility will be approximately 3,600 square meters and includes two aircraft bays and office support spaces. Project will also include approximately 8,000 square meters of new airfield apron. | The F-35A has been designated as a threshold platform for nearly all future United States Air □ Force advanced weapons acquisition programs, which requires this highly specialized facility based □ mission capability enabling successful 5th/6th generation weapons testing. The F-35A is □ entering a continuous capability development and delivery cycle where the weapons-related test □ requirements currently exceeds existing Service capabilities and capacity. This is an additive □ mission to Eglin Air Force Base and no other facilities currently exist. First aircraft arrival □ is scheduled for early FY26. | |
| Waltz, Michael | FL | SOCOM SOF Joint MISO Web-Operations Facility, MacDill AFB | 87,300 | Tampa, MacDill AFB, FL | United States Special Operations Command | 7701 Tampa Point Blvd MacDill Air Force Base, Florida 33621 | This project is officially titled SOF Joint Military Information Support Operations (MISO) Web-Operations Facility (project number NVZR19-3701). The purpose of the MISO Facility at MacDill AFB, FL is to construct a secure, multi-story operations and intelligence facility. This multi-level security facility will support DoD-wide cyber coordination functions and personnel, allowing for rapid integration of intelligence and operations, as well as providing administrative offices, open office areas, collaboration spaces, classified and unclassified conference rooms, an auditorium, and support spaces. | USOCOM does not have the physical space to accommodate recent and anticipated personnel growth for the newly assigned missions and information technology (IT) requirements. Facility requirements now dictate an additional 127,273 square feet to support new personnel and functions. The current USOCOM headquarters building is inadequate to support any more additional demands for IT capability and power requirements. Interruptions to missions have occurred and the potential for additional interruptions increases as the main facility continues to age. There are no existing facilities available in the vicinity of SOCOM to transfer or consolidate these functions and services. Where practical, certain personnel and functions were displaced to disconnected buildings in temporary facilities outside the SOCOM campus. | https://waltz.house.gov/ |
| Waltz, Michael | FL | SOCOM SOF Operations Integration Facility- MacDill AFB | 50,000 | MacDill AFB, Tampa, FL | United States Special Operations Command | 7701 Tampa Point Blvd MacDill Air Force Base, Florida 33621 | The proposed SOF Operations Integration Facility would allow the consolidation of both Government and contractor personnel into one secure facility constructed to ICD/ICS705 and TEMPEST requirements. The complex includes a 55.5K square foot structure that is planned to be two stories and generally comprised of private and open office areas, conference rooms, secure spaces, storage areas, restrooms, communications (LAN) rooms, and mechanical/electrical support spaces. | The divisions supporting sensitive missions are operating out of four separate locations inside HQ USOCOM. These separate facilities are undersized and poorly configured for operational mission support. Operational areas and available space are inadequate accommodating only 60% of authorized personnel. Communications infrastructure for this mission is extensive and beyond typical SOCOM requirements. The unit will remain severely hindered in conducting planning, operations, and training needed to optimize the capability to meet urgent national security missions. Organizational effectiveness, operational efficiency, and unit morale will risk degradation by continued use of substandard, severely undersized, and poorly configured facilities. | https://waltz.house.gov/ |
| Waltz, Michael | FL | Patrick SFB Consolidated Communications Facility | 97,000 | Patrick SFB, Brevard County, FL | Patrick Space Force Base | Patrick SFB & Cape Canaveral SFS, Florida | Currently programmed for \$97M in FY24; project includes a 77k sq ft Space Communications facility with a Joint Operations Center and Command Post, including a Sensitive Compartmented Information Facility. Project construction is designed to withstand Cat-5 hurricane winds. Project plan also includes construction of a 25k sq ft CE Maintenance Facility. Planning Charterre approval was issued 21 May '21; 35% design is complete and currently working 65% design with ECD July/Aug '22. Value engineering study is complete. | Currently facility 533 is main communications hub at PSFB and critical to the space launch mission. It is a critical link between Cape Canaveral Space Force Station (CCSFS) Range Communications Facility and other Eastern Range sites which support launches, telemetry, Global Positioning Satellites and radars. Facility also supports Air Force Technical Applications Center (AFTAC) mission and connections to world-wide sites, 920th Rescue Wing (920 RQW) mission of combat search and rescue, as well as Department of State (DoS), Defense Information Systems Agency (DISA), Space Systems Command (SSC), Critical network operations and control center switch provides services to PSFB, CCSFS, Ascension Auxiliary Airfield (AAAF) and remainder of Eastern Range. It is point of presence for all communications assets such as internet connections, fire walls, data server banks, cyber security, and classified data networks. Electrical service cannot support future mission needs. Cable vault floods knocking out mission critical communications. Host wing has to divert funds for pumps and hoses to drain vaults. Cable plant system that services base has no excess capacity. Existing cable will be pulled out to install new high capacity cable. Existing facility is over 50 years old, located in an airfield clear zone and incapable of further expansion, system modernization and mission growth, nor does it not meet current Antiterrorism & Force Protection criteria. Close proximity of other facilities preempts clear, perimeter standoff zone. 45 Space Communications Squadron (45 SCS) is spread out across multiple facilities on base. Proposed project will consolidate communications functions on PSFB. SLD 45 has been impacted by multiple Hurricanes recently without an adequate Hurricane ride out shelter. The new CAT-5 rated facility will protect critical communications infrastructure while also providing SLD 45 a ride out shelter with Emergency Operations Center and Command Post capability. | https://waltz.house.gov/ |
| Waltz, Michael | FL | F-35 Munitions Maintenance & Inspection Facility- Design | 530 | Jacksonville, FL | FL Air National Guard | St. Francis Barracks, 82 Marine Street Street, St. Augustine, Florida 32088 | Construct new Conventional Munitions Maintenance and Inspection (M&I) shop for the newly assigned F-35 mission. The new conventional maintenance building will include reinforced concrete foundation and floor slab and concrete walls with maintenance bays. Extra footing work (Piles) will be required. The M&I will meet DDESB Definitive Drawings requirements. Provide for utility connections and lightning protection and electrical grounding. Construct access pavement, security fencing and site security lighting. | The installation currently supports the F-15 mission and is scheduled to convert to F-35 aircraft. With that bed down comes the additional mission of Air-to-Ground operations and continuation of Air-to-Air operations. The 125th FW does not currently have munition storage or operating facilities on base that meet the new mission requirements. Additionally, the current facility used for munitions maintenance operates under a mixed compatibility waiver due to the limited space. The new facility is required to support training of pilots and maintenance personal accompanying the arrival of F-35A aircraft starting in Fiscal Year 2024. | https://waltz.house.gov/ |
| Waltz, Michael | FL | F-35 Construct Munitions Storage Area Admin & Pad Jacksonville International Airport- Design | 770 | Jacksonville, FL | FL Air National Guard | St. Francis Barracks, 82 Marine Street Street, St. Augustine, Florida 32088 | The request is for 100% of design costs. Construct new Admin w/parking; aircraft support equipment shop/storage facility and aircraft support equipment yard for the newly assigned F-35 mission. The admin facility, aircraft support equipment shop/storage facility and aircraft support equipment yard will all be collocated under one building. Provide for utility connection and lightning protection and electrical grounding. Construct additional access pavement and security fencing and supplemental security lighting and access control gates. | The installation currently supports the F-15 mission and is scheduled to convert to F-35 aircraft. With that bed down comes the additional mission of Air-to-Ground operations and continuation of Air-to-Air operations. This mission increase will result in inadequate office space and inert maintenance space available to support the addition of Air-to-Ground operations. The 125th FW does not currently have munition storage or operating facilities on base that meet the new mission requirements. The new facility is required to support training of pilots and maintenance personal accompanying the arrival of F-35A aircraft starting in Fiscal Year 2024. Additionally, these facilities are collocated with a potential explosives site which is a violation of Department of Defense Explosive Safety Standards. | https://waltz.house.gov/ |

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| Waltz, Michael | FL | Camp Blanding, FL- Automated Multipurpose Machine Gun (MPMG) Range | 8,500 | Clay County (Camp Blanding), FL | FL Army National Guard | 82 Marine St., St. Augustine, FL 32084 | Construct a standard designed Multipurpose Machine Gun (MPMG) range. Range includes automated target systems (ATS) varying controlled and scored by computer in the control tower. This facility will be designed to meet Industrial Standards as well as all local, State, Federal building codes and as per 42 U.S.C 4154. Construction will include Multipurpose Machine Gun Range firing points, control tower, operation storage building, classroom facility, latrine aerated, bleacher enclosure, covered mess shelter, ammo breakdown building, targets, sustainability/ energy measures, parking, signs, flags/ safety barriers, fencing, all utility services, information systems, security lighting, lightning protection, site improvements, anti-terrorism/force protection, and storm drainage. Facilities will be designed to a minimum life of 50 years in accordance with DoD's Unified Facilities Code (UFC 1-200-02) including energy efficiencies, building envelop and integrated building systems performance as per standards through improved building envelope and integrated building systems performance as per ASE (IE&E) Sustainable design and Development Policy updated 2017. Access for individuals with disabilities will be provided. Anti-terrorism Measures are to be included in accordance with the DOD Minimum Anti-terrorism for building standards will be provided. This project will comply with the Army 1 SQFT for 1 SQFT disposal policy through the disposal of 3,130 SQFT. This project will include all supporting facilities as per block #9 page 1, on this document. | There are no Multi-Purpose Machine Gun Range within reasonable travel distance limit specified in NGB/FORSCOM Reg 350-2 that meet IBC training requirements. If this project is not provided, it will be impossible for assigned units to acquire and maintain the proficiency required for combat units. This proficiency can only result from realistic training under simulated combat training. Traveling to an alternate facility will result in increased cost and loss of valuable collective training time normally reserved for annual training. Overall readiness will be degraded regardless of the alternative used. | https://waltz.house.gov/ |
| Waltz, Michael | FL | Scout Recce Gunnery Complex- Camp Blanding, FL | 16,200 | Clay County (Camp Blanding), FL | FL Army National Guard | 82 Marine St., St. Augustine, FL 32084 | This range project, previously approved for FY14, has experienced several delays. The planning charrette was conducted in 2008; originally placed on FYDP for 2014, slide to FY17, then FY22 and now is being considered for another move on the FYDP to FY26. This critical project enhances training and throughput capability for HMMWV based units with multiple weapons densities by providing a range complex at Camp Blanding to qualify single gun truck crews up to 4 truck crews at the same time and place. Currently, all FLNG type units have to travel outside the state of FL to conduct this level of training. | If unable to maintain on the FY23 schedule, the FLNG will experience a significant degradation in our readiness for HMMWV based units by increasing drive time out of state to similar ranges in MS and GA; reduction in range and training time; and shifting training funds to host states training facilities. | |
| Waltz, Michael | FL | Blount Island, FL- Communications Infrastructure Modernization Design | 5,949 | Jacksonville, FL | MCSF Blount Island | 9620 Dave Rawls Blvd., Jacksonville, FL 32226. | Replaces and upgrades existing underground data, FRCS, and voice communication infrastructure throughout the installation, including duct banks and manholes, copper and fiber optic cabling, and grounding systems. Provides 2-story concrete-framed Communications Center with reinforced concrete masonry unit walls, standing seam metal roof, and pile foundations. Includes SIPR workspace, backup generator, and UPS. Demolishes temporary trailer TR002. | Communications personnel and equipment are located within minimum Explosive Safety Quantity Distance (ESQD) arc for ammunition operations, a major command and control vulnerability. Frequency of ship ammunition operations cannot be increased due to personnel within ESQD arc. | https://waltz.house.gov/ |
| Wasserman Schultz, Debbie | FL | U.S. Army Battlefield Exercise and Combat Related Traumatic Brain and Spinal Injury Research | 1,700 | Miami, FL | The Miami Project to Cure Paralysis - U of Miami | 1095 NW 14th Terrace, Miami, FL 33136 | 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. 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. Funding will also allow our scientists the ability to conduct groundbreaking new rehabilitation services and clinical trials to develop new therapies and treatments. | 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 | https://wassermanschultz.house.gov/biography/financial-disclosures.htm |
| Wasserman Schultz, Debbie | FL | FIU/SOUTHCOM Security Research Hub / Enhanced Domain Awareness (EDA) Initiative | 1,300 | Miami, FL | Florida International University | 11200 SW 8 Street, Miami, FL 33199 | 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: 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. | 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: 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. | |
| Wasserman Schultz, Debbie | FL | Additive Manufacturing and Ultra-High Performance Concrete | 10,000 | Miami, FL | Florida International University | 11200 SW 8th Street, Miami, FL 33199 | 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. 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. | 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. 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. 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. | https://wassermanschultz.house.gov/biography/financial-disclosures.htm |

FY23 NDAA COMMUNITY PROJECT FUNDING REQUESTS AS SUBMITTED TO THE HOUSE COMMITTEE ON ARMED SERVICES

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| Wasserman Schultz, Debbie | FL | Future Nano and Micro-Fabrication - Advanced Materials Engineering Research Institute | 6,800 | Miami, FL | Florida International University | 11200 SW 8 Street, Miami, FL 33199 | 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: <ul style="list-style-type: none"> •5G/6G devices, nano and micro satellites, and manufacturing automation <input type="checkbox"/> •Metal 3D printed circuits for antenna, wearable electronics, and biomedical devices <input type="checkbox"/> •Compact, high performance, real-time millimeter wave camera system for airport and public area security <input type="checkbox"/> •Non-fossil fuel energy materials and devices <input type="checkbox"/> •Quantum computing materials <input type="checkbox"/> | This project will help move innovations out of the university and into the marketplace and will ensure that America remains the technologically preeminent nation. | |
| Wasserman Schultz, Debbie | FL | Persistent Maritime Surveillance | 15,000 | Boca Raton, FL | Florida Atlantic University | 777 Glades Rd. ADM 286, Boca Raton, FL 33431 | 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. | 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. <input type="checkbox"/> | https://wassermanschultz.house.gov/biography/financial-disclosures.htm |
| Wasserman Schultz, Debbie | FL | GHz-THz Antenna Systems for Massive Data Transmissions in Real-Time | 10,000 | Miami, FL | Florida International University | 11200 SW 8 Street, Miami, FL 33199 | 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. <input type="checkbox"/> <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> | 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. | https://wassermanschultz.house.gov/biography/financial-disclosures.htm |
| Welch, Peter | VT | Smith Goldberg Readiness Center | 3,197 | Colchester, VT | Vermont Army National Guard | 789 VT National Guard Rd <input type="checkbox"/> Bldg 5, Camp Johnson <input type="checkbox"/> Colchester, VT 05446 | The proposal would construct a 24,594 SF National Guard Readiness Center Addition/Alteration and a 4,945 SF Vehicle Storage Shed that supports the training, administrative, and logistical requirements for the Vermont National Guard. This facility will be constructed on Federal Land. <input type="checkbox"/> <p>The current Winooski Readiness Center has 14,105 SF of the required 44,333 SF. This project involves renovating and building an addition to a repurposed facility built in 1973 on a 4.8-acre site in Colchester that is contiguous to VTARNG's Ethan Allen Air Force Base site. The facility will be transferred from the Army Reserves in FY22. USAR has the proper 1354 for the NGB as well as pre approval from DASA Approval to transfer the facility. <input type="checkbox"/></p> <p>The USAR building is 15,732 SF and requirements support a 29,539 addition to accommodate additional office space, assembly hall, unheated and heated storage, locker room space and vehicle storage shed. The building has high visibility for public relations and recruiting purposes. The State of Vermont has initiated conceptual design (35%).<input type="checkbox"/></p> <p>This project is designed to meet training and operational requirements in support of Company C (Med), 186th Brigade Support Battalion (BSB), WV53CO, Authorized strength of 83 Soldiers. CO C (Med) directly supports over 1,789 Vermont Soldiers assigned to the 86th Infantry Brigade Combat Team (IBCT). CO C (Med) provides mission essential medical services and is instrumental in managing and maintaining medical readiness maximizing the combat effectiveness of the 86th Infantry Brigade Combat Team (IBCT). The Winooski Readiness Center has less than 32% of the authorized space required to support the unit mission.<input type="checkbox"/></p> | This project is critical to the state of Vermont because of the current situation of the Winooski Armory. The Armory was built in 1955, is located on a 1.5-acre site in a residential neighborhood and cannot be expanded. The Winooski Armory is planned for demolition and would require \$2-3M in Polychlorinated biphenyl (PCB) mitigation if retained. The Winooski Armory infrastructure is in poor condition, lacks classroom space, office space, supply and vault space, adequate latrine and locker room space, military and POV parking. <input type="checkbox"/> <p>If this project is not provided the unit will suffer negative impacts to training, operations, unit, brigade and state level medical readiness. The Winooski Readiness Center lacks adequate space and has no potential for expansion. Retaining the Winooski Readiness Center will have negative impacts to the 1,789 Soldiers of the 86th IBCT (MTN) requiring the State Medical Command to fully support all 2,588 Soldiers in the VTARNG. Renovating the former Army Reserve Center Building is the most economical solution to improve operations and readiness.<input type="checkbox"/></p> | https://welch.house.gov/community-project-funding-requests |
| Welch, Peter | VT | Intercept, Collect, Analyze, and Disrupt (ICAD) Application | 2,300 | Northfield, VT | Norwich University Applied Research Institutes | PO Box 30 <input type="checkbox"/> Northfield, VT 05663 | NUARI has been developing the intellectual property underpinnings and technical framework for an application to intercept messaging and information, collect/organize the information, analyze content for semantics, impact, and frames, and combat/disrupt the information disorder campaign. This proposal is to build upon this research to develop an ICAD platform. NUARI has collected significant data flows leading up to the recent invasion of Ukraine by Russia and since create a data pool for exploitation. NUARI can employ machine learning models to analyze the content, intent, and impact of Russian strategic framing disinformation campaigns. <input type="checkbox"/> <input type="checkbox"/> <p>Over the years NUARI has worked with a number of organizations on this content and will engage with the Department of Homeland Security through the Northeast Region, Vermont National Guard (Both Army and Air), USCYBERCOM, and USACYBERCOM.</p> | Attached. Summary: Information disorder has become one of the most acute threats to national security as well as to global health. In particular, disinformation campaigns from authoritarian regimes have gravely complicated and exacerbated good governance and social stability across the globe. Its implications on great power competition and national security are profound. Despite the mounting damage of disinformation to national security and democratic rule, and increasing policy attention, few have shown efficacy in reducing its impact. The goal of this research is to build data-driven analytic models that explain the anatomy of disinformation in the competition space. NAURI hopes to operationalize this research for practitioners and policymakers of information warfare in order for our nation to compete more effectively in the information environment. | https://welch.house.gov/community-project-funding-requests |

FY23 NDA COMMUNITY PROJECT FUNDING REQUESTS AS SUBMITTED TO THE HOUSE COMMITTEE ON ARMED SERVICES

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| Welch, Peter | VT | Aeromedical Research Center | 2,350 | Northfield and Berlin, Washington County, VT | Norwich University Applied Research Institutes | 158 Harmon Drive, NU Box 49 Northfield, Vermont 05663 | <p>The proposal is for the establishment of an airborne research center located at the Berlin Regional Airport in Vermont, focused on studying the human aspects of cognition, situational awareness, and perception of critical information under the stresses of flight.</p> <p>The research will be used to reduce aviation accidents and improve human machine performance in civil and military aviation. As passenger-carrying air and space craft seek to fly higher, faster, and farther, basic research of human physiological responses to these extreme environments will enable the discovery of new technologies which will protect and improve pilot performance and passengers, leading to greater outcomes and higher safety margins.</p> <p>The requested funding will support the creation and near-term sustainability of the Norwich University Aerospace Research Center- an interdisciplinary research, development, test & evaluation center to support basic & applied research, as well as DT&E for public/private product development.</p> <p>A private center of this type does not yet exist anywhere in the world. While a few other universities have airborne laboratories, none focus on the physiological aspects of flight. This constitutes a gap in the scientific exploration of aeromedical physiology and human performance as it relates to commercial air travel and spaceflight.</p> <p>Airborne research is presently an underfunded requirement, and the creation of this activity will be sustained over time with research requirements across multiple Air Force and Space programs.</p> <p>Funding Breakdown: Equipment purchase \$500,000 Personnel \$750,000 Ops & Maintenance & Fit-up, \$1,100,000 TOTAL \$2,350,000</p> <p>Discussions with AFRL and USAF ACA demonstrate ample follow on funding once the laboratory is up and running to sustain and grow this activity at Knapp Airport.</p> | <p>The Knapp Airport located in Berlin, VT has excess capacity and is underused. This project will bring greater utilization to the central Vermont airport and greater education and research opportunities to all Vermont higher education institutions. The Knapp Airport supports this use. □</p> <p>□ Human factors are the leading cause of fatalities in both military and civil aviation. Research is required for better understanding of human cognition and physiology in an authentic airborne environment. This research will support the development of technologies to mitigate these factors. The airborne environment is impossible to simulate and research is difficult to initiate due to extremely limited resources owned wholly by USG and military entities. Significant opportunity exists for scientific and technological research, development, test and evaluation of novel technologies to make air travel safer and improve the performance of pilots.□</p> | https://welch.house.gov/community-project-funding-requests |
| Wilson, Frederica S. | FL | Florida Memorial University Department of Natural Sciences STEM Equipment | 600 | Miami Gardens, FL | Florida Memorial University | 15800 NW 42nd Ave, Miami Gardens, Florida 33054 | <p>All STEM (Health and Natural Sciences (HNS) students should have access to a robust science, technology, engineering, and mathematics (STEM) education at Florida Memorial University (FMU). This is a goal in which equitable educational opportunities must be provided for all students to succeed as they matriculate through FMU, into STEM careers, and become a global citizen in their professional and private life as they contribute to society in a positive and meaningful manner. To further the goal of high-quality STEM education for all, FMU's HNS seeks financial aid in an effort to train students in the use of modern research-based methods and use of technologies that shall make them competitive upon graduation or well-trained to enter successfully STEM graduate disciplines. Therefore, the purpose of this prospectus is to inform granting agencies of the need for funds to support innovative, equity-focused STEM education strategies via obtaining instrumentation to improve hands-on research, the use of modern equipment, and project-based learning. In order to help FMU increase the competitiveness of its STEM graduates in either the workforce or in STEM graduate disciplines, the funding agencies can help support our efforts to improve STEM (practical) instruction and research, which would increase student outcomes in STEM fields, mainly by increasing persistence, retention, and graduation rates, as well as increased entry as qualified workers into the diverse and ever-growing STEM workforce. □</p> <p>Florida Memorial University requests \$400,000 in order to support students and faculty to attain quality training through the procurement of up-to-date equipment and instrumentation, as well as providing basic equipment to run undergraduate laboratories and help students develop critical thinking skills through early exposure to hands-on research.</p> | <p>The purpose of this request is to provide equipment and instrumentation, as well as personnel to train students in STEM-based laboratories and hands-on research, which would translate to an increase in persistence, retention, and graduation of students who would then either enter the workforce or enter graduate/professional programs in STEM disciplines. FMU's HNS has forged and will continue to forge relationships with the surrounding community. The relationships can be strengthened if a significant amount of time and money is provided to create a culture of STEM education in the surrounding communities.</p> | https://wilson.house.gov/services/fy23-ndaa-community-project-funding-requests |
| Wilson, Frederica S. | FL | HBCU Training for the Future of Aerospace | 1,000 | Miami Gardens, FL | Florida Memorial University | 15800 NW 42nd Ave, Miami Gardens, Florida 33054 | <p>The goal is to help fill the shortages in "pilots and air traffic controllers" in the nation and around the world, while maximizing diversity initiatives in line with administration priorities. The local communities will improve because better opportunities will be provided while safety is improved in aerospace. The objectives for "Training for the Future of Aerospace program" include: (1) bachelor degrees in Aeronautical Science - Flight Education, and Air Traffic Control, and (2) FAA Flight Certificates up to Certified Flight Instructor CFI (3) Preparation for FAA on job training (OJT) start their careers in military or civilian spaces.</p> | <p>The U.S. is currently dealing with shortages of both pilots and air traffic controllers, the latter due to early retirements and retention issues brought on by the stresses of the job. Additionally, the aviation industry is grappling with methods to improve inclusion and diversity. 92.3% of aircraft pilots and flight engineers in the U.S. are Caucasian, according to Data USA, and 93% are male. As the aviation industry strives to address a skills gap and the overall population becomes increasingly diverse, cultivating diversity and a culture of inclusion is likely to remain a key tenant for successful organizations and the military in the coming years.</p> | https://wilson.house.gov/services/fy23-ndaa-community-project-funding-requests |
| Wilson, Frederica S. | FL | Florida Memorial Avionics Smart Scholars | 2,000 | Miami Gardens, FL | Florida Memorial University | 15800 NW 42nd Ave, Miami Gardens, Florida 33054 | <p>This authorization will provide Florida Memorial University with continued funding for their "Florida Memorial Avionics Smart Scholars" program authorized in the FY22 NDA. The focus of these scholarships will be on Aerospace Cybersecurity in the commitment to Aviation safety. These Smart Scholars should be provided mentorship at the Air Force Technical Applications Center at Patrick AFB.</p> | <p>Technology and digitization bring many advantages to aviation, but at the same time, create challenges in managing cyber vulnerabilities in this complex environment. The airline industry is an attractive target for cyber threat actors with a multitude of motivations, ranging from stealing value in data or money to causing disruptions and harm. It is necessary to continue building a pipeline of security experts to manage the ever-changing landscape of those who would do us harm.</p> | https://wilson.house.gov/services/fy23-ndaa-community-project-funding-requests |