

THE STATE UNIVERSITY SYSTEM OF FLORIDA

WASHINGTON E-UPDATE

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February 2016

Budget and Appropriations Update – President Obama will send his fiscal year 2017 budget request to Congress on Tuesday, February 9, the same day most eyes will be glued to the New Hampshire presidential primaries.

That timeframe means the White House will narrowly miss its February 1 statutory deadline for submitting a budget to Congress which, this year, happens to coincide with the Iowa presidential caucuses.

Congressional leaders have complained about the administration's tardiness in submitting a budget request—last year was the first time since 2010 that the White House has met the deadline—but Congress hasn't done much better. In fact, lawmakers have failed, under both parties, to get their own budget passed on time for the past two decades.

The budget for the fiscal year 2017, which begins October 1, will be the last of Barack Obama's presidency. While the specifics are embargoed until February 9, the budget is expected to adhere to the broad discretionary spending limits for defense and domestic programs established in the two-year bipartisan budget deal struck last fall. That deal raised overall spending limits on discretionary programs by \$30 billion.

For all practical purposes, however, the spending caps on defense and nondefense programs largely remain frozen between current fiscal year 2016 levels and fiscal year 2017. Base defense spending creeps up roughly \$3 billion, to \$551.07 billion, while nondefense programs remain effectively flat at \$518.53 billion.

Although congressional leaders have vowed to prioritize appropriations work—House Speaker Ryan says he plans to begin moving spending bills by mid-March—this year's legislative work plan leaves little time for any extended debates. According to their respective calendars, the House will be working 111 days this year, or about two days per work week on average, while the Senate is in session for 149 days. Both chambers will be off for two weeks for the national party conventions in July before taking off for the month of August. The House also plans to be out for the entire month of October.

Regardless of what shape it takes, the budget request will largely be met on Capitol Hill with a shrug in this contentious presidential election year. Moreover, the bitter primary season and sparse legislative calendar will make it hard to achieve much in the way of major legislation before voters hit the polls in November.



UCF & SUS to host annual HHS SBIR conference in 2016

A major scientific conference focusing on biotech innovation, small businesses and technology transfer will be held in Orlando next fall, thanks to an agreement between the National Institutes of Health and the UCF Office of Research & Commercialization in a collaboration with the SUS.

Over 700 attendees from biotech companies, universities and startup small businesses around the nation are expected to attend the 18th annual HHS SBIR/STTR Conference November 15 -17, 2016 being held at the DoubleTree by Hilton Orlando at SeaWorld located on International Drive.

The meeting will feature presentations by about 100 federal science officials from key HHS agencies, including NIH, FDA, CDC and others. The program will involve plenary sessions, as well as break out groups and opportunities for one-one meetings. Exhibits and poster sessions are also envisioned.

The NIH Small Business Innovation Research (SBIR) program funds early stage small businesses that are seeking to commercialize innovative biomedical technologies. This competitive program helps small businesses participate in federal research and development, develop life-saving technologies, and create jobs.

The NIH Small Business Technology Transfer (STTR) program is similar to the SBIR program, but requires that the small business formally collaborate with a research institution in Phase I and Phase II.

The program is in the early stages of development. For information about sponsorships and meeting events, contact Emily Fitzgerald at the UCF Office of Research and Commercialization sbirsttrorlando@ucf.edu.

Senators introduce student debt refinancing measure

Senator Elizabeth Warren (D-MA) and other Senate Democrats introduced legislation January 21 aimed at reducing student debt.

The legislation would allow individuals who can show their outstanding loans are a burden to refinance loans to prevailing interest rates. For private loans, the bill would empower the Education Department to purchase loans from banks and then students would be able to refinance at lower rates. Currently refinancing can only occur through the private market.

According to the Congressional Budget Office and the Joint Committee on Taxation, the bill would cost the government \$58 billion over the next decade.

The Senator, who has long been an advocate for student debt reform, said student loan refinancing should be easily available just as it is for homeowner and business refinancing. Though Senator Warren initially introduced this legislation as a stand-alone bill, it has now been incorporated into the Democrats' proposed package for the reauthorization of the Higher Education Act, called the RED Act.

Senator Lamar Alexander (R-TN), Chair of the Help, Education, Labor, and Pensions Committee, has noted that reauthorization of the Higher Education Act is a priority for his committee in 2016. The Committee has held hearings on a number of issues, including student debt, and Democrats have made it clear that student debt reform is one of their top priorities for the reauthorization.

Comprehensive Justice and Mental Health Act approved by House committee

The House Judiciary committee approved on January 12th a bill that would strengthen the care and treatment of mentally ill offenders by advancing collaboration between the criminal justice, mental health treatment, and substance abuse systems. The bill is sponsored by Congressmen Doug Collins (R-GA) and Bobby Scott (D-VA). The *Comprehensive Justice and Mental Health Act of 2015* was the last bill to be discussed during the markup and had no amendments suggested by committee members.

The bill would reauthorize and expand the *Mentally Ill Offender Treatment and Crime Reduction Act* of 2004. Congressman Collins (R-GA) mentioned that the grants provided by this bill will be beneficial for the more than two million inmates with mental illness who enter the correctional system each year and the community because the "bill

takes steps to increase public safety, reduce the rate of recidivism, and decrease costs.”

All members of the committee unanimously agreed upon the objectives of the bill and subsequently approved it by voice.

If enacted into law, this bill would expand economic support for mental health courts, crisis-intervention teams, and transitional services for mentally ill inmates. According to data from the House Judiciary Committee, these correction-based programs have proven to be effective in reducing recidivism rates and effectively identifying the best treatment approaches for inmates in need of mental health treatment.

Furthermore, the bill will accomplish its intended goals by funding training of law enforcement officers to properly deal with incidents involving inmates with mental health conditions. Also, the grants are expected to improve the recovery of felon veterans afflicted by mental health conditions by facilitating their access to treatment courts, which are better able to identify and assign effective treatment for drug addiction, PTSD, and other mental health issues. According to Committee Chairman Bob Goodlatte (R-VA), “the resources provided in this bill will go a long way towards saving lives, stewarding taxpayer dollars, and enhancing public safety.”

Finally, the measure would assure accountability in the use of federally granted resources. Programs supported by the grants would rely on evidence-based practices that have worked in the past. The bill’s co-sponsor, Bobby Scott (D-VA), said during the markup that “we need to provide comprehensive research-based interventions at every stage of the criminal justice process to improve treatment and rehabilitation.” The survival of this bill will now depend on the decision of the full House, which will further discuss, amend and vote on the bill. Additional information about the bill is [available here](#).

Democrats hope to remove ban on gun violence research by CDC

A measure to restore funding for research on gun violence will likely be a key goal of Democrats for the FY17 appropriations bill that supports the Centers for Disease Control and Prevention (CDC).

An appropriations provision dating back to 1996 by then Congressman Jay Dickey (R-AL) currently blocks the CDC from conducting research relating to gun usage and violence. Democrats now plan to seek to remove this provision, having failed in a similar bid during the Fiscal 2016 omnibus appropriations negotiations in December.

Senate Democrats held a press conference on January 21 with gun violence researchers, emphasizing the need for federal funding to support the “public health epidemic” of gun violence. Senator Ed Markey (D-MA) said that, “[the Senate] will have [the gun research] debate this year.” Though this issue has not been a central issue in appropriations debates, gun control advocates suggest that it has been gaining momentum with Democrats.

Bipartisan bill would reauthorize grants for university Veteran Student Centers

Lawmakers led by Representative Lois Frankel (D-FL) and House Veterans' Affairs Committee Vice Chair Gus Bilirakis (R-FL) have introduced legislation designed to provide on-campus support for veterans and active service members seeking college degrees. The *Veteran Education Empowerment Act* (H.R. 1399) would reauthorize grants for universities with a significant population of veterans.

Up to thirty grants, providing \$500,000 over four years, would be competitively awarded to universities that establish, maintain, or improve a Veteran Student Center. Successful centers would provide students with assistance and counseling, career services, academic support, and other services. The bill has received endorsements from over a dozen veteran organizations, including the Student Veterans of America.

An existing program through the Department of Education has demonstrated the benefits of the program as universities have opened Veteran Student Centers to help provide services and increase retention rates and job prospects for veterans.

Rep. Frankel visited Florida Atlantic University in November and sought input regarding the bill. Speaking to the Sun Sentinel, Frankel said: "Veterans have stood up for us. Now it's time for us to stand up for them. Creating on-campus communities for student veterans will help ease the transition from military to student life by providing networking opportunities, assistance with federal benefits and career services."

Rep. Bilirakis stated: "Veterans returning home have earned educational benefits, and Congress should do everything it can to ensure Veterans can receive the resources to pursue the education and skills necessary to successfully start a new chapter after their service has ended." The full bill text can be read [here](#).

House hearing details private sector cybersecurity lessons that can be applied to government agencies

Two data breaches at the Office of Personnel Management (OPM) in the summer of 2015 exposed personal data of an estimated 21.5 million people. With that in mind House Subcommittees on Research & Technology, chaired by Rep. Barbara Comstock (R-Va), and Oversight, chaired by Rep. Barry Loudermilk (R-Ga), discussed cybersecurity legislation and standards in a joint hearing on January 8. This is the second hearing held by the Science, Space and Technology Committee relating to the OPM data breach.

According to Committee Chairman Smith, audits of 24 major federal agencies last year revealed that 19 of 24 did not meet basic mandatory cybersecurity standards. In the

wake of increasing cyber-breaches of both government and private entities, good cybersecurity practices are more imperative than ever before, he said.

In the opening statements, the various chairs mentioned recent legislation such as the *Cybersecurity Act of 2015*, which gives private companies some liability protection for voluntarily sharing information about impending cyber threats with each other and the federal government; the *Cybersecurity Enhancement Act of 2014*, which provides for scholarships and other efforts to increase cybersecurity standards, promote awareness and bolster research; and Executive Order 13636, which led the National Institute of Standards and Technology (NIST) to develop the *Framework for Improving Critical Infrastructure*.

The hearing, entitled Cybersecurity: “What the Federal Government Can Learn from the Private Sector,” featured witnesses from the private sector who gave suggestions as to how the government can improve both prevention and response to cyber threats. Witnesses included Mr. John B. Wood Chief Executive Officer and Chairman, Telos Corporation; Dr. Martin Casado, Senior Vice President and General Manager, Networking and Security Business Unit, VMWare; Mr. Ken Schneider, Vice President of Technology Strategy, Symantec Corporation; and Mr. Larry Clinton, President and Chief Executive Officer, Internet Security Alliance.

Many of the issues discussed reflected the current disparity between public and private sector practices in regards to cybersecurity. Dr. Casado noted that in recent attacks, once the attacker was inside the system, they were “able to move freely around the agency’s network.” This is due to what’s known as perimeter-based security, which only protects against attacks to the overall system. A solution to this problem is to set up “doors” within the system, so as to prevent attackers from moving from one “room” to another. Cyberinsurance, suggested by Mr. Wood, could help mitigate risk, as well as increase security measures because insurance companies would likely require companies to show NIST compliance to demonstrate due care and become insured.

Mr. Clinton gave some cues that the government could do well to take from the private sector, among which were spending more on cyber security and to educating top leadership. Cybercrime has estimated costs of up to a half trillion dollars per year in the US, and yet the federal government only spends \$6 to 7 billion per year on non-defense cybersecurity, compared to private sector spending of over \$100 billion. While the private sector is educating its boards on the fundamentals of cybersecurity, top government officials generally have little training or knowledge when it comes to cybersecurity, he said.

Another point raised during the hearing was the dearth of cybersecurity professionals to fill the jobs currently available in the field. According to panelist John Wood, his home state of Virginia alone has announced 17,000 unfilled professional cybersecurity jobs. This suggests a need to encourage more young people to choose cybersecurity as their field of study, he added. For more information a webcast of the hearing can be found [here](#).

CBO releases budget and economic outlook for 2016 through 2026

The Congressional Budget Office (CBO) recently released its budget and economic outlook for 2016 through 2026. It estimates the 2016 budget deficit will be \$544 billion or 2.9 percent of gross domestic product. That is \$105 billion more in deficit than last year. According to the CBO, about \$43 billion of the deficit increase is the result of the government having to make fiscal year 2017 payments during fiscal year 2016, because the first day of fiscal year 2017 falls on a weekend. Another contributor is enacted legislation, such as the recent extension of provisions that lower individual and corporate income taxes.

Federal outlays are another factor in the deficit increase. Mandatory outlays will increase by \$168 billion. Social security outlays are expected to increase by \$28 billion or 3 percent, and mandatory spending for Medicare, Medicaid, Children's Health Insurance Program (CHIP), and subsidies for health insurance and its related expenses will also be \$104 billion greater than last year. Also, there will be a \$32 billion increase in spending on discretionary outlays compared to fiscal year 2015. This increase is largely the consequence of the Bipartisan Budget Act of 2015, which increased limits on discretionary funding and from the appropriations of the 2016 budget. The CBO also projects an increase of \$32 billion in federal outlays as a result of rising interest rates and growing federal debt.

The CBO suggests that the increase in the budget deficit is the result of an increase in federal spending, especially in social security and interest payments on federal debt and health care, which will outpace revenue growth in the next 10 years. It is projected that if current laws remain in place, increasing outlays would surpass economic growth; this would cause federal outlays to represent 23 percent of GDP by 2026. The CBO suggests that this increase is mainly triggered by the aging population and higher health care costs per person.

The CBO projects that high rising debt will negatively affect the nation's budget and economy in the long term. The expected deficit is likely to increase public debt to 76 percent of GDP by the end of 2016, 86 percent of GDP by the end of 2026, and by 155 percent of GDP in 30 years if current laws remain in place. The CBO suggests that debt this high would negatively affect our economy because 1) interest rates will eventually normalize and cause federal spending to rise proportionately, increasing public debt; 2) federal borrowing would reduce total savings and capital stock, lowering productivity and total wages; 3) lawmakers could not be flexible with taxation and spending policies; and 4) a fiscal crisis would be a possibility, scaring away investors.

The CBO projects a bittersweet economic future for the nation. In terms of fiscal policy, it is estimated that laws enacted since August will increase GDP by 2.7 percent and 2.5 percent in 2016 and 2017, respectively. From 2018 through 2020, an average annual economic growth rate of 2 percent is expected. From 2021 to 2026, potential GDP is projected to grow at an average of 2 percent annually. Fiscal policies, particularly the Affordable Care Act, are projected to decrease labor supply and output growth through 2020. The labor market will experience stable economic growth in 2016 and 2017 but will grow at a slower rate in subsequent years. The CBO expects a decrease in slack

labor for 2016 and 2017 but projects an unemployment rate of 5 percent over the 2021–2026 periods. Inflation for 2016 through 2017 is expected to increase as a result of short-term economic growth. It will help reach the FED inflation rate goal of 2 percent. From 2021 through 2026, inflation will average at 2 percent yearly. Finally, the CBO projects the federal funds rate will increase to 3.5 percent, while the interest rate on 3-month and 10-month treasury bills will rise to 3.2 and 4.1, by 2019 and are expected to average 3.2 and 4.1 percent by 2026 respectively.

Finally, the CBO estimates Obamacare enrollment will decline in 2016, readjusting its original projection that the number of people enrolled in health insurance plans bought through government exchanges was going to be 21 million. Now it is estimated at 13 million. The new projections predict that 11 million would enroll for subsidized coverage and 2 million would opt for unsubsidized coverage. It is estimated that for the first time health care programs will be more expensive than social security programs. For more information on this report go to: <https://www.cbo.gov/publication/51129>

Pew report recommends ways states can lower tuition costs

The Pew Charitable Trusts recently produced a blog on "the higher costs of higher education," highlighting state efforts to deal with increasing tuition for students. Pew notes that though higher education reform has become a key piece of 2016 campaign rhetoric, states will likely pursue more modest reform agendas, including changes to the scholarship infrastructure and considering tuition freezes. States are faced with limited budgets to support their efforts to increase university attendance.

Pew offers a number of suggestions to the states that could assist in lowering tuition and making education more accessible to students, including increasing funding for universities, reforming need-based scholarships, or considering more drastic measures which could shift the costs associated with education. To this end, many states are considering (or have implemented) free two-year community college in efforts to begin making education more accessible to a wider breadth of students. To read more, please see <http://www.pewtrusts.org/en/research-and-analysis/blogs/stateline/2016/01/25/the-high-cost-of-higher-education>.

Highlights of competitive grant opportunities at federal agencies

Agency: U.S Agency for International Development
Agency for International Development

Program: Expanding Participating of People with Disability Program

Description: The United States Agency for International Development in Bangladesh (USAID/Bangladesh) is seeking Concept Papers from qualified US and

non-US organizations and Bangladeshi Disabled People's Organizations (DPOs) registered with the NGO Affairs Bureau (NGOAB) to propose innovative and effective approaches to apply for FY15 disability funding to: - Increase the participation of people with disabilities in USAID programs/activities, and - Strengthen the capacity and leadership of civil society organizations run by and for people with disabilities; herein referred to as Disabled People's Organizations (DPOs) Projects may be stand-alone, targeted programs to benefit persons with disabilities, or they can be projects/activities that seek to mainstream persons with disabilities within larger USAID/Bangladesh programs. The deadline for submission of the concept papers is February 08, 2016. Concept papers must be submitted electronically to Fatema Zil-e-Resalat, Acquisition and Assistance Specialist at fresalat@usaid.gov and Patricia Siaso, Agreement Officer at tsiaso@usaid.gov

Due Date: 2/8/2016

Funding: Total Funding: \$600,000 Award Ceiling: \$600,000 Award Floor: \$20,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281083>

Agency: U.S. Department of Defense
The Office of the Secretary of Defense (OSD)

Program: Minerva Research Initiative

Description: The Office of the Secretary of Defense (OSD) is interested in receiving proposals for the Minerva Research Initiative (<http://minerva.dtic.mil>), a university-led defense social science program seeking fundamental understanding of the social and cultural forces shaping U.S. strategic interests globally. The Minerva Research Initiative (Minerva) emphasizes questions of strategic importance to U.S. national security policy. It seeks to increase the Department's intellectual capital in the social sciences and improve its ability to address future challenges and build bridges between the Department and the social science community. The Minerva Research Initiative competition is for research related to the five (5) topics and associated subtopics listed below. Innovative white papers and proposals related to these research topics are highly encouraged. Detailed descriptions of the topics can be found in Section IX, "Specific Minerva Research Initiative Topics." I. Identity, Influence, and Mobilization Culture, identity, and security Influence and mobilization for change II. Contributors to Societal Resilience and Change Governance and rule of law Migration and urbanization Populations and demographics Environment and natural resources Economics III. Power and Deterrence Global order Power projection and diffusion Beyond conventional deterrence Area studies IV. Analytical methods and metrics for security research V. Innovations in National Security, Conflict, and Cooperation Proposals will be considered.

Due Date: 6/17/2016

Funding: Award Ceiling: \$5,000,000 Award Floor: \$150,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280923>

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

Program: Air Force Studies Requirement

Description: Air Force Office of Scientific Research (AFOSR) is seeking proposals to provide independent, objective analysis of scientific and technical topics of relevance to the Air Force and national defense. The activity would include refining areas of interest provided by the Air Force into organized, rigorous studies concerning, for many scientific and technical fields, determining the state of the art, projecting trends, utilizing science and technologies for national defense purposes, and identifying promising or necessary areas of additional study. This announcement solicits proposals for up to five (5) years of performance and up to \$25M of funding, dependent on the needs of the Air Force and the availability of funding. All proposals must be unclassified, but work under any award may be classified.

Due Date: 1/27/2016

Funding: Total Funding: \$25,000,000 Award Ceiling: \$25,000,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280651>

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

Program: DoD Joint Program Committee-2/Military Infectious Diseases Applied Research Award

Description: The FY17 JPC-2/MIDRP ARA seeks to fund applied research applications focused on the reduction of combat-related or trauma-induced wound infection morbidity and mortality. These projects are expected to inform and identify which potential health products, approaches, or technologies are best positioned for human testing. The intent of the FY17 JPC-2/MIDRP ARA is to support the following: • Hypothesis-testing and/or proof-of-concept studies in in vitro and/or in vivo models; • Refinement of concepts and ideas into potential solutions with a view toward evaluating technical feasibility of emerging approaches, technologies, and promising new products; • Evaluation, maturation, and/or down-selection of potential product candidates (drugs, biologic/vaccine constructs, or devices/systems) in vitro and/or in vivo; and • Completion of preclinical

safety and/or toxicity studies sufficient to support Investigational New Drug/Investigational Device Exemption (IND/IDE) applications. Awards may support studies involving human subjects but not clinical trials. A clinical trial is defined as a prospective accrual of human subjects 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. This outcome represents a direct effect on the human subject of that intervention or interaction.

Due Date: 5/9/2016

Funding: Total Funding: \$20,500,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280590>

Agency: U.S. Department of Education
Office of Elementary and Secondary Education (OESE):

Program: College Assistance Migrant Program (CAMP) CFDA Number 84.149A

Description: The purposes of HEP are to help migrant and seasonal farmworkers and members of their immediate family: (1) Obtain a general education diploma that meets the guidelines for high school equivalency (HSE) established by the State in which the HEP project is conducted; and (2) gain employment or be placed in an institution of higher education (IHE) or other postsecondary education or training.

Due Date: 3/7/2016

Funding: Total Funding: \$4,082,415 Award Ceiling: \$475,000 Award Floor: \$180,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280857>

Agency: U.S. Department of Education
Office of Postsecondary Education

Program: Talent Search Program CFDA Number 84.044A

Description: The purpose of the Talent Search Program is to identify qualified individuals from disadvantaged backgrounds with potential for education at the postsecondary level and encourage them to complete secondary school and undertake postsecondary education. Talent Search projects publicize the availability of, and facilitate the application for, student financial assistance for persons who seek to pursue postsecondary education, and encourage persons who have not completed programs at

the secondary or postsecondary level to enter or reenter and complete these programs..

Due Date: 02/05/2016

Funding: Total Funding: \$134,662,000 Award Ceiling: \$240,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280664>

Agency: U.S. Department of Energy
Office of Science

Program: Systems Biology Enabled Research on the Roles of Microbial Communities in Carbon Cycle Processes

Description: The Office of Biological and Environmental Research (BER) of the Office of Science (SC), U.S. Department of Energy (DOE) hereby announces its interest in receiving applications for research that supports the Genomic Science research program (<http://genomicscience.energy.gov>). In this announcement, applications are solicited for: i.) systems biology studies on regulatory and metabolic networks of microbes, microbial consortia, and microbe-plant interactions involved in biogeochemical cycling of carbon, ii.) development and application of -omics approaches to investigate microbial community functional processes involved in carbon cycling in terrestrial ecosystems.

Due Date: 3/23/2016

Funding: Total Funding: \$10,000,000 Award Ceiling: \$1,250,000 Award Floor: \$250,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280206>

Agency: U.S. Department of Energy
Office of Science

Program: Experimental Program to Stimulate Competitive Research (EPSCoR); Building EPSCoR-State/National Laboratory Partnerships

Description: The U. S. Department of Energy's Experimental Program to Stimulate Competitive Research (DOE EPSCoR) has announced its interest in receiving applications for building EPSCoR-State/DOE-National Laboratory Partnerships. These partnerships are to advance fundamental energy oriented scientific and engineering research collaborations with the DOE Federally Funded Research and Development Centers (DOE FFRDCs hereafter referred to as the National Laboratories) (Information on the DOE National Laboratories can be found at <http://www.energy.gov/about-national-labs>). Participation by graduate

students and/or postdoctoral fellows is required. Junior faculty from EPSCoR jurisdictions are encouraged to apply. Utilization of DOE user facilities is encouraged.

Due Date: 1/28/2016

Funding: Total Funding: \$3,000,000 Award Ceiling: \$200,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=279599>

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

Program: Oocyte Mitochondrial Function in Relation to Fertility, Aging, and Mitochondrial Diseases (R21)

Description: The purpose of this announcement is to encourage applications from the scientific community to support outstanding research in the area of oocyte mitochondrial function in relation to fertility, aging, and mitochondrial disease transmission to offspring. The overarching goal is to gain fundamental insight into the role of mitochondria and long-term consequences of their dysfunction in the oocyte, and to develop therapeutic or alternative approaches to treat mitochondrial dysfunction for improving oocyte quality and competency, and health of the resultant offspring. It is anticipated that the results from studies supported by this FOA will provide women, suffering from infertility or subfertility and other illnesses due to mitochondrial dysfunction, practical approaches to enhance their fertility and the well-being of their offspring. This funding opportunity announcement encourages innovative and high-risk/impact studies that may lead to breakthrough in mitochondrial function, or to the development of novel techniques, agents, methodologies, models, or applications that could have a major impact in understanding and treatment of mitochondrial dysfunction.

Due Date: 5/7/2019

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281130>

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

Program: Noise-Induced Synaptopathy in the Human Auditory System (R01)

Description: This announcement seeks applications focused on determining if noise-induced cochlear synaptopathy occurs in humans. Studies may include, but are not limited to, diagnosis/detection and determination of functional

consequences of such noise-induced damage. Animal studies could be responsive to this FOA, but the direct applicability to humans must be clearly delineated. Multi-disciplinary teams are encouraged to apply.

Due Date: 1/24/2017

Funding: Total Funding: \$1,500,000 Award Ceiling: \$500,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281114>

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

Program: Feasibility Studies to Build Collaborative Partnerships in Cancer Research (P20)

Description: Through this announcement the National Cancer Institute (NCI) invites P20 planning grant applications for developing collaborative partnership between institutions serving underserved health disparity populations and underrepresented students (ISUPS) and NCI- designated Cancer Centers (or Cancer Centers with highly integrated cancer research programs). This FOA is designed to facilitate the planning and execution of focused collaborations in cancer-related research, research experience, and research education. A major goal of the NCI P20 partnership programs is to provide support for investigators at ISUPS and Cancer Centers to conduct cancer research pilot projects and cancer research education program. The purpose of the pilot projects and education program is to allow awardees to obtain preliminary data that will lead to competitive grant applications for funding by the NIH/NCI and/or other Federal/Non-Federal agencies.

Due Date: 1/29/2018

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281022>

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

Program: NIA Clinical Research Project Planning Grant Program (R34)

Description: The NIA is committed to identifying effective treatments for diseases and conditions associated with aging and to ascertaining the associated health outcomes by supporting robust, well-planned and designed, and well-executed clinical trials and clinical research projects. This funding opportunity announcement (FOA) aims to support the planning activities needed for the successful execution of clinical trials and clinical research

projects, including protocol, Manual of Procedures (MOP), data collection forms, and data and safety monitoring plan development as recommended by the NIA Clinical Research Study Investigator's Toolbox

Due Date: 3/16/2019

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281031>

Agency: U.S. Department of Health and Human Services
Office of the Assistant Secretary for Health

Program: Announcement of the Availability of Funds for Phase II Limited Competition Research on Research Integrity

Description: The purpose of this Funding Opportunity Announcement (FOA) is to foster innovative approaches to empirical research on societal, organizational, group, and individual factors that affect, both positively and negatively, integrity in research. Integrity is defined as the use of honest and verifiable methods in proposing, performing, and evaluating research and reporting research results with particular attention to adherence to rules, regulations, guidelines, and commonly accepted professional codes or norms.

Due Date: 4/22/2016

Funding: Total Funding: \$350,000 Award Ceiling: \$175,000 Award Floor: \$175,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280982>

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

Program: Use of 3D Printing for Creation of Implantable Devices (R21/R33)

Description: This Funding Opportunity Announcement (FOA) encourages applications for Phased Innovation (R21/R33) grant awards to utilize 3D printing technologies to develop implantable devices and biodegradable scaffolds for long-term use that will adapt to the needs of growing children. This FOA provides support for up to two years (R21 phase) for research planning activities and feasibility studies, followed by a possible transition to expanded research support (R33 phase). Transition to the R33 depends on the completion of applicant-defined milestones, as well as program priorities and the availability of funds.

Due Date: 3/17/2016

Funding: Total Funding: \$1,750,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280955>

Agency: U.S. Department of Health and Human Services
Office of the Assistant Secretary for Health

Program: Announcement of the Availability of Funds for Conferences on Research Integrity

Description: In accordance with 42 C.F.R. Part 93, the Office of Research Integrity (ORI) seeks to support conferences to develop multi-disciplinary networks to build upon existing evidence-based research and stimulate innovative approaches to preventing research misconduct and promoting research integrity. ORI is especially interested in supporting conferences that lead to extramural grant applications on research on research integrity and peer-reviewed publications. Conferences or workshops must be designed to provide a forum for discussion and produce tangible outcomes related to at least one of the following themes: 1) responsible conduct of research training; 2) fostering an environment that promotes research integrity; 3) prevention of research misconduct; 4) handling of research misconduct allegations; 5) whistleblowing; 6) international issues in research integrity; or, 7) other topics clearly linked to research integrity and compliance with 42 C.F.R. Part 93.

Due Date: 4/22/2016

Funding: Total Funding: \$250,000 Award Ceiling: \$50,000 Award Floor: \$50,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280981>

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

Program: Disability and Rehabilitation Research Projects (DRRP) Program: Projects for Translating the Findings and Products of Disability and Rehabilitation Research and Development into Practice

Description: This is the Funding Opportunity for Disability and Rehabilitation Research Projects (DRRP) Program: Projects for Translating the Findings and Products of Disability and Rehabilitation Research and Development into Practice The purpose of DRRPs, which are funded through the Disability and Rehabilitation Research Projects and Centers Program, is to improve the effectiveness of services authorized under the Rehabilitation Act by developing methods, procedures, and rehabilitation technologies that advance a wide range of independent living and employment outcomes for individuals with disabilities, especially individuals with the most significant disabilities. Under this particular DRRP priority, grantees must promote

the use or adoption of findings or products from NIDILRR-sponsored research or development projects.

Due Date: 3/14/2016

Funding: Total Funding: \$300,000 Award Ceiling: \$150,000 Award Floor: \$150,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280965>

Agency: Department of Health and Human Services
National Institutes of Health

Program: Behavioral and Integrative Treatment Development Program (R34)

Description: The purpose of this FOA is to encourage investigators to propose discrete well-defined projects that can be completed within three years. Projects of interest fall within the research domain of behavioral or integrated (e.g., behavioral and pharmacological) interventions targeting: (a) substance abuse; (b) prevention of acquisition or transmission of HIV infection among individuals in substance abuse treatment; (c) promotion of adherence to substance abuse treatment, HIV and addiction medications; and (d) chronic pain. Specific examples include, but are not limited to studies focusing on: 1) Stage I intervention generation; 2) Stage I pilot or feasibility and both should include the development of putative targets/moderators, mediators, and change mechanisms;(3) Stage I studies to generate or refine substance abuse treatment or adherence interventions for use in primary care; (4) Stage I research to boost effects and increase implementability of interventions with creative use of technology or other means.

Due Date: 1/7/2019

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280878>

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

Program: Clinical Development of Minimally-Invasive Bioassays to Support Outpatient Clinical Trials of Therapeutics for Substance Use Disorders (R21)

Description: This Funding Opportunity Announcement (FOA) encourages Research Project Grant (R21) applications from institutions/ organizations that propose to develop non-invasive methods to support outpatient clinical trials of pharmacotherapies for Substance Use Disorders (SUDs).

Due Date: 9/7/2018

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280873>

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

Program: Clinical Development of Minimally-Invasive Bioassays to Support Outpatient Clinical Trials of Therapeutics for Substance Use Disorders (R01)

Description: This Funding Opportunity Announcement (FOA) encourages Research Project Grant (R01) applications from institutions/ organizations that propose to develop non-invasive methods to support outpatient clinical trials of pharmacotherapies for Substance Use Disorders (SUDs).

Due Date: 9/7/2018

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280879>

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: 5/7/2016

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280855>

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

Program: NIDCR Small Research Grants for Data Analysis and Statistical Methodology Applied to Genome-wide Data (R03)

Description: The purpose of this FOA is to provide support for meritorious research projects that involve statistical analysis of existing genome-wide data (e.g. genome-wide SNP genotyping; DNA sequencing; transcriptomic, metagenomic, epigenomic, or gene expression data) relevant to human dental, oral, or craniofacial conditions or traits. Development of statistical methodology appropriate for analyzing genome-wide data, relevant to human dental, oral, or craniofacial conditions or traits, may also be proposed.

Due Date: 1/7/2019

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280875>

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

Program: Behavioral Science Track Award for Rapid Transition (B/Start)(R03)

Description: The purpose of this FOA is to encourage investigators to propose discrete well-defined projects that can be completed within two years. Projects of interest fall within the research domain of behavioral or integrated (e.g., behavioral and pharmacological) interventions targeting: (a) substance abuse; (b) prevention of acquisition or transmission of HIV infection among individuals in drug abuse treatment; (c) promotion of adherence to drug abuse treatment, HIV and addiction medications; and (d) chronic pain. Specific examples include, but are not limited to studies focusing on: 1) Stage I intervention generation; 2) Stage I pilot or feasibility and both should include the development of putative moderators, mediators, and change mechanisms; (3) Stage I studies to generate or refine drug abuse treatment or adherence interventions; (4) Stage I research to boost effects and increase implementability of interventions with creative use of technology or through other means.

Due Date: 1/7/2019

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280877>

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

Program: Administrative Supplements for Research on Sex/Gender Differences (Admin Supp)

Description: The Office of Research on Women's Health (ORWH) announces the availability of administrative supplements to support research highlighting the impact of sex/gender differences (or similarities) and/or sex and gender factors in human health and illness, including basic, preclinical, clinical and behavioral studies. Of special interest are studies relevant to understanding of the significance of biological sex on cells; comparative studies of male and female tissues, organ systems and physiological systems; sex based comparisons of pathophysiology, biomarkers, gene expression, clinical presentation and prevention and treatment of diseases. The proposed research must address at least one objective from Goals 1 through 3 of the NIH Strategic Plan for Women's Health Research.

Due Date: 3/4/2016

Funding: Total Funding: \$5,000,000 Award Ceiling: \$100,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280829>

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

Program: FIELD INITIATED PROJECTS PROGRAM (DEVELOPMENT)

Description: The purpose of the Field Initiated (FI) Projects program is to generate new knowledge through research or 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 development activity under an FI Projects development grant, a grantee must use knowledge and understanding gained from research to create materials, devices, systems, or methods, including designing and developing prototypes and processes, that are beneficial to the target population. There may be more than one target population because a project may affect those who receive services, provide services, or administer services. Please note this will be the Funding Opportunity for Field Initiated Development proposals.

Due Date: 2/22/2016

Funding: Total Funding: \$1,800,000 Award Ceiling: \$200,000 Award Floor: \$195,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280719>

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

Program: Small Grants for New Investigators to Promote Diversity in Health-Related Research (R21)

Description: The purpose of this Funding Opportunity Announcement (FOA) is to provide support for New Investigators from backgrounds nationally underrepresented in biomedical and behavioral research to conduct small research projects in the scientific mission areas of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The R21 is intended to support small research projects that can be carried out in a short period of time with limited resources and seeks to facilitate the transition to research independence of New Investigators from backgrounds underrepresented in the biomedical and behavioral sciences. The R21 grant mechanism supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology.

Due Date: 1/7/2019

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280640>

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

Program: FIELD INITIATED PROJECTS PROGRAM (RESEARCH)

Description: The purpose of the Field Initiated (FI) Projects program is to generate new knowledge through research or 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 an 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: 2/22/2016

Funding: Total Funding: \$1,800,000 Award Ceiling: \$200,000 Award Floor: \$195,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280700>

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

Program: The NCI Predoctoral to Postdoctoral Fellow Transition Award (F99/K00)

Description: The purpose of the NCI Predoctoral to Postdoctoral Fellow Transition Award (F99/K00) is to encourage and retain outstanding graduate students who have demonstrated potential and interest in pursuing careers as independent cancer researchers. The award will facilitate the transition of talented graduate students into successful cancer research postdoctoral appointments, and provide opportunities for career development activities relevant to their long-term career goals of becoming independent cancer researchers.

Due Date: 2/19/2016

Funding: Total Funding: \$1,400,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280626>

Agency: Department of Health and Human Services
National Institutes of Health

Program: Availability of Administrative Supplements to NIGMS Predoctoral Training Grants (Admin Supp)

Description: The National Institute of General Medical Sciences (NIGMS) announces the availability of funds for Administrative Supplements to NIGMS-funded predoctoral T32 training grants. These funds are designed to provide support for the development and implementation of curricular activities aimed at providing graduate students with a strong foundation in research design and methods in areas related to conducting reproducible and rigorous research.

Due Date: 3/31/2016

Funding: Total Funding: \$1,500,000 Award Ceiling: \$80,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280502>

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

Program: NIDCD Early Career Research (ECR) Award (R21)

Description: The NIDCD Early Career Research (ECR) Award (R21) is intended to support both basic and clinical research from scientists who are beginning to establish an independent research career. It cannot be used for thesis or dissertation research. The research must be focused on one or more of the areas within the biomedical and behavioral scientific mission of the NIDCD: hearing, balance, smell, taste, voice, speech, or language. The NIDCD ECR Award R21 grant mechanism supports different types of projects including secondary analysis of existing data; small, self-contained research projects; development of research methodology; translational research; outcomes research; and development of new research technology. Irrespective of the type of project, the intent of the NIDCD ECR Award R21 is for the Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) to obtain sufficient preliminary data for a subsequent R01 application.

Due Date: 10/26/2018

Funding: Award Ceiling: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280504>

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

Program: U.S.-China Program for Biomedical Collaborative Research (R01)

Description: The purpose of the U.S.-China Program for Biomedical Collaborative Research is to stimulate collaborative basic, translational, and clinical research between United States (U.S.)-based researchers and Chinese researchers in the areas of allergy, immunology, and infectious diseases including HIV/AIDS and its co-morbidities and co-infections, mental health, and selected neurological disorders.

Due Date: 3/17/2016

Funding: Total Funding: \$3,600,000 Award Ceiling: \$200,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280505>

Agency: Department of Health and Human Services
National Institutes of Health

Program: NHLBI Early Investigator Award (EIA) (R35)

Description: The purpose of the NHLBI Emerging Investigator Award (EIA) is to promote scientific productivity and innovation by providing long-term support and increased flexibility to Program Directors /Principal

Investigators (PDs/PIs) who currently have two NHLBI R01 awards, of which one must be an NHLBI-funded NIH Early Stage Investigator R01 award, and whose outstanding record of research demonstrate their ability to make major contributions to heart, lung, blood and sleep (HLBS) research.

Due Date: 4/15/2018

Funding: Award Ceiling: \$600,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280456>

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

Program: BRAIN Initiative: New Concepts and Early - Stage Research for Large - Scale Recording and Modulation in the Nervous System (R21)

Description: A central goal of the BRAIN Initiative is to understand how electrical and chemical signals code information in neural circuits and give rise to sensations, thoughts, emotions and actions. While currently available technologies can provide some understanding, they may not be sufficient to accomplish this goal. For example, non-invasive technologies are low resolution and/or provide indirect measures such as blood flow, which are imprecise; invasive technologies can provide information at the level of single neurons producing the fundamental biophysical signals, but they can only be applied to tens or hundreds of neurons, out of a total number in the human brain estimated at 85 billion.

Due Date: 3/15/2016

Funding: Total Funding: \$6,000,000 Award Ceiling: \$200,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280507>

Agency: U.S. Department of the Interior
Fish and Wildlife Service

Program: North American Wetlands Conservation Act 2017 U.S. Standard Grants

Description: The U.S. Standard Grants Program is a competitive, matching grants program that supports public-private partnerships carrying out projects in the United States that further the goals of the North American Wetlands Conservation Act. These projects must involve only long-term protection, restoration, enhancement and/or establishment of wetlands and associated uplands habitats for the benefit of all wetlands-associated migratory birds. A 1:1 match is required. Research funding is ineligible. For more information about NAWCA, visit

<http://www.fws.gov/birds/grants/north-american-wetland-conservation-act/standard-grants.php>

Due Date: 2/26/2016

Funding: Total Funding: \$50,000,000 Award Ceiling: \$1,000,000 Award Floor: \$75,001

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280961>

Agency: U.S. Department of the Interior
Bureau of Reclamation

Program: Desalination and Water Purification Research and Development (DWPR)
Fiscal Year 2016 Pilot Projects

Description: Through this Funding Opportunity Announcement (FOA), Reclamation is forming partnerships with private industry, universities, water utilities, and others to address a broad range of desalting and water purification needs. The goal of DWPR is to reduce the costs and environmental impacts of treating impaired and unusable waters. This FOA is intended for pilot projects only. Pilot projects are typically preceded by research studies (funded previously by DWPR or others) that demonstrate that the technology works. They usually involve flow rates above 1 gallon per minute and are tested using natural water sources rather than synthetic or laboratory-made feed water. Pilot projects are used to determine the technical, practical, and economic ability of a process.

Due Date: 2/8/2016

Funding: Total Funding: \$1,600,000 Award Ceiling: \$400,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280552>

Agency: U.S. Department of the Interior
Bureau of Reclamation

Program: Desalination and Water Purification Research and Development (DWPR)
Fiscal Year 2016 Research

Description: Through this Funding Opportunity Announcement (FOA), Reclamation is forming partnerships with private industry, universities, water utilities, and others to address a broad range of desalting and water purification needs. Reclamation is interested in research where the benefits are widespread but where private-sector entities are not able to make the full investment and assume all the risks. Reclamation is also interested in research that has a national significance—where the issues are of large-scale concern and the benefits accrue to a large sector of the public. This FOA is only for

Research and Laboratory Studies. Research studies are typically bench scale studies involving small flow rates less than 2 gallons per minute. They are used to determine the viability of a novel process, new materials, or process modifications. Research at this stage often involves a high degree of risk and uncertainty. Cost share is encouraged, but not required for institutions of higher education.

Due Date: 2/8/2016

Funding: Total Funding: \$1,600,000 Award Ceiling: \$150,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280531>

Agency: U.S. Department of Justice
National Institute of Justice

Program: NIJ FY16 Research on Measurement of Teen Dating Violence

Description: NIJ is seeking proposals for measurement research related to teen dating violence (a.k.a. adolescent relationship abuse). In particular, NIJ is seeking proposals that advance the accurate and developmentally appropriate measurement of dating violence perpetration and victimization among adolescents and young adults.

Due Date: 3/9/2016

Funding: Total Funding: \$500,000 Award Ceiling: \$250,000 Award Floor: \$1,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280482>

Agency: U.S. Department of Justice
Office on Violence Against Women

Program: OVW FY 2016 Grants to Reduce Sexual Assault, Domestic Violence, Dating Violence, and Stalking on Campus Program

Description: This Program encourages a comprehensive coordinated community approach that enhances victim safety, provides services for victims and supports efforts to hold offenders accountable. The funding supports activities that develop and strengthen victim services and strategies to prevent, investigate, respond to and prosecute these crimes. The development of campus-wide coordinated responses involving campus victim service providers, law enforcement officers, health providers, housing officials, administrators, student leaders, faith-based leaders, representatives from student organizations, and disciplinary board members is critical. To be effective, campus responses must also link to local off-campus criminal justice agencies and service providers, including local law enforcement agencies, prosecutors' offices, courts, and

nonprofit, nongovernmental victim advocacy and victim services organizations. Campuses are encouraged to create or revitalize large-scale efforts that treat sexual assault, domestic violence, dating violence, and stalking as serious offenses by adopting policies and protocols, developing victim services and programs that prioritize victim safety, ensuring offender accountability, and implementing effective prevention approaches. Colleges and universities should demonstrate to every student that these crimes will not be tolerated, that perpetrators will face serious consequences, and that holistic services are available for victims

Due Date: 3/3/2016

Funding: Total Funding: \$20,000,000 Award Ceiling: \$750,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280859>

Agency: Naval Surface Warfare Center
NSWC - CRANE

Program: Plasma Combined Mass-Flux and Gas Species Sensor For Hypersonic Combustion Monitoring

Description: Naval Surface Warfare Center, Crane Division is interested in receiving proposals for research aimed at the development of a sensor that utilizes a small contained amount of ionized gas to simultaneously measure mass-flux and gas species in high-speed, high-enthalpy flows that are endemic of hypersonic flight and SCRAM-jet propulsion. The sensor is based on the optical emission properties of a stable glow discharge or plasma. The use of the plasma sensor for mass-flux measurements has already been demonstrated¹. It incorporates a high frequency (1MHz) AC discharge to ionize the gas between two closely spaced electrodes. The voltage drop across the discharge correlates with the time-dependent mass-flux, ρU . With an alternate design, the plasma sensor can also be used to measure static pressure. Recent experiments have examined the use of the plasma sensor for spectral analysis of the optical emission produced by the glow discharge. Results for combustion in both Ethylene and Propane indicate that the plasma sensor produces useful emission lines that can be used to measure temperature, density and possibly gas species. Utilizing the other attributes of the plasma sensor, these optical emission measurements could be performed simultaneously with mass-flux and/or pressure in a combined sensor suite. The proposed research seeks to further develop this capability.

Due Date: 2/29/2016

Funding: Total Funding: see announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281120>

Agency: National Endowment for the Arts
National Endowment for the Arts

Program: NEA Art Works Creativity Connects Projects, FY2017

Description: Grant Program Description Creativity Connects* is an initiative that will show how the arts are central to the country's creativity ecosystem, investigate how support systems for the arts have changed, explore how the arts connect with other industries, and invest in innovative projects to spark new ideas for the arts field. A key component to the Creativity Connects initiative is a pilot grant opportunity in the Art Works category to support partnerships between arts organizations and organizations from non-arts sectors that include, but are not limited to, business, education, environment, faith, finance, food, health, law, science, and technology. Art Works: Creativity Connects grants will seek to benefit the arts and non-arts sectors by:

- Demonstrating the value of working with the arts.
- Supporting the infrastructure for the arts to work in new ways with new sectors.
- Building bridges that create new relationships and constituencies.
- Creating innovative partnership projects to advance common goals.

Due Date: 3/3/2016

Funding: Award Ceiling: \$100,000 Award Floor: \$20,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280553>

Agency: National Science Foundation
National Science Foundation

Program: Ideas Lab: Measuring "Big G" Challenge

Description: The gravitational constant, G , describes the strength of gravitation, the weakest of the four fundamental interactions in nature. Although several hundred measurements of this constant have been performed over the last two and a quarter centuries, recent experiments differ by as much as 0.05%, about 40 times the uncertainty of the most precise experiment. Motivations to resolve the current discrepancy with better measurements are two-fold. First, the search for a theory that unifies gravitation with quantum electrodynamics is an active area of research. Second, understanding the subtleties involved in precisely and absolutely measuring a small force is important for many fields of physics and metrology, including the Casimir effect, spring constants of atomic force microscopy (AFM) cantilever, intermolecular forces in DNA. This solicitation describes an Ideas Lab on "Measuring Big G" Ideas Labs are intensive meetings focused on finding innovative solutions to grand challenge problems. The ultimate aim of this Ideas Lab is to facilitate the

development of new experiments designed to measure Newton gravitational constant G with relative uncertainties approaching or surpassing one part in 100,000. The aspiration is that mixing researchers from diverse scientific backgrounds will engender fresh thinking and innovative approaches that will provide a fertile ground for new ideas on how to measure G that can be used to validate and extend current calculations.

Due Date: 10/26/2016

Funding: Total Funding: \$2,000,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280514>

Agency: National Science Foundation

Program: Integrative Strategies for Understanding Neural and Cognitive Systems

Description: The complexities of brain and behavior pose fundamental questions in many areas of science and engineering, drawing intense interest across a broad spectrum of disciplinary perspectives while eluding explanation by any one of them. Rapid advances within and across disciplines are leading to an increasingly interconnected fabric of theories, models, empirical methods and findings, and educational approaches, opening new opportunities to understand complex aspects of neural and cognitive systems through integrative multidisciplinary approaches. This program calls for innovative, integrative, boundary-crossing proposals that can best capture those opportunities. NSF seeks proposals that are bold, risky, and transcend the perspectives and approaches typical of single-discipline research efforts.

Due Date: 1/26/2016

Funding: Total Funding: \$16,500,000 Award Ceiling: \$1,000,000 Award Floor: \$150,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=279739>

Agency: National Science Foundation

Program: Cybersecurity Innovation for Cyberinfrastructure

Description: Advancements in data-driven scientific research depend on trustworthy and reliable cyberinfrastructure. Researchers rely on a variety of networked technologies and software tools to achieve their scientific goals. These may include local or remote instruments, wireless sensors,

software programs, operating systems, database servers, high-performance computing, large-scale storage, and other critical infrastructure connected by high-speed networking. This complex, distributed, interconnected global cyberinfrastructure ecosystem presents unique cybersecurity challenges. NSF-funded scientific instruments, sensors and equipment are specialized, highly-visible assets that present attractive targets for both unintentional errors and malicious activity; untrustworthy software or a loss of integrity of the data collected by a scientific instrument may mean corrupt, skewed or incomplete results. Furthermore, often data-driven research, e.g., in the medical field or in the social sciences, requires access to private information, and exposure of such data may cause financial, reputational and/or other damage. Therefore, an increasing area of focus for NSF is the development and deployment of hardware and software technologies and techniques to protect research cyberinfrastructure across every stage of the scientific workflow.

Due Date: 4/19/2016

Funding: Total Funding: \$7,000,000 Award Ceiling: \$1,000,000 Award Floor: \$500,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281084>

Agency: National Science Foundation

Program: Petascale Computing Resource Allocations

Description: In 2013, a new NSF-funded petascale computing system, Blue Waters, was deployed at the University of Illinois at Urbana-Champaign. The goal of this project and system is to open up new possibilities in science and engineering by providing computational capability that makes it possible for investigators to tackle much larger and more complex research challenges across a wide spectrum of domains. The purpose of this solicitation is to invite research groups to submit requests for allocations of resources on the Blue Waters system. Proposers must show compelling science or engineering challenges that require petascale computing resources. Proposers must also be prepared to demonstrate that they have science or engineering research problems that require and can effectively exploit the petascale computing capabilities offered by Blue Waters. Proposals from or including junior researchers are encouraged, as one of the goals of this solicitation is to build a community capable of using petascale computing.

Due Date: 4/4/2016

Funding: Total Funding: \$500,000 Award Floor: \$40,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280823>

Agency: National Science Foundation

Program: STEM + Computing Partnerships

Description: The STEM+Computing Partnerships program seeks to significantly enhance the learning and teaching of science, technology, engineering, mathematics (STEM), and computing by K-12 students and teachers through research on, and development of, courses, curriculum, course materials, pedagogies, instructional strategies, models, or pedagogical environments that innovatively integrate computing into one or more other STEM disciplines, or integrate STEM content into the teaching and learning of computing. In addition, STEM+C seeks to build capacity in K-12 computing education with foundational research and focused teacher preparation. Projects in the STEM+C program should build on research in STEM education and prior research and development efforts that provide theoretical and empirical justification for proposed projects. The program offers proposers two tracks: (1) Integration of Computing in STEM Education and (2) Computing Education Knowledge and Capacity Building. The second track is discipline-specific and may be expanded to include additional disciplines in future releases of the solicitation.

Due Date: 3/28/2016

Funding: Total Funding: \$47,000,000 Award Ceiling: \$2,500,000 Award Floor: \$250,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280779>

Agency: National Science Foundation

Program: Genealogy of Life

Description: The goals of the Genealogy of Life (GoLife) program are to resolve the phylogenetic history of all life's diverse forms and to integrate this genealogical architecture with underlying organismal and environmental data. The ultimate vision of this program is an open access, comprehensive Genealogy of Life that will enable the comparative framework necessary for testing questions in systematics, evolutionary biology, ecology, paleontology, and other fields. Strategic integration of this genealogy of life with data layers from genomic, phenotypic, spatial, ecological, geological, and temporal data will produce an extensive synthesis of biodiversity and evolutionary sciences. The resulting knowledge infrastructure will enable synthetic research on biological

dynamics throughout the history of life on Earth, within current ecosystems, and for predictive modeling of the future evolution of life. Projects submitted to this program should emphasize increased efficiency in contributing to a complete Genealogy of Life and strategic integration of various types of organismal and environmental data with phylogenies.

Due Date: 3/23/2016

Funding: Total Funding: \$10,000,000 Award Ceiling: \$2,500,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280618>

Agency: U.S. Department of Treasury
U.S. Dept. of Treasury RESTORE Act Program

Program: RESTORE Act Centers of Excellence Research Grants Program

Description: The Gulf Coast Restoration Trust Fund was established in the Treasury of the United States. Eighty percent of the civil penalties paid after July 6, 2012, under the Federal Water Pollution Control Act in connection with the Deepwater Horizon oil spill will be deposited into the Trust Fund and invested. The RESTORE Act created five components through which funds will be disbursed. Treasury is publishing multiple funding opportunity notices as part of the RESTORE Act. Funds may be used by those Centers of Excellence to conduct research only on the Gulf Coast region in one or more of the following disciplines: 1. Coastal and deltaic sustainability, restoration and protection, including solutions and technology that allow citizens to live in a safe and sustainable manner in a coastal delta in the Gulf Coast Region; 2. Coastal fisheries and wildlife ecosystem research and monitoring in the Gulf Coast Region; 3. Offshore energy development, including research and technology to improve the sustainable and safe development of energy resources in the Gulf of Mexico; 4. Sustainable and resilient growth, economic and commercial development in the Gulf Coast Region; and 5. Comprehensive observation, monitoring, and mapping of the Gulf of Mexico.

Due Date: 3/31/2016

Funding: Award Ceiling: \$4,111,715 Award Floor: \$3,148,837

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280830>

Agency: U.S. Department of State
Bureau of Democracy, Human Rights and Labor

Program: Bureau of Democracy, Human Rights and Labor: Programs Fostering Civil, Political, and Labor Rights in Cuba FY16

Description: The Bureau of Democracy, Human Rights and Labor (DRL) announces a Request for Statements of Interest (RSOI) from organizations interested in submitting Statements of Interest (SOI) outlining project concepts and that have capacity to manage projects that will foster civil, political, and labor rights in Cuba.

Due Date: 2/5/2016

Funding: Award Ceiling: \$2,000,000 Award Floor: \$500,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280842>

Agency: United States Department of Veteran Affairs
VA Loan Guaranty Service

Program: Specially Adapted Housing Assistive Technology Grant

Description: The Loan Guaranty Service (LGY), which is an office of the Veterans Benefits Administration (VBA), Department of Veterans Affairs (VA), is announcing the availability of funds for the SAHAT Grant Program. The objective of the grant is to encourage the development of new assistive technologies for specially adapted housing. The Department of Veterans Affairs acknowledges there are many emerging technologies that could improve home adaptations or otherwise enhance a Veteran's or Servicemember's ability to live independently. Therefore, VA has defined "new assistive technology" as an advancement that the Secretary determines could aid or enhance the ability of a Veteran or Servicemember to live in an adapted home.

Due Date: 2/29/2016

Funding: Total Funding: \$1,000,000 Award Ceiling: \$200,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280097>