THE STATE UNIVERSITY SYSTEM OF FLORIDA

WASHINGTON E-UPDATE

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Budget and Appropriations Update – In mid-April Senate budget committee chair Michael B Enzi (R-WY) announced spending allocations for the government's discretionary programs. That announcement opened the way for the Senate to begin debating the 12 spending bills, starting with Energy and Water appropriations bill. A few days earlier, Senate Majority Leader Mitch McConnell (R-KY) said he would devote 12 weeks of Senate floor time to appropriations in hopes of completing as many as possible before Congress breaks for the November elections.

In a break from tradition, the Senate has been on a path to passing spending bills before the House, where Republican are split on how much to allocate to both defense and nondefense discretionary programs.

The bipartisan budget agreement reached last October set a "topline" spending limit of $1.07 trillion for the upcoming fiscal year, including $551 billion for defense and $518.5 billion for nondefense programs. Earlier this year, however, House conservatives called on their colleagues to disregard the deal and come up with another spending plan that included more budget cuts. House leaders, including Speaker Paul Ryan (R-WI), warned that reneging on the original deal was a sure-fire way to block any chance of passing appropriations bills.

Unless the House finds a way out of the current stalemate, House rules say that no spending bills can be debated until after May 15.

The Senate's two-week long effort to pass its first Fiscal 2017 spending measure derailed April 27 when Democrats procedurally blocked further proceedings on the Energy and Water bill. Senator Tom Cotton (R-AR) was moving to offer an amendment attempting to stop the Administration's upcoming purchase of nuclear heavy water from Iran.

That action may also have stalled a plan to pass an emergency supplemental bill on Zika virus response efforts that was being negotiated in the Senate. The Administration had asked for $1.9 billion but Senate Republican appropriators were planning to attach a $1.1 billion bill to an early spending bill nearing completion, possibly Energy and Water. While those negotiations were in play, Sen. Bill Nelson, (D-FL) filed his own bill that would provide the full $1.9 billion requested by the President.

If the stalemate is resolved, it appears that the next spending bills to be taken up on the Senate floor will be the Transportation-HUD, Military Construction-VA, and Commerce-Justice-Science measures which have all been approved by the full committee.

In the House, the Appropriations Committee has given it approval to four FY 2017 spending bills, and subcommittee markups on others are planned in May. The four approved are Military Construction-VA; Energy and Water; Agriculture; and Legislative Branch.

Given the shortened election-year schedule, it seems very likely that Congress will not complete its work on appropriations bills before Election Day, forcing a lame-duck session in November and December.

Senate approves FAA bill with university drone use provisions

The Senate overwhelmingly passed its version of a two-year, $33 billion FAA reauthorization April 19 by a vote of 95-3 and sent it to the House.

As ranking member of the Senate Commerce Committee, Sen. Bill Nelson helped to manage the bill through committee and on the Senate floor. With his support provisions were added in committee to address the use of the drones by universities as part of a larger new section on regulation of drones in the bill.

The current FAA authorization is set to expire July 15. The House Transportation Committee has approved a companion bill but it has not moved to the floor, largely because of provisions that would spin off air traffic control in to a new corporation.

The Senate bill directs the FAA to establish rules for the use of drones operated by universities, including faculty, students and staff, with research needs taken into account. The provision says the rules should establish a procedure to provide for "streamlined, risk-based operational approval" for drone use in academia. The FAA must establish the rules within 270 days of the bill's enactment.

The bill also calls on the FAA to establish a Collegiate Training Initiative program for drone use and to enter into agreements with universities who are preparing students for careers involving unmanned aircraft systems. The FAA will establish standards for the entry of institutions into the program and for their continued participation in the program.To read the complete bill, HR 636, click here.

USAID making $30 million available for extramural Zika research

The U.S. Agency for International Development has launched a $30 million effort on Zika virus -- "Combating Zika and Future Threats: A Grand Challenge for Development." The agency is calling on "innovators around the world to submit groundbreaking ideas to enhance our ability to respond to the current Zika outbreak and generate cutting-edge technologies and approaches that better prepare the world to address the disease threats of tomorrow."

The initiative will invest in groundbreaking innovations and interventions that “enhance our ability to prevent, detect, and respond in both the short and long-term by sourcing innovations that mitigate the spread and impact of Zika virus and improve our ability to combat future infectious disease outbreaks.” The Challenge specifically calls for solutions that improve and enhance vector control, personal and household protection, surveillance, diagnostics, and community engagement. These are intended to complement USAID's broader efforts focused on mosquito control, educational campaigns about prevention, and maternal and child health interventions.

"To get ahead of infectious diseases like Zika, we need to move quickly to find and scale new tools and transformative solutions," said Gayle Smith, USAID Administrator. "This Grand Challenge will help unlock the scientific and technological advancements needed to accelerate our impact in the fight against Zika virus, and ensure we are better prepared for future public health threats."

USAID will begin taking applications on April 29, with Zika-focused submissions due by 5 p.m. on May 20, 2016 and all other submissions due by 5 p.m. on June 17, 2016. For more information on the Combating Zika and Future Threats Grand Challenge, visit https://www.usaid.gov/grandchallenges/zika

Higher ed community opposing bill to increase SBIR/STTR set aside

An effort underway in the House to reauthorize the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs is running into opposition from the higher education and science community.

In late March, the House Small Business Committee approved the Commercializing on Small Business Innovation Act of 2016 (H.R. 4783). The bill would incrementally increase the percentage of their budgets that federal science agencies such as the National Institutes of Health, National Science Foundation, Department of Energy and Agriculture Department must allocate to the SBIR program.

Under HR 4783, the SBIR set-aside would increase from the current rate of 3.2% (in FY 2017) to 4.5% in FY 2022. The STTR set-aside would grow from 0.45% to 0.60% during that same 5-year period. HR 4783 received a joint referral of jurisdiction to the House Science, Space, and Technology Committee which has not yet acted on the bill. Current law does not expire until September 2017.

The programs were last reauthorized in 2011 through an amendment to the National Defense Authorization Act. That bill phased in increases in the agency set-aside from 1 percent to 3.2 percent over the past six years.

The major institutions representing universities -- FASEB, AAU, APLU, AAMC, and AIRI – are planning to send a joint letter to the House Science Committee expressing concerns that increasing the SBIR and STTR set-asides will adversely impact funding for university-based research by redirecting money from other parts of scientific agency budgets to support grants to small businesses.

The organizations will state their strong support the SBIR and STTR programs, but cite the lack of evidence that they are underfunded relative to other types of research.

A draft letter circulated by the groups and planned for release in May states that the budget for the SBIR and STTR programs at NIH increased by 29 percent (from $680 million to $877 million) between FY 2011 and FY 2016, while the agency's total budget grew by only 4.5 percent. Since FY 2011, the SBIR program at NSF has expanded by five percent a year, or 30 percent overall–almost three times as much as the rest of the agency during the same time.

DOD research and innovation budget covered at Senate hearing

The proposed Fiscal 2017 budget for innovation and research by the Defense Department was reviewed in a hearing April 20 by the Senate Defense Appropriations Subcommittee.

During the hearing, high-ranking DOD officials spoke about the need to keep up with technological developments and foster innovation in order to maintain national security. Stephen Welby, assistant secretary of defense for research and engineering, warned the subcommittee that the country's technological superiority is being threatened by fast-paced innovative nations abroad.

"We are at a pivotal moment in history," Welby said, "where the advanced technical capability and capacity that the nation has relied upon to provide us with unmatched advantage on any battlefield is now being challenged by the military technology investments being made by increasingly capable and increasingly assertive powers."

Welby told the subcommittee that the budget request contains $12.5 billion for science and technology, including $2.1 billion for basic research. The amount requested, Welby said, is necessary to sustain the department's capacity to fund critical military technology that keeps the country safe.

"Our defense laboratory enterprise touches the broadest range of emerging concepts through our deep engagement with academia, industry and our international partners to keep the DOD agile and responsive in the face of new and emerging threats," he added.

Frank Kendall, the undersecretary of defense for acquisition, stated that it is a priority for the Defense Department to ensure that the U.S. continues to have the most innovative and developed technology in the 21st century. However, Kendall added, this will strictly depend on the research and development investments requested in the president's budget proposal.

According to Kendall, the proposed budget will allow the U.S to maintain a long-term competitive-edge as it will allow the fostering of innovation, technical superiority and military acquisitions.

“This budget increases the use of prototyping, demonstrations and experimentation to help the department more rapidly mature technology and assess the impact these innovative technologies can have on the future force,” he pointed out.

DARPA

Finally, Arati Prabhakar, Director of the Defense Advanced Research Projects Agency (DARPA), told the subcommittee that DARPA is committed to work closely with industry and academia in order to make sure the DOD budget is invested in programs that maintain the country’s competitive technological edge and safety.

“Within that ecosystem DARPA has one particular role,” Prabhakar said, “and that is to make the pivotal early investments in breakthrough technologies for national security.”

In prepared joint testimony, the senior officials highlighted key areas of development writing that, “Emerging tools based on breakthroughs in artificial intelligence, autonomy, computer science, advanced electronics, communications systems, sensors, and other fields will enable new operational concepts. These concepts will support faster and more effective decision making, enable improved coordination of operations across warfighting domains, support the use of collaborative teams of manned and unmanned systems, and integrate electronic warfare and cyber operations.”

Key areas for DARPA were also highlighted:

- Cognitive Electronic Warfare
- Unmanned Surface Vessel for Long-Duration Missions
- Space Robotics and Modular Systems at Geosynchronous Orbit
- Research on Fresh Approaches for Computer Security
- Cyber Grand Challenge
- Communicating with Computers
- Accurate, Specific Disease Diagnostics on the Spot
- Revolutionizing Prosthetics
- New Tools to Fight Ebola
- Neural Engineering Systems Design

To read the prepared testimony or watch a video recording of this hearing, click here.

Big changes ahead for makeup of Florida Congressional delegation

Even if all incumbents win their reelection Florida’s Congressional delegation will undergo significant change next year. The makeover will come through retirements, the

race to replace Senator Marco Rubio and the effects of the state's redistricting effort, with at least nine current House seats being vacated.

Eight term Congressman Ander Crenshaw and freshman Member Gwen Graham were the latest this month to signal their intention not to run for reelection.

Rep. Crenshaw is a senior member of the House Defense Appropriations Subcommittee and he chairs the Financial Services and General Government Appropriations Subcommittee. One of his signature bills was last year's successful effort to pass the Achieving a Better Life Experience (ABLE) Act which lets disabled Americans save in tax-free savings accounts. Crenshaw has led the Crohn's and Colitis Caucus and the Nepal Caucus.

Freshman Rep. Graham, a member of the Agriculture and Armed Services Committees, announced plans to explore a gubernatorial campaign for the 2018 election.

Reps. Jeff Miller and Rich Nugent previously announced their retirement while Rep. Daniel Webster plans to compete in the redrawn district now represented by Nugent. Reps. David Jolly, Ron DeSantis, Alan Grayson and Patrick Murphy are all leaving their Congressional seats to vie for Florida's open Senate position.

Initiatives focus on student loan debt and tuition-free community college

The Administration announced new programs and actions this month dealing with student loan debt and tuition-free community college.

The Treasury Department, Consumer Financial Protection Bureau and the Education Department will begin coordinating efforts to "modernize" the way student loans appear on credit reports, to better outline borrower rights and loan servicing practices, and establishing StudentLoans.gov/Repay to help students find the best repayment options. For more information see the announcement.

The White House also announced that early this summer the Administration will launch "an H-1B funded grant competition by the Labor Department to create and expand innovative regional and sector partnerships between community colleges and other training providers, employers, and the public workforce system to create more dynamic, tuition-free education and training programs for in-demand middle and high-skilled jobs across the country. Built off the model of shared responsibility for educating this nation's students and workforce, America's Promise Grants continue to build on the Administration's investments to strengthen education, training, and employer engagement."

For details see: FACT SHEET: White House Launches New $100 Million Competition to Expand Tuition-Free Community College Programs that Connect Americans to In-Demand Jobs

Approaches to student debt and Pell grants under consideration as next HEA Act is contemplated

As Congress seeks a path forward on reauthorizing the Higher Education Act, the question of how to handle student debt has become one of a number of critical issues. While any definitive action on an overall HEA bill this year seems very unlikely, the legislation is certain to be one of the first targets in the new Congress next year.

The student debt discussion is somewhat partisan in the Senate, with HELP Committee Chairman Lamar Alexander (R-TN) on a number of occasions comparing student debt to a car loan, and Ranking Member Murray regularly touting student debt as a substantial life burden on young people. Student debt has been a notable issue on the Presidential campaign trail as well, with both Senator Bernie Sanders and Secretary of State Hilary Clinton using college affordability as a major campaign platform item.

Legislation related to student debt reform has taken a number of different forms. Some bills seek to reform the Pell Grant program, either by adding additional available funding or restoring grant availability to the summer term. These include:

- Pathways to an Affordable Education Act, HR 4386, introduced by Rep. Derek Kilmer, (D-WA)
- Pell Grant Restoration Act, HR 3512, introduced by Rep. Bobby Scott (D-VA)
- Flexible Pell Grant for 21st Century Students Act, HR 3180, introduced by Rep. Carlos Curbelo (R-FL) and Elise Stefanik (R-NY), and
- Year-Round Pell Grant Restoration Act, S 1062, introduced by Senator Mazie Hirono (D-HI).

Senator Lamar Alexander has also introduced a bill, S 108, which would eliminate subsidized Stafford student loans and redirect the $30 billion from that program to Pell Grants.

Support for increasing Pell Grant availability has long been a bipartisan issue, and the sheer number of bills currently in Congress seeking to reinstate summer Pell Grants seem to suggest that this issue will receive serious considered in reauthorization efforts.

Debt issues are approached in another way as well with legislation seeking to amend the Internal Revenue Code to make changes to tax benefits related to loan repayment or to modify the Code and change how student loan payments affect gross income for tax purposes. These bills include the:

- Student Loan Tax Debt Relief Act, HR 2429, introduced by Rep. Jim McDermott (D-WA)
- Student Debt Repayment Fairness Act, HR 3170, introduced by Rep. Richard Nugent (R-FL), and

- Income-Based Repayment Debt Forgiveness Act, S 1947, introduced by Senator Jeff Merkley (D-OR)

Alternatively, some bills include a consumer protection framework, including the Student Loan Debt Protection Act, HR 3634, introduced by Rep. Frederica Wilson (D-FL), which would add a number of protections for students, including making student loans dischargeable in bankruptcy and prohibiting the collection of student loans through wage garnishment or certain types of offsets.

Senator Tammy Baldwin (D-WI) was joined by a number of Senate Democrats in introducing the "In the Red Act," S 2677, a large-scale effort to address college affordability. This legislation would allow students to refinance student loans at a lower rate, specifically allowing students to refinance to the rate for the 2013-2014 school year. It would also allow certain individuals in good standing to refinance private loans into the Federal program, and would create a "point of order" for Senate legislative procedure against cutting Federal Pell Grants.

With a compressed schedule this year because of the elections, education committees in the House and Senate are likely to continue studying their options in anticipation of moving legislation beginning next year. Of course, if control of the Senate changes hands back to the Democrats, the timeline may be delayed again and the approach to be taken in the Senate would differ from that currently contemplated by Republicans in control now.

NCI opens platform to submit ideas about research for Cancer Moonshot initiative

The National Cancer Institute has launched an online platform to enable the research community and the public to submit ideas on the National Cancer Moonshot efforts. Submissions will be considered by the Blue Ribbon Panel of scientific experts and patient advocates as they develop the scientific direction at NCI for the initiative.

Ideas for advancing progress against cancer may be submitted at CancerResearchIdeas.cancer.gov.

The Blue Ribbon Panel, whose members were announced on April 4 and which held its first meeting on April 11, will serve as a working group of the presidentially appointed National Cancer Advisory Board.

The panel of cancer experts, including scientists, leaders, and patient advocates was appointed to guide NCI on the scientific direction and objectives for the new "Cancer Moonshot Initiative" inspired by Vice President Joe Biden.

The panel will work to expedite development of cancer vaccines, highly sensitive approaches to early detection, advances in immunotherapy and combination therapies, improved data sharing, and ground-breaking approaches to the treatment of pediatric cancers.

One of the first actions of the panel was to discuss the establishment of several proposed working groups to focus on specific topic areas. Ideas, which may range from cancer prevention to advancing understanding of the origins of cancer to reducing cancer health disparities, may be submitted in the following areas:

- Cancer clinical trials
- Data sharing
- Dissemination and population sciences
- Immunotherapy, combination therapy, and immunoprevention
- Pediatric cancer
- Tumor evolution and progression
- Other exceptional opportunities

The ideas that are submitted will be discussed and considered by the proposed working groups and the Blue Ribbon Panel as they deliberate about cancer research priorities and opportunities over the next few months. The panel will report its findings to the Cancer Advisory Board later this summer.

“The goal of the Moonshot Initiative is to accelerate progress in the fight against cancer by swiftly advancing knowledge from cutting-edge basic research to new prevention and treatment strategies for patients,” said NCI Acting Director Douglas Lowy, M.D. “The community involvement that the initiative garners will allow us to consider novel, creative ideas that might not otherwise have come to NCI’s attention.”

To sign up for updates on the online platform and other aspects of the National Cancer Moonshot Initiative, please visit the initiative’s main website.

Highlights of competitive grant opportunities at federal agencies

Agency: U.S. Department of Commerce
Department of Commerce

Program: FY2016 Regional Innovation Strategies Program

Description: EDA is committed to fostering connected, innovation-centric economic sectors which support the conversion of research into products and services, businesses, and ultimately jobs through entrepreneurship. Regional innovation strategies are a keystone of the Secretary of Commerce’s commitment to building globally competitive regions. As part

of this strategy, funding is available for capacity-building programs that provide proof-of-concept and commercialization assistance to innovators and entrepreneurs and for operational support for organizations that provide essential early-stage funding to startups. Under the RIS Program, EDA is soliciting applications for two separate competitions: the 2016 i6 Challenge, and the Seed Fund Support (SFS) Grant competition.

Due Date: 6/24/2016

Funding: Total Program Funding: $15,000,000 Award Ceiling: $500,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282919

Agency: U.S. Department of Defense
Air Force -- Research Lab

Program: Air Force Research Laboratory, Materials & Manufacturing Directorate, Functional Materials and Applications (AFRL/RXA) Two-Step Open BAA

Description: Air Force Research Laboratory, Materials & Manufacturing Directorate is soliciting White Papers and potentially technical and cost proposals under this two-step Broad Agency Announcement that is open for a period of five years. Functional Materials technologies that are of interest to the Air Force range from materials and scientific discovery through technology development and transition, and support the needs of the Functional Materials and Applications mission. Descriptors of Materials and Manufacturing Directorate technology interests are presented in the context of functional materials core technical competencies and applications.

Due Date: 4/19/2021

Funding: Total Program Funding: $42,500,000 Award Ceiling: $5,000,000 Award Floor: $100,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283134

Agency: U.S. Department of Defense
Air Force Office of Scientific Research

Program: Multidisciplinary Research Program of the University Research Initiative

Description: The MURI program supports basic research in science and engineering at U.S. institutions of higher education that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD. As defined in the DoD Financial Management Regulation: Basic research is systematic study directed

toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs. The topics of interest for the DoD are listed in the application package.

Due Date: 11/15/2016

Funding: Total Program Funding: $60,000,000 Award Ceiling: $7,500,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283045

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Peer Reviewed Cancer Translational Team Science Award

Description: Applications to the Fiscal Year 2016 Peer Reviewed Cancer Research Program (PRCRP) are being solicited for the Defense Health Agency, Research, Development, and Acquisition (DHA RDA) Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA). The managing agent for this Program Announcement/Funding Opportunity is the Congressionally Directed Medical Research Programs (CDMRP). The PRCRP was initiated in 2009 to provide funding for research of exceptional scientific merit and is managed by the CDMRP. Appropriations for the PRCRP from FY09 through FY15 totaled $149.8 million (M). The FY16 appropriation is $50M. The goal of the PRCRP is to improve quality of life by decreasing the impact of cancer on active duty Service members, their families, and the American public. The PRCRP is charged by Congress with the mission to investigate cancer risks and knowledge gaps that may be relevant to active duty Service members, their families, and other military beneficiaries.

Due Date: 9/13/2016

Funding: Total Program Funding: $16,000,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283062

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Peer Reviewed Cancer Career Development Award

Description: The PRCRP Career Development Award supports independent, early-career investigators to conduct impactful research with the mentorship of

an experienced cancer researcher (i.e., the Designated Mentor) as an opportunity to obtain the funding, guidance, and experience necessary for productive, independent careers at the forefront of cancer research. This award supports impactful research projects with an emphasis on discovery. Under this award mechanism, the early-career investigator is considered the Principal Investigator (PI), and the application should focus on the PI's research and career development. It should be clear that the proposed research is intellectually designed by the PI and not a product of the Designated Mentor. Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated. Key elements of the award are as follows: • Principal Investigator: The PI must be an independent, early-career researcher or physician-scientist within 10 years after completion of his/her terminal degree (excluding time spent in residency or on family medical leave). Time spent as a postdoctoral fellow is not excluded. The application must articulate the potential impact the proposed work will have on cancer research and/or patient care. Impactful research will, if successful, accelerate the movement of promising ideas in cancer research into clinical applications.

Due Date: 9/13/2016

Funding: Total Program Funding: $9,790,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283063

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Peer Reviewed Cancer Idea Award with Special Focus

Description: The Idea Award with Special Focus supports innovative, untested, high-risk/potentially high-reward concepts, theories, paradigms, and/or methods in cancer research that are relevant to Service members, their families, Veterans, and other military beneficiaries. The "Special Focus" of this award mechanism is on exposures, conditions, or circumstances that are unique to the military, disproportionately represented in a military beneficiary population, or may affect mission readiness. Cancers or circumstances with cancer risk that may affect military families are of special importance to the care and well-being of the military for total mission readiness. The advancement of knowledge in cancer research, patient care, and/or treatment options in the military health system is critical to active duty Service members, their families, Veterans, other military beneficiaries, and the American public. The proposed research approach should be innovative. Innovative research may introduce a new paradigm, challenge existing paradigms, look at existing problems from new perspectives, or exhibit other highly creative qualities. The outcome

of research supported by this award should be the generation of robust preliminary data that can be used as a foundation for future research projects to understand the mechanisms of initiation or progression of cancer, the quality of life during and following cancer treatment, etc. This award is not intended to support ongoing research in the applicant's laboratory; therefore, inclusion of preliminary data other than serendipitous findings or in very small amounts is not consistent with the exploratory nature of this award.

Due Date: 9/13/2016

Funding: Total Program Funding: $13,440,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283060

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DOD Multiple Sclerosis Pilot Clinical Trial Award

Description: The PCTA supports early-phase, proof-of-principle clinical trials to investigate hypothesis-based, innovative interventions that have the potential to result in a profound impact on the management of MS symptoms. While therapeutic approaches proposed for testing through the PCTA must represent novel, hypothesis-based approaches for treating MS symptoms, they may include therapies already in clinical use, or undergoing clinical testing for other diseases, provided that their proposed use for MS would lead to a major advancement for treating one of the disease symptoms. It is anticipated that outcomes from studies funded by this award will provide scientific rationale for subsequent development of larger, efficacy-based clinical trials of interventions that will transform MS patient care. Funding from the PCTA must support a clinical trial and cannot be used for preclinical research or correlative studies. This mechanism supports pilot clinical trials encompassing Phase 0, Phase I, or Phase II for drugs or drug combinations, Class II or III for devices, or other types of trials that conduct early clinical testing of innovative approaches for MS symptoms. A clinical trial is defined as a prospective accrual of patients where an intervention (e.g., device, drug, biologic, surgical procedure, rehabilitative modality, behavioral intervention, or other) is tested on a human subject for a measurable outcome with respect to exploratory information, safety, effectiveness, and/or efficacy.

Due Date: 8/29/2016

Funding: Total Program Funding: $1,900,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283071

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Multiple Sclerosis Research Program

Description: The MSRP IIRA mechanism was first offered in FY15 for research topics addressing MS Symptoms. In FY15, 15 MSRP IIRA applications were received, and 2 were recommended for funding. This year, the IIRA mechanism is offered for research specifically addressing Obstacles to Remyelination in MS. The IIRA supports highly rigorous, high-impact research projects that have the potential to make an important contribution to MS research and/or patient care. Research projects may focus on any phase of research, excluding clinical trials. The rationale for a research idea may be derived from laboratory discovery, clinical trial results, population-based studies, a clinician's firsthand knowledge of patients, or anecdotal data. Applications must include preliminary and/or published data that are relevant to MS and the proposed research project. Note for projects involving animal models of MS: Applicants should be prudent in the choice of animal model(s) for their proposed research. While studies of remyelination failure have relied on various animal models involving induced demyelination or specific genetic alterations, it is not always clear that the underlying mechanisms in these models are relevant to the obstacles to remyelination present in MS in humans. Applicants must justify the relevance of their proposed animal model(s) to remyelination in human MS.

Due Date: 8/29/2016

Funding: Total Program Funding: $2,900,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283053

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Lung Cancer Research Program Career Development Award

Description: The Career Development Award supports early-career, independent investigators to conduct impactful research under the mentorship of an experienced lung cancer researcher as an opportunity to obtain the funding, mentoring, and experience necessary for productive, independent careers at the forefront of lung cancer research. This award is intended to support impactful research projects with an emphasis on discovery. Submissions from and partnerships with investigators at military treatment facilities, military labs, and Department of Veterans Affairs (VA) medical centers and research laboratories are strongly encouraged. Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated. Key elements

of this award are as follows: • Principal Investigator (PI): PIs must be research- or physician-scientists at an early stage of their independent research careers. PIs must be within 5 years of their first faculty appointment (or equivalent), and exhibit a strong desire to pursue a career in lung cancer research.

Due Date: 9/14/2016

Funding: Total Program Funding: $1,200,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282905

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Lung Cancer Research Program Investigator-Initiated Translational Research Award

Description: The Investigator-Initiated Translational Research Award (IITRA) supports translational research that will develop promising ideas in lung cancer into clinical applications. Translational research may be defined as an integration of basic science and clinical observations. Observations that drive a research idea may originate from a laboratory discovery, population-based studies, or a clinician's firsthand knowledge of patient care. The ultimate goal of translational research is to move a concept or observation forward into clinical application. However, Principal Investigators (PIs) should not view translational research as a one-way continuum from bench to bedside. The research plan must involve a reciprocal flow of ideas and information between basic and clinical science. This mechanism is intended to fund a broad range of translational studies, including, but not limited to, the following: • Studies advancing/translating in vitro and/or animal studies to applications with human samples/cohorts. • Late-stage preclinical work leading to/preparing for a clinical trial, e.g., Investigational New Drug (IND) application submission. • Correlative studies that are associated with an ongoing or completed clinical trial and projects that develop endpoints for clinical trials. Preliminary data to support the feasibility of the research hypotheses and research approaches are required; however, these data do not necessarily need to be derived from studies of lung cancer.

Due Date: 9/14/2016

Funding: Total Program Funding: $2,560,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282897

Agency: U.S. Department of Health and Human Services
Administration for Community Living

Program: Field Initiated Projects Program: Minority-Serving Institution (MSI) - Research

Description: The purpose of the Field Initiated (FI) Projects program is to develop methods, procedures, and rehabilitation technology that maximize the full inclusion and integration into society, employment, independent living, family support, and economic and social self-sufficiency of individuals with disabilities, especially individuals with the most severe disabilities. Another purpose of the FI Projects program is to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended. In carrying out a research activity under a FI Projects research grant, a grantee must identify one or more hypotheses or research questions and, based on the hypotheses or research questions identified, perform an intensive, systematic study directed toward producing (1) new scientific knowledge, or (2) better understanding of the subject, problem studied, or body of knowledge.

Due Date: 6/14/2016

Funding: Total Program Funding: $200,000 Award Ceiling: $200,000 Award Floor: $200,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283039

Agency: U.S. Department of Health and Human Services
Administration for Community Living

Program: Advanced Rehabilitation Research Training (ARRT) Program - Minority-Serving Institution ARRT

Description: The purpose of the ARRT program, which is funded through the Disability and Rehabilitation Research Projects and Centers Program, is to provide advanced research training and experience to individuals with doctorates, or similar advanced degrees, who have clinical or other relevant experience. ARRT projects train rehabilitation researchers, including researchers with disabilities, with particular attention to research areas that support the implementation and objectives of the Rehabilitation Act, and that improve the effectiveness of services authorized under the Rehabilitation Act. ARRT projects must provide advanced research training to eligible individuals to enhance their capacity to conduct high-quality multidisciplinary disability and rehabilitation research to improve outcomes for individuals with disabilities in NIDILRR major domains of community living and participation, employment, or health and function.

Due Date: 6/7/2016

Funding: Total Program Funding: $150,000 Award Ceiling: $150,000 Award Floor: $150,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282875

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Improving Physical Infrastructure Revisions of Center Grants (P40)

Description: This announcement invites revision applications to active National Institutes of Health Center Grant awards of participating NIH Institutes and Centers. The revised applications will propose improvements to physical infrastructure to enhance animal model research. The scope of the revisions will depend on the specific animal model-related research needs of investigators associated with the Center and will range from request for specialized equipment to support for alteration and renovation (A&R) projects. It is expected that applicants will propose sustainable designs and use green technologies.

Due Date: 8/1/2016

Funding: Total Program Funding: $1,000,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283223

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Leveraging Cognitive Neuroscience Research to Improve Assessment of Cancer Treatment Related Cognitive Impairment (R01)

Description: This FOA encourages transdisciplinary research that will leverage cognitive neuroscience to improve traditional measurement of cognitive impairment following cancer treatment, often referred to as chemobrain. A better understanding of the acute- and late-term cognitive changes following exposure to adjuvant chemotherapy and molecularly-targeted treatments, including hormonal therapy, for non-central nervous system tumors can inform clinical assessment protocols with downstream implications for survivorship care plans.

Due Date: 4/11/2019

Funding: See Announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283191

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: NIDCD Research Dissertation Fellowship for Au.D. Audiologists (F32)

Description: The NIDCD Research Dissertation Fellowship for Au.D. Audiologists (F32) program will enable promising Au.D. holders to obtain individualized, mentored research training from outstanding faculty sponsors while conducting dissertation research. Applicants for this F32 program are expected to propose a dissertation research project and training plan in scientific health-related fields relevant to the mission of NIDCD. This training plan should reflect the applicant's dissertation research project, and facilitate and clearly enhance the individual's potential to develop into a productive, independent research scientist. The training plan should document the need for, and the anticipated value of, the proposed mentored research and training in relationship to the individual's research career goals. The training plan should also facilitate the fellow's transition to the next stage of his/her research career.

Due Date: 5/7/2019

Funding: See Announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283190

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: NIDDK Mentored Research Scientist Development Award (K01)

Description: The purpose of the NIDDK Mentored Research Scientist Development Award (K01) is to provide support and protected time for an intensive, supervised career development experience in the biomedical, behavioral, or clinical sciences leading to research independence. The NIDDK invites K01 applications from experienced postdoctoral (two years minimum) and/or recently appointed junior faculty (usually with a Ph.D. degree) in biomedical, behavioral, or clinical sciences who are pursuing careers in research areas supported by the NIDDK.

Due Date: 5/7/2019

Funding: NIDDK will contribute up to $ 90,000 per year toward the salary of the career award recipient

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283205

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: NLM Career Development Award in Biomedical Informatics and Data Science (K01)

Description: The purpose of the NLM Career Development Award (K01) in Biomedical Informatics and Data Science is to provide support and "protected time" (up to three years) for an intensive career development experience in biomedical informatics and data science leading to research independence. NLM invites K01 applications from junior investigators, who have either a health professional or research doctorate and who are in the first three years of their initial faculty positions. Candidates who received their training at one of NLM's university-based biomedical informatics training programs are encouraged to apply.

Due Date: 5/7/2019

Funding: See Announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283117

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Mentored Quantitative Research Development Award (Parent K25)

Description: The purpose of the Mentored Quantitative Research Career Development Award (K25) is to attract to NIH-relevant research those investigators whose quantitative science and engineering research has thus far not been focused primarily on questions of health and disease. The K25 award will provide support and protected time for a period of supervised study and research for productive professionals with quantitative (e.g., mathematics, statistics, economics, computer science, imaging science, informatics, physics, chemistry) and engineering backgrounds to integrate their expertise with NIH-relevant research.

Due Date: 1/7/2018

Funding: See Announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283141

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: NIDDK Short-Term Research Experience Program for Underrepresented Persons (STEP-UP) (R25)

Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. NIDDK's Short-Term Research Experience for Underrepresented Persons (STEP-UP) provides funding to research institutions to provide for a national summer research experience program for both high school and undergraduate students for eight to ten weeks. STEP-UP seeks to facilitate exposure opportunities for students from diverse backgrounds underrepresented in biomedical research on a national basis, including individuals from disadvantaged backgrounds, individuals from underrepresented racial and ethnic groups and individuals with disabilities. To accomplish the stated goal, this FOA will support creative educational activities with a primary focus on Research Experiences and Mentoring Activities

Due Date: 8/9/2016

Funding: Total Program Funding: $1,600,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283143

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Investigator-Initiated Clinical Sequencing Research (R01)

Description: The purpose of this funding opportunity announcement is to broaden the NHGRI investigator-initiated portfolio in genomic medicine by stimulating research that informs the implementation of genome sequencing in clinical care. This includes, but is not limited to, studies of whether and how clinical genome sequencing impacts disease diagnosis and treatment, studies that address current barriers to the implementation of clinical genome sequencing, and studies of approaches to improve the identification and interpretation of genomic variants for dissemination in clinical settings.

Due Date: 11/15/2016

Funding: Total Program Funding: $4,000,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283165

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Lasker Clinical Research Scholars Program (Si2/R00)

Description: This FOA encourages applications for the Lasker Clinical Research Scholars Program for the purpose of supporting the research activities

during the early stage careers of independent clinical researchers. The program offers the opportunity for a unique bridge between the NIH intramural and extramural research communities and contains two phases. In the first phase, Lasker scholars will receive appointments for up to 5-7 years as tenure-track investigators within the NIH Intramural Research Program with independent research budgets. In the second phase, successful scholars will receive up to 3 years of NIH support for their research at an extramural research facility; or, the scholar can be considered to remain as an investigator within the intramural program.

Due Date: 8/26/2016

Funding: See announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283108

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Academic Research Enhancement Award (Parent R15)

Description: The purpose of the Academic Research Enhancement Award (AREA) program is to stimulate research in educational institutions that provide baccalaureate or advanced degrees for a significant number of the Nation's research scientists, but that have not been major recipients of NIH support. AREA grants create opportunities for scientists and institutions otherwise unlikely to participate extensively in NIH research programs to contribute to the Nation's biomedical and behavioral research effort. AREA grants are intended to support small-scale research projects proposed by faculty members of eligible, domestic institutions, to expose undergraduate and/or graduate students to meritorious research projects, and to strengthen the research environment of the applicant institution.

Due Date: 5/7/2019

Funding: Total Program Funding: See announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283084

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: NIH Pathway to Independence Award (Parent K99/R00)

Description: The purpose of the NIH Pathway to Independence Award (K99/R00) program is to increase and maintain a strong cohort of new and talented, NIH-supported, independent investigators. This program is designed to facilitate a timely transition of outstanding postdoctoral researchers with a

research and/or clinical doctorate degree from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions. The program will provide independent NIH research support during this transition in order to help awardees to launch competitive, independent research careers.

Due Date: 1/7/2018

Funding: See announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283042

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Cancer Research Education Grants Program to Promote Diversity - Research Experiences (R25)

Description: The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers. The over-arching goals of the NIH R25 program are to: (1) complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs; (2) enhance the diversity of the biomedical, behavioral and clinical research workforce; (3) help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral and clinical sciences; and (4) foster a better understanding of biomedical, behavioral and clinical research and its implications. The over-arching goal of this NCI R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral, and clinical research workforce.

Due Date: 9/7/2018

Funding: Total Program Funding: See announcement

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282324

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Collaborative Supplements for Cryo-Electron Microscopy Technology Transfer (Admin Supp)

Description: The purpose of this Funding Opportunity Announcement (FOA) is to assist qualified laboratories to develop technical expertise in high resolution cryo-electron microscopic (cryoEM) single particle analysis. The applicant and a collaborating established cryoEM laboratory will work together to

solve structures of novel, tractable specimens by cryoEM. Applicant laboratories should have relevant technical expertise and previous experience in structural biology or related fields that will allow them to develop independent expertise in cryoEM. One or two years of support should train the parent laboratory in cryoEM basics to a moderate level of skill, provide hands-on experience with all aspects of cryoEM analysis, and result in a structure.

Due Date: 6/7/2016

Funding: Total Program Funding: $2,000,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282195

Agency: National Endowment for the Humanities
National Endowment for the Humanities

Program: Research and Development

Description: The Research and Development program supports projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage—from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence—and to develop advanced modes of organizing, searching, discovering, and using such materials. This program recognizes that finding solutions to complex problems often requires forming interdisciplinary project teams, bringing together participants with expertise in the humanities; in preservation; and in information, computer, and natural science. All projects must demonstrate how advances in preservation and access would benefit the cultural heritage community in supporting humanities research, teaching, or public programming.

Due Date: 6/21/2016

Funding: Total Program Funding: $350,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283061

Agency: National Science Foundation
National Science Foundation

Program: Innovation Corps - National Innovation Network Sites Program (I-Corps Sites)

Description: The National Science Foundation (NSF) seeks to develop and nurture a national innovation ecosystem that builds upon research to guide the

output of scientific discoveries closer to the development of technologies, products and processes that benefit society. In order to contribute to a national innovation ecosystem, NSF established the NSF Innovation Corps Sites Program (NSF I-Corps Sites). Sites are funded at academic institutions, having already existing innovation or entrepreneurial units, to enable them to: Nurture students and/or faculty who are engaged in projects having the potential to be transitioned into the marketplace. I-Corps Sites will provide infrastructure, advice, resources, networking opportunities, training and modest funding to enable groups to transition their work into the marketplace or into becoming I-Corps Team applicants. Develop formal, active, local innovation ecosystems that contribute to a larger, national network of mentors, researchers, entrepreneurs and investors. Networking is an essential component of all of NSF's I-Corps activities – local and national networking activities help advance the goals of I-Corps and contribute to local and national ecosystems for innovation. The purpose of an I-Corps Site is to nurture and support multiple, local teams to transition their ideas, devices, processes or other intellectual activities into the marketplace.

Due Date: 5/25/2016

Funding: Total Program Funding: $2,500,000

Website: http://www.nsf.gov/pubs/2016/nsf16547/nsf16547.htm

Agency: National Science Foundation

Program: Energy, Power, Control, and Networks (EPCN)

Description: Recent advances in communications, computation, and sensing technologies offer unprecedented opportunities for the design of cyber-physical systems with increased responsiveness, interconnectivity and automation. To meet new challenges and societal needs, the Energy, Power, Control and Networks (EPCN) Program invests in systems and control methods for analysis and design of cyber-physical systems to ensure stability, performance, robustness, and security. Topics of interest include modeling, optimization, learning, and control of networked multi-agent systems, higher-level decision making, and dynamic resource allocation as well as risk management in the presence of uncertainty, sub-system failures and stochastic disturbances. EPCN also invests in adaptive dynamic programming, brain-like networked architectures performing real-time learning, and neuromorphic engineering. EPCN supports innovative proposals dealing with systems research in such areas as energy, transportation, and nanotechnology. EPCN places emphasis on electric power systems, including generation, transmission, storage, and integration of renewables; power electronics and drives; battery management systems; hybrid and electric vehicles; and

understanding of the interplay of power systems with associated regulatory and economic structures and with consumer behavior. Also of interest are interdependencies of power and energy systems with other critical infrastructures. Topics of interest also include systems analysis and design for energy scavenging and alternate energy technologies such as solar, wind, and hydrokinetic. The program also supports innovative tools and test beds, as well as curriculum development integrating research and education. In addition to single investigator projects, EPCN encourages cross-disciplinary proposals that benefit from active collaboration of researchers with complementary skills.

Due Date: 4/3/2017

Funding: See announcement

Website:
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505249&WT.mc_id=USNSF_25&WT.mc_ev=click

Agency: National Science Foundation

Program: Electronics, Photonics and Magnetic Devices (EPMD)

Description: The Electronics, Photonics, and Magnetic Devices (EPMD) Program seeks to improve the fundamental understanding of devices and components based on the principles of micro- and nano-electronics, optics and photonics, optoelectronics, magnetics, electromechanics, electromagnetics, and related physical phenomena. The Electronics & Magnetic Devices component of EPMD enables discovery and innovation advancing the frontiers of nanoelectronics, spin electronics, molecular and organic electronics, bioelectronics, biomagnetics, non-silicon electronics, and flexible electronics. It also addresses advances in energy-efficient electronics, sensors, low-noise, power electronics, and mixed signal devices. The Optic & Photonic Devices component of EPMD supports research and engineering efforts leading to significant advances in novel optical sources and photodetectors, optical communication devices, photonic integrated circuits, single-photon quantum devices, and nanophotonics. It also addresses novel optical imaging and sensing applications and solar cell photovoltaics. The program supports cooperative efforts with the semiconductor industry on new nanoelectronics concepts beyond the scaling limits of silicon technology. EPMD additionally emphasizes emerging areas of diagnostic, wearable and implantable devices, and supports manipulation and real-time measurement with nanoscale precision through new approaches to imaging and metrology.

Due Date: 4/3/2017

Funding: See announcement

Website:
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505250&WT.mc_id=USNSF_25&WT.mc_ev=click

Agency: National Science Foundation

Program: Robert Noyce Teacher Scholarship Program

Description: The National Science Foundation Robert Noyce Teacher Scholarship Program seeks to encourage talented science, technology, engineering, and mathematics majors and professionals to become K-12 STEM teachers. The program invites creative and innovative proposals that address the critical need for recruiting and preparing highly effective K-12 STEM teachers, especially in high-need local educational agencies. The program offers four tracks: Track 1: The Robert Noyce Teacher Scholarships and Stipends Track, Track 2: The NSF Teaching Fellowships Track, Track 3: The NSF Master Teaching Fellowships Track, and Track 4: Noyce Research Track. In addition, Capacity Building proposals are accepted from proposers intending to develop a future Track 1, 2, or 3 proposal.

Due Date: 9/6/2016

Funding: Total Program Funding: $56,530,000

Website:
http://www.nsf.gov/pubs/2016/nsf16559/nsf16559.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Agency: National Science Foundation

Program: Mathematical Sciences Postdoctoral Research Fellowships (MSPRF)

Description: The purpose of the Mathematical Sciences Postdoctoral Research Fellowships is to support future leaders in mathematics and statistics by facilitating their participation in postdoctoral research environments that will have maximal impact on their future scientific development. There are two options for awardees: Research Fellowship and Research Instructorship. Awards will support research in areas of mathematics and statistics, including applications to other disciplines.

Due Date: 10/19/2016

Funding: Total Funding Program: See announcement

Website:
http://www.nsf.gov/pubs/2016/nsf16558/nsf16558.htm?WT.mc_id=USNSF_25&WT.mc_ev=click#awd_info

Agency: National Science Foundation

Program: NSF Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM)

Description: Recognizing that financial aid alone cannot increase retention and graduation in STEM, the program provides awards to Institutions of Higher Education (IHEs) to fund scholarships and to advance the adaptation, implementation, and study of effective evidence-based curricular and co-curricular activities that support recruitment, retention, transfer (if appropriate), student success, academic/career pathways, and graduation in STEM. The S-STEM program encourages collaborations among different types of partners: Partnerships among different types of institutions; collaborations of STEM faculty and institutional, educational, and social science researchers; and partnerships among institutions of higher education and local business and industry, if appropriate. The program seeks: 1) to increase the number of low-income academically talented students with demonstrated financial need obtaining degrees in STEM and entering the workforce or graduate programs in STEM; 2) to improve the education of future scientists, engineers, and technicians, with a focus on academically talented low-income students; and 3) to generate knowledge to advance understanding of how factors or evidence-based curricular and co-curricular activities affect the success, retention, transfer, academic/career pathways, and graduation in STEM of low-income students.

Due Date: 5/16/2016

Funding: See announcement

Website:
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5257&WT.mc_id=USNSF_39&WT.mc_ev=click

Agency: U.S. Department of State
Bureau of Counterterrorism

Program: Building Civilian Criminal Justice Capacity to Address Terrorism

Description: The U.S. Department of State's Bureau of Counterterrorism (CT) announces a Funding Opportunity for organizations interested in implementing projects to strengthen the capacity of civilian criminal justice institutions and actors engaged in counterterrorism and countering violent extremism (CVE) efforts. Proposals should support one or more of the following CT objectives: 1) build law enforcement investigative capacity to conduct investigations of terrorism and disrupt terrorist networks, including through partnerships with civil society and community actors where appropriate; 2) build capacity to deter, detect, and interdict terrorist transit at airports or land border ports of entry; 3) encourage interagency and/or

regional information-sharing against counterterrorism threats; 4) develop comprehensive counterterrorism legal frameworks and justice sector capabilities to investigate, prosecute, and adjudicate complex terrorism cases within a rule of law framework; 5) counter the financing of terrorist organizations; 6) reduce the threat posed by former violent extremists by assisting governments and communities to establish effective rehabilitation and reintegration policies and programs, including in prisons; 7) enhance oversight and accountability of, and respect for human rights by, law enforcement and judicial entities conducting counterterrorism missions; 8) encourage and assist countries to implement United Nations Security Council Resolution (UNSCR) 2178 (2014) to address and mitigate the threat posed by FTFs, with a focus on information-sharing, traveler screening, and legal frameworks; and/or 9) promote and implement criminal justice efforts to deal with juveniles in a counterterrorism context.

Due Date: 6/12/2016

Funding: Award Ceiling: $1,500,000 Award Floor: $150,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282985

Agency: U.S. Department of Energy
National Energy Technology Laboratory

Program: Synchrophasor applications and tools for reliability, market efficiency, and asset management

Description: The purpose of this announcement is to advance two classes of software applications that rely on synchrophasor data: Reliability Management and Asset Management. All proposed projects must include field demonstration at a host site used as a transitional step toward full commercialization. Projects may also include activities that support aspects of the software applications including, but not limited to, data quality management processes and offline training simulators involving the advanced software applications.

Due Date: 6/30/2016

Funding: Total Program Funding: $5,000,000 Award Ceiling: $2,000,000 Award Floor: $500,000

Website: http://www.grants.gov/web/grants/view-opportunity.html?oppId=282403