

# THE STATE UNIVERSITY SYSTEM OF FLORIDA

## WASHINGTON E-UPDATE

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***Budget and Appropriations Update*** -- Despite some major challenges, a House-Senate conference committee agreed April 29 on a so-called “budget resolution” (H Con Res 27, S Con Res 11) that sets spending and legislative parameters for fiscal year 2016 and lays out a budget vision for the next decade. Successful House and Senate votes are expected by the end of next week.

The budget blueprint will set the table for a GOP effort to use a legislative mechanism, called budget reconciliation, to repeal and replace the Affordable Care Act later in the year. Once adopted, the fiscal blueprint also could lead to negotiations between Congress and the White House over a second budget deal to raise statutory discretionary spending caps for a third-straight year.

The primary stumbling block in negotiations had been a dispute over language in the Senate budget restricting the use of “CHIMPs,” or Changes in Mandatory Programs, a maneuver that allows reductions in mandatory spending to pay for higher discretionary spending in appropriations bills. The tactic has been criticized as a gimmick that does not produce real savings.

The House and Senate budgets are similar in that they reflect the statutory post-sequester limits on discretionary spending for fiscal 2016 — \$523 billion for defense and \$493.5 billion for non-defense programs. In order to satisfy lawmakers who demanded higher military spending, the budgets allow for \$96 billion in war-related spending, \$38 billion more than the president requested for “overseas contingency operations” — an account that does not count against the budget caps.

On the appropriations front, House and Senate Democrats say they plan to vote against any and all spending bills so long as spending caps and the threat of sequestration remain in place. And President Obama has said he will oppose all the appropriations bills until an agreement is reached to provide relief from the caps.

Nevertheless, while the budget resolution voting has played out, the House appropriations committee has been busy preparing spending bills for floor consideration. On April 28, the House Rules committee cleared the way for a \$76.1 billion fiscal 2016 spending bill for Military Construction-VA and an Energy-Water appropriations bill, the first fiscal 2016 appropriations bills that the House will take up this year. The White House has already issued veto threats for both bills. See next article for details on the bills.

## **Energy Department science programs and VA medical research funded in initial House appropriations bills for Fiscal 2016**

Following approval by the House Appropriations Committee April 22 the first two Fiscal 2016 spending bills quickly moved to the House floor for consideration April 29. The two bills are: [Military Construction-VA](#), and [Energy and Water](#). A third bill, [Transportation-HUD](#) was also marked up by the subcommittee.

The VA bill carries \$606 million for medical and prosthetic research and continues to prioritize collaborations between VA health care facilities and medical schools. The bill contains language addressing PTSD, TBI, suicide, mental health and other concerns for veterans.

The Energy and Water bill provides annual funding for national defense nuclear weapons activities, the Army Corps of Engineers, various programs under the Department of Energy, and other related agencies. The bill totals \$35.4 billion -- \$1.2 billion above the fiscal year 2015 enacted level and \$633 million below the President's request.

The legislation provides \$29 billion for Energy Department programs and activities, \$1.1 billion (4 percent) more than current funding but \$1.5 billion (5 percent) less than the administration requested.

The bill includes \$5.1 billion for research programs under the Energy Department's Office of Science - an increase of \$29 million above the fiscal year 2015 enacted level. This funding is intended to strengthen the nation's science and technology innovation by supporting basic energy research, development of high-performance computing systems, and research into the next generation of clean energy sources. Research and development to advance coal, natural gas, oil, and other fossil energy technologies are funded at \$605 million -- an increase of \$34 million above the fiscal year 2015 enacted level. In addition, funding for nuclear energy research, development, and demonstration activities is increased by \$23 million, for a total funding level of \$936 million. Renewable energy programs, which are funded at \$1.7 billion in the bill, are cut by \$279 million from last year's enacted level.

Language in the measure encourages the Department to continue to develop and broaden partnerships with minority serving institutions, including Historically Black Colleges and Universities (HBCUs) and to support Highly Integrated Photonics to accelerate computing research.

The bill provides \$1.57 billion for Basic Energy Sciences and includes \$97.8 million for the Energy Frontier Research Centers program. The Advanced Research Projects Agency – Energy (APRA-E) would be level funded at \$280 million.

In work related to the multi agency BRAIN Initiative, the bill encourages the Department to work with the National Science Foundation and the National Institutes of Health on a national brain observatory to leverage its high performance computing capabilities to advance a deeper understanding of the brain and how it works.

## **New campus assault bill introduced in both chambers**

A new version of the Campus Accountability and Safety Act (CASA) (S. 590) has been introduced in the Senate along with an identical companion bill in the House (HR 1310.)

The Senate bill has 25 cosponsors, including Florida's Senator Rubio, and has been referred to the Senate HELP Committee which has jurisdiction over higher education.

The legislation is based on an earlier version introduced in the previous Congress by the same sponsors, although it has been revised based on comments received. It would:

- Establish certain campus resources and support services for student survivors. Schools would be required to designate Confidential Advisors to assist survivors of sexual harassment, domestic violence, dating violence, sexual assault and stalking.
- Ensure that university staff meet minimum training standards to address sexual assault cases
- Create transparency requirements to provide students, parents and officials with information on the problem, and how campuses are addressing it. Students at every university will be surveyed about their experience with sexual violence. This new biannual survey will be standardized and anonymous, with the results published online.
- Require a uniform student disciplinary process across campuses, and coordination with law enforcement. All schools would be required to use one uniform process for campus student disciplinary proceedings and may no longer allow athletic departments or other subgroups to handle complaints. Schools would provide written notification to the accused as well as the victim of any decision to move forward with a campus disciplinary proceeding within 24 hours of that decision. The notice must include details of the complaint, a summary of the disciplinary proceeding and the rights and due process protections available to both parties.
- Establish Title IX penalties and stiffer penalties for Clery Act violations. Schools that do not comply with certain requirements under the bill may face a penalty of up to 1 percent of the institution's operating budget. The bill increases penalties for Clery Act violations to up to \$150,000 per violation from the current penalty of \$35,000. Financial penalties collected from universities in violation will be distributed back to campuses through a new competitive grant program, administered by the Education Department, for which universities could apply to conduct research on best practices for preventing and responding to sexual harassment, sexual assault, domestic violence, dating violence and stalking on college campuses. To read the bill [click here](#).

## **Congress completes action on Medicare SGR “repeal and replace” bill**

In a stunning bipartisan accomplishment for Congress, the Senate voted overwhelmingly April 14 (92-8) to pass legislation repealing the Medicare sustainable growth rate, or SGR, formula for provider reimbursement and replace it with a new long-term plan at a cost of \$174.5 billion over the next decade. The *Medicare Access and CHIP Reauthorization Act (HR 2)* had been approved by the House in late March by a vote of 392 to 37 following two years of bicameral and bipartisan negotiations – and pressure from health and medical groups. The new measure will:

- Repeal the SGR and institute a 0.5% payment update each year for five years.
- Change the fee-for-service system by streamlining Medicare’s existing web of quality programs into one value-based performance program.
- Incentivize the use of alternative payment models to encourage doctors and providers to focus more on coordination and prevention to improve quality and reduce costs.

Under the alternative pay models, providers participating in Accountable Care Organizations or Medical Homes would receive a 5 percent bonus from Medicare. To get the bonus, providers would have to receive at least one quarter of their Medicare revenue from alternate pay models in 2018 and 2019. The bill also adds an incentive for private-payer alternative pay models.

The legislation also carried unrelated health provisions that were costly but necessary to prevent service disruptions at the end of September. Thus, the bill extends funding for two years for the Children’s Health Insurance Program, the National Health Service Corps and Community Health Centers. To partially pay for the cost of the legislation, the bill will raise rates for wealthier seniors for their Medicare outpatient visits and prescription drug costs under Part D.

Enacted by Congress in the *Balanced Budget Act of 1997*, the SGR formula went into effect in 2002 with pay cuts and was subsequently stopped by 17 annual, short-term legislative “patches” to prevent further cuts to physician and hospital reimbursement fees. Read the complete bill online [here](#). Read a section-by-section online [here](#). Read a one-page summary [here](#).

## **Senate Committee approves bipartisan ESEA rewrite**

The Senate HELP Committee unanimously passed its new ESEA bill April 16, “The Every Child Achieves Act of 2015,” a rewrite of the No Child Left Behind law with all 22 Democrats and Republicans voting to send the bill to the floor.

HELP Committee Chairman Lamar Alexander (R-TN) worked closely with Ranking Member Patty Murray (D-WA) for many months to negotiate a compromise bill that could be supported by member of both parties. The two Senators announced a bipartisan agreement April 7 for their legislation revamping the NCLB law which expired

in 2007. The committee's approach bodes well for the next Higher Education Act Reauthorization which will be on the education agenda once this bill is completed.

The baseline bill was adopted along with 29 amendments (25 from Democrats). Several Senators will attempt amendments on the floor when it is considered, especially on "hold harmless" provisions for teacher training grants which are eliminated in the bill, whether Title 1 funds should follow children as they move to other schools and how regulations should address protection of LGBT students. Three key amendments adopted in the committee markup are to [help ensure that military-connected children are succeeding in school](#), an amendment to [help schools and communities in the aftermath of violent or traumatic events](#), and an amendment to [improve and expand early learning programs](#).

Click [here](#) for the legislative draft or [here](#) for a summary of the bill. A Senate Health, Education, Labor and Pensions Committee fact sheet identifies the main provisions of the bill:

- **“Strengthens state and local control:** The bill recognizes that states, working with school districts, teachers, and others, have the responsibility for creating accountability systems to ensure all students are learning and prepared for success. These accountability systems will be state-designed but must meet minimum federal parameters, including ensuring all students and subgroups of students are included in the accountability system, disaggregating student achievement data, and establishing challenging academic standards for all students. The federal government is prohibited from determining or approving state standards.
- **Maintains important information for parents, teachers, and communities:** The bill maintains the federally required two tests in reading and math per child per year in grades 3 through 8 and once in high school, as well as science tests given three times between grades 3 and 12. These important measures of student achievement ensure that parents know how their children are performing and help teachers support students who are struggling to meet state standards. A pilot program will allow states additional flexibility to experiment with innovative assessment systems within states. The bill also maintains annual reporting of disaggregated data of groups of children, which provides valuable information about whether all students are achieving, including low-income students, students of color, students with disabilities, and English learners.
- **Ends federal test-based accountability:** The bill ends the federal test-based accountability system of No Child Left Behind, restoring to states the responsibility for determining how to use federally required tests for accountability purposes. States must include these tests in their accountability systems, but will be able to determine the weight of those tests in their systems. States will also be required to include graduation rates, a measure of postsecondary and workforce readiness, English

proficiency for English learners. States will also be permitted to include other measures of student and school performance in their accountability systems in order to provide teachers, parents, and other stakeholders with a more accurate determination of school performance.

- **Maintains important protections for federal taxpayer dollars:** The bill maintains important fiscal protections of federal dollars, including maintenance of effort requirements, which help ensure that federal dollars supplement state and local education dollars, with additional flexibility for school districts in meeting those requirements.
- **Helps states fix the lowest-performing schools:** The bill includes federal grants to states and school districts to help improve low performing schools that are identified by the state accountability systems. School districts will be responsible for designing evidence-based interventions for low performing schools, with technical assistance from the states, and the federal government is prohibited from mandating, prescribing, or defining the specific steps school districts and states must take to improve those schools.
- **Helps states support teachers:** The bill provides resources to states and school districts to implement activities to support teachers, principals, and other educators, including allowable uses of funds for high quality induction programs for new teachers, ongoing rigorous professional development opportunities for teachers, and programs to recruit new educators to the profession. The bill allows, but does not require, states to develop and implement teacher evaluation systems.
- **Reaffirms the states' role in determining education standards:** The bill affirms that states decide what academic standards they will adopt, without interference from Washington, D.C. The federal government may not mandate or incentivize states to adopt or maintain any particular set of standards, including Common Core. States will be free to decide what academic standards they will maintain in their states.”

## House version of COMPETES bill approved in committee

Having been introduced the week before, a new America Competes Reauthorization Act (HR 1806) was approved April 22 by a party line vote of 19 to 16 in the House Science, Space and Technology Committee. Multiple Democratic amendments were also defeated in partisan voting. The Republican leadership plans to bring the bill to the House floor in mid-May.

Democrats on the committee complained that they had not been consulted or involved in developing the 189-page bill especially since multiple items in it are controversial in

the science community. Ranking Member Eddie Bernice Johnson (D-TX) called the bill the product of combining “two bad bills from last year...into one doubly bad bill.” During the course of the debate, Chairman Lamar Smith (R-TX) agreed to two minor changes: dropping restrictive bill language on NSF’s management of large scientific facilities, and restoring a \$500,000 cut to the National Science Board budget.

Under the bill, authorization levels would grow by 4 percent at NSF, 8 percent at NIST and 5 percent at the Energy Department Office of Science. However, those gains would be offset by cuts to the Office of Energy Efficiency and Renewable Energy at DOE.

Section 106 of the bill carries a recently negotiated policy statement on the peer review system at NSF. Overall, the agency would be authorized at \$7.6 billion in 2016, an increase of \$253 million over current funding levels. Consistent with earlier work by the Committee – and opposed by the scientific community -- funding in the bill is specified for individual directorates. Biology, computing, engineering, and math and physical sciences would receive a collective boost of \$100 million. Education would lose \$100 million, geosciences \$165 million and social and behavioral sciences would lose \$140 million if this language is enacted.

Another new responsibility would be given to NSF by the committee: that of evaluating scientific research programs undertaken by other federal agencies and correlating “the Foundation’s scientific research with that undertaken by individuals and by public and private research groups.” (Section 102, page 11 of the bill.)

The budget for NIST would be increased to \$934 million, with science and technical programs set at \$745 million, a \$69 million increase.

The DoE Office of Science would receive \$5.34 billion, a 5.4 percent increase. Basic energy sciences would increase 6.7 percent to \$1.85 billion, high-energy physics would receive nearly a 3 percent increase to \$788 million, nuclear physics would go up 4.9 percent to \$625 million and advanced computing programs would rise 15 percent to \$621 million. Fusion research would receive a \$20 million boost to \$488 million.

However, the Office of Biological and Environmental Research would be cut 7 percent to \$550 million. Language is included to prevent the office from undertaking any new climate science research unless it can show that it does not duplicate work being performed by other agencies.

The Office of Energy Efficiency and Renewable Energy would be cut by more than half to \$1.2 billion, as would the Advanced Research Projects Agency – Energy (ARPA-E) with that program going from \$280 million in appropriations currently to \$140 million.

The bill also calls for Light Source Leadership Initiative as well as a study on building and operating light sources for materials research. (Section 502, page 106 of the bill.)

To read the bill, [click here](#).

## Updated draft released for comprehensive 21<sup>st</sup> Century Cures bill

A second, updated legislative draft of the 21<sup>st</sup> Century Cures bill was released April 29 on a bipartisan basis by leaders of the House Energy and Commerce Committee, with jurisdiction over NIH, FDA, CMS and other health agencies. The Committee also held a hearing April 30 on the bill with officials from NIH and FDA.

The 200-page bill (cut down from 400 pages initially) would affect policies and programs at the agencies, formally incorporate patients into the drug development and regulatory process and change medical device regulations. Perhaps the biggest surprise is the inclusion of language to provide the NIH with \$10 billion in mandatory or automatic funding over five years at \$2 billion per year. The provision however, is not paid for with a spending offset in the current version of the bill, as the Committee requires.

The draft does not have complete bipartisan support yet and Members will continue to negotiate in coming months on the third section of the bill that covers medical device regulation and process.

The discussion draft includes provisions to:

- Incorporate the patient perspective in the discovery, development, and delivery process.
- Increase funding for the National Institutes of Health, both through reauthorization and \$10 billion over five years in mandatory funding, starting in FY 2016.
- Foster development of treatments for patients facing serious or life-threatening diseases.
- Repurpose drugs for serious or life-threatening diseases and conditions.
- Modernize clinical trials.
- Break down barriers to increased collaboration and data sharing among patients, researchers, providers, and innovators.
- Help the development of personalized and precision medicines so the right patient can receive the right treatment at the right time.
- Provide for continued work in the telehealth space.
- Advance a truly interoperable health care system.
- Provide clarity for developers of software products used in health management and medical care.

The draft legislative text is available online [here](#). A complete section-by-section summary of the discussion draft is available online [here](#). A one-page summary is available online [here](#).

## Senate hearing covers defense innovation and research

The Fiscal 2016 budget request for defense innovation and research was reviewed in a hearing by the Senate Defense Appropriations Subcommittee April 22. The hearing featured testimony by DoD Under Secretary for Acquisition, Technology & Logistics



Frank Kendall, DARPA Deputy Director Steven Walker, and Principal Deputy Secretary for Research & Engineering.

The three witnesses submitted a 14-page statement on the department's efforts in key areas. To read the document, [click here](#). The paper covers the Better Buying Power program at DoD, the Research and Engineering Strategy, the Defense Innovation Initiative, DARPA target programs, and investments in the RDT&E budget accounts, which have been in decline.

Committee Members at the hearing highlighted the general decline in funding for defense science and technology. Senator Dick Durbin (D-IL), among others, warned against growing complacent during a time when many other nations are surging forward and investing heavily in defense technology. Another threat, sequestration, was highlighted by Secretary Kendall as being extremely dangerous.

Senator Moran (R-KS) expressed his hope that the Better Buying Power effort would help spur innovation in the area of science and technology and allow for adjustment to changes in threats. The committee also touched on assessing the productivity of independent corporations' research and development.

Dr. Walker discussed the key role that DARPA plays in regards to innovation and research. He said DARPA projects are an early pivotal investment in science and technology that drive the DoD forward. According to Dr. Walker, DARPA and its programs can lay the foundation for technological superiority in the future.

DoD pointed to cybersecurity as a key vulnerability for the nation. DARPA has ramped up its research on cybersecurity in response to the growing threat of cyber espionage. The DoD witnesses advocated for increased awareness, highlighting the especially high vulnerability of unclassified material. To watch a video of the hearing, [click here](#).

## **DoD updates cyber strategy**

A new, updated cyber strategy by the Department of Defense was released by Secretary Ash Carter April 23 during a speech at Stanford University.

The strategy sets five strategic goals and establishes specific objectives for DoD to achieve over the next five years. Officials want the new strategy to guide development of DoD's cyber forces and strengthen its cyber defense and cyber deterrence posture.

The document focuses on building cyber capabilities and organizations for DoD's three cyber missions: defending networks, systems and information; defending the homeland and U.S. national interests against cyberattacks of significant consequence; and providing integrated cyber capabilities to support military operations and contingency plans. The department's original strategy document was developed in 2011. To read more: [Department of Defense Cyber Strategy](#)  
[Cyber Strategy Fact Sheet](#)

## Federal Reserve report: Does College Matter?

The new Federal Reserve Bank of San Francisco annual report is titled “Does College Matter?” Fed President John Williams has an extensive essay with information providing “irrefutable data that investing in education is crucial to economic success.” Click [here for the full report](#). Also, the Hamilton Project released [Increasing Education: What it Will and Will Not Do for Earnings and Earnings Inequality](#) simulating what would happen to the distribution of earnings if one out of every ten men aged 25–64 who did not have a bachelor’s degree were to instantly obtain one.

## Highlights of competitive grant opportunities at federal agencies

**Agency:** Department of Defense

National Geospatial Intelligence Agency

**Program:** National Geospatial-Intelligence Agency Academic Research Program:  
Broad Agency Announcement

**Description:** NGA welcomes all innovative ideas for path-breaking research that may advance the GEOINT mission to provide timely, relevant, and accurate geospatial intelligence (GEOINT) in support of national security objectives. GEOINT is the exploitation and analysis of imagery and geospatial information to describe, assess, and visually depict physical features and geographically referenced activities on the Earth. GEOINT consists of imagery, imagery intelligence, and geospatial information. NGA offers a variety of critical GEOINT products in support of U.S. national security objectives and Federal disaster relief, including aeronautical, geodesy, hydrographic, imagery, geospatial and topographical information. The NGA Academic Research Program (NARP) is focused on innovative, far-reaching basic and applied research in science, technology, engineering and mathematics having the potential to advance the GEOINT mission. The objective of the NARP is to support innovative, high-payoff research that provides the basis for revolutionary progress in areas of science and technology affecting the needs and mission of NGA. This research also supports the National System for Geospatial Intelligence (NSG), which is the combination of technology, systems and organizations that gather, produce, distribute and consume geospatial data and information. This research is aimed at advancing GEOINT capabilities by improving analytical methods, enhancing and expanding systems capabilities, and leveraging resources for common NSG goals. The NARP also seeks to improve education in scientific, mathematics, and engineering skills necessary to advance GEOINT capabilities. It is NGA’s intent to solicit fundamental research under this BAA.

**Due Date:** 9/30/2017

**Funding:** Total Funding: \$7,200,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=254129>

**Agency:** Department of Defense

**Program:** Missile Defense Agency STEM Outreach BEST Robotics Grant

**Description:** MDA Science, Technology, Engineering, and Mathematics (STEM) Outreach Missile Defense Agency (MDA) Science, Technology, Engineering, and Mathematics (STEM) Outreach's goal is to increase the awareness of K-12 and college students to Science, Technology, Engineering, and Mathematics (STEM), in order to enhance the number of U.S. scientists and engineers capable of solving future Missile Defense challenges in the Government, industry, and academia.

**Due Date:** 5/1/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275852>

**Agency:** Department of Defense

Dept of the Army- Materiel Command

**Program:** Defense Forensics and Biometrics Agency (DFBA) BAA for Basic, Applied

**Description:** The Program aims to enhance the capability of forensic science and biometric applications for DoD customers both in traditional law enforcement/criminal justice purviews and in expeditionary environments. The Program accomplishes this mission by funding research projects that lead to the production of useful knowledge, materials, devices, systems, or methods that have forensic or biometric function. The Program also supports the Armed Forces Medical Examiner System (AFMES), Department of Defense Cyber Crime Center (DC3), and Joint POW/MIA (Prisoner of War/Missing in Action) Accounting Command Central Identification Laboratory (JPAC – CIL). The Program is seeking proposals for funding to support forensic and biometric research and its application.

**Due Date:** 6/30/2015

**Funding:** Total Funding: \$5,000,000; Award Ceiling: \$500,000`

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=237676>

**Agency:** Department of Defense

Engineer Research and Development Center

**Program:** 2015 Science, Technology, Engineering, and Mathematics (STEM) Broad Agency Announcement

**Description:** The U.S. Army Engineer Research and Development Center (ERDC) seeks proposals under authority of the National Defense Education Act (1959) and under the Pre-Engineering Program (PEP) to stimulate young pupils in the sciences, technology, engineering and mathematics(STEM).

**Due Date:** 1/31/2016

**Funding:** Award Ceiling: \$30,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=272250>

**Agency:** Department of Education

**Program:** Centers of Excellence for Veteran Student Success

**Description:** The purpose of this program is to encourage institutions of higher education (IHEs) to develop model programs to support veteran student success in postsecondary education by coordinating services to address the academic, financial, physical, and social needs of veteran students.

**Due Date:** 6/23/2015

**Funding:** Total Funding: \$4,950,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276105>

**Agency:** Department of Education

**Program:** Disability and Rehabilitation Research Projects Program

**Description:** The purpose of the Disability and Rehabilitation Research Projects and Centers Program is to plan and conduct research, demonstration projects, training, and related activities, including international activities to develop methods, procedures, and rehabilitation technology. The Program's activities are designed to 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, and to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended (Rehabilitation Act). Disability and Rehabilitation Research Projects (DRRPs) The purpose of DRRPs, which are under NIDILRR's Disability and Rehabilitation Research Projects and Centers Program, is to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended, 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 severe disabilities.

**Due Date:** 6/23/2015

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276108>

**Agency:** Department of Education

**Program:** Institute of Education Sciences Education Research

**Description:** The Institute's purpose in awarding these grants is to provide national leadership in expanding fundamental knowledge and understanding of (1) developmental and school readiness outcomes for infants and toddlers with or at risk for disability, and (2) education outcomes for all students from early childhood education through postsecondary and adult education. The central purpose of the Institute's research grant programs is to provide interested individuals and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. The Institute will conduct eight research competitions in FY 2016 through two of its centers: The Institute's National Center for Education Research (NCER) will hold six competitions: one competition for education research, one competition for education research training, one competition for education research and development centers, one competition for statistical and research methodology in education, one competition for partnerships and collaborations focused on problems of practice or policy, and one competition for research networks. The Institute's National Center for Special Education Research (NCSER) will hold two competitions: one competition for special education research and one competition for special education research training.

**Due Date:** 8/7/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275863>

**Agency:** Department of Education

**Program:** Education Research and Development Center Program

**Description:** The Institute of Education Sciences announces the FY 2016 competitions for grants to support education research and special education research. The Institute's purpose in awarding these grants is to provide national leadership in expanding fundamental knowledge and understanding of (1) developmental and school readiness outcomes for infants and toddlers with or at risk for disability, and (2) education outcomes for all students

from early childhood education through postsecondary and adult education. Purpose of Program: The central purpose of the Institute's research grant programs is to provide interested individuals and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students.

**Due Date:** 8/20/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275899>

**Agency:** Department of Energy  
National Energy Technology Laboratory

**Program:** University Coalition for Fossil Energy Research

**Description:** The objective of this Funding Opportunity Announcement is to establish and administer a University Coalition for Basic and Applied Fossil Energy Research and Development. This includes establishing an initial, technically sound base membership and providing a mechanism for flexible addition of new members in the future. The Coalition will be operated by a fully accredited U.S. college or university, or group of universities, with the majority of the Research and Development funds to be utilized by university and academic members to perform basic and applied fossil energy related research projects.

**Due Date:** 6/8/2015

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275772>

**Agency:** Department of Energy

**Program:** Nuclear Energy University Programs- Fellowship and Scholarship

**Description:** This program supports education and training for future nuclear scientists, engineers and policy-makers who are attending U.S. universities and colleges in nuclear-related graduate, undergraduate and two-year study programs. These are zero-dollar awards that will be funded as students apply through the Department of Energy, Office of Nuclear Energy.

**Due Date:** 11/30/2015

**Funding:** Award Ceiling: \$155,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=209433>

**Agency:** Department of Energy

**Program:** Innovative Development in Energy-Related Applied Science

**Description:** The broad objective of this program is to identify disruptive concepts in energy-related technologies that challenge the status quo and represent a leap beyond today's technology. An innovative concept alone is not enough; the idea must also have the potential to be impactful—meaning that, if successful, it represents a fundamentally new paradigm in energy technology with the potential to make a significant impact on ARPA-E's Mission Areas (see Section I.A). Concepts of particular interest have the potential to achieve percentage-level reductions in U.S. energy consumption, energy-related imports, or greenhouse gas emissions.

**Due Date:** 9/28/2015

**Funding:** Total Funding: \$10,000,000; Award Ceiling: \$5000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=263428>

**Agency:** Department of Energy

National Energy Technology Laboratory

**Program:** Intelligent Monitoring Systems and Advanced Well Integrity and Mitigation

**Description:** The purpose of this FOA is to competitively solicit and award R&D projects that will meet the following Objectives: (1) advancing Intelligent Monitoring Systems (IMS) for monitoring, controlling, and optimizing CO<sub>2</sub> injection operations. The implementation of a CCS-specific IMS should result in more efficient use of pore space, but also reduce the potential risk and provide mitigation options in real-time for Carbon Storage. And (2) advance diagnostic tools and methods capable of characterizing borehole leakage pathways or fluid flow in existing wells, and advance next-generation materials and methods for mitigating wellbore leakage.

**Due Date:** 5/25/2015

**Funding:** Total Funding: \$11,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275407>

**Agency:** Department of Health and Human Services

Centers for Disease Control and Prevention

**Program:** Community Health Projects Related to Contamination at Brownfield/Land Reuse Sites

**Description:** The ATSDR Community Health Projects (CHP) Related to Contamination at Brownfield/Land Reuse Sites purpose is to increase responsive public

health actions by promoting healthy and safe environments and preventing harmful exposures related to contamination at Brownfield/Land Reuse Sites. Brownfields are defined by the U.S. Environmental Protection Agency (EPA) as "property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant". Land reuse site is any property that is being redeveloped for a different purpose from their former use. EPA estimates that there are over 450,000 Brownfield sites in the United States. Addressing public health concerns and issues associated with restoration of contaminated properties is essential. ATSDR's mission is to serve the public through responsive public health actions to promote healthy and safe environments and prevent harmful exposures. Sites such as Brownfield/Land Reuse sites may have potentially harmful exposures from contamination from previous site uses. Community health projects that address impacts of contamination at Brownfield/Land Reuse sites further ATSDR's public health mission to promote healthy and safe environments and prevent harmful exposures.

**Due Date:** 6/22/2015

**Funding:** Total Funding: \$600,000; Award Ceiling: \$150,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276067>

**Agency:** Department of Health and Human Services  
Administration for Children and Families

**Program:** Assets for Independence Demonstration Program

**Description:** The Administration for Children and Families (ACF) Office of Community Services (OCS) will be accepting applications for grants to administer projects for the Assets for Independence (AFI) demonstration program. AFI grantees administer projects that provide individual development accounts (IDAs) and related services to low-income individuals. Participants open an IDA and save earned income that is matched by project funds. The combined participant savings and project matching funds will be used for an allowable asset: a first home, a business, or post-secondary education or training. Projects also assist participants in obtaining the skills and information necessary to achieve economic self-sufficiency. Grantees are encouraged to tailor the strategies and services they offer to the needs of their project participants and the opportunities in their community.

**Due Date:** 6/15/2015

**Funding:** Total Funding: \$11,250,000; Award Ceiling: \$1,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275744>



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

**Program:** Secondary Analyses in Obesity, Diabetes and Digestive and Kidney Diseases

**Description:** This program encourages R21 applications that propose to conduct secondary analyses of existing data sets relevant to diabetes and selected endocrine and metabolic diseases including thyroid, parathyroid and Cushing's diseases and acromegaly; and genetic metabolic disease including cystic fibrosis, lysosomal storage diseases, and disorders of the urea cycle, amino acid metabolism and metal transport where the focus is on peripheral metabolism or organ function; obesity, liver diseases, alimentary GI tract diseases and nutrition; kidney, urologic, and hematologic diseases.

**Due Date:** 5/7/2018

**Funding:** Award Ceiling: \$200,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275615>

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

**Program:** Pilot and Feasibility Clinical Trials in Diabetes, and Endocrine and Metabolic Diseases

**Description:** This program encourages the submission of pilot and feasibility trials conducted in humans that will lay the foundation for larger clinical trials related to the prevention and/or treatment of diabetes or selected endocrine and genetic metabolic diseases within the mission of NIDDK. The program will support short-term clinical trials in humans to acquire preliminary data and/or refine power calculations that would lead to a larger, more definitive study impacting clinical care or health outcomes.

**Due Date:** 5/7/2018

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275675>

**Agency:** Department of Health and Human Services  
Agency for Health Care Research and Quality

**Program:** Understanding and Improving Diagnostic Safety in Ambulatory Care: Incidence and Contributing Factors

**Description:** Despite the growing interest and rapid pace of recent achievements, not much is known with a high degree of confidence about the prevalence of diagnostic failure in its various manifestations. This program solicits applications from research institutions and their investigators to conduct Health Services Research Projects to gain a better understanding of the complexity and incidence of diagnostic failure and its associated costs and harms.

**Due Date:** 11/5/2018

**Funding:** Award Ceiling: \$350,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275726>

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

**Program:** Tobacco Regulatory Research on Tobacco Flavors and Flavorings

**Description:** The purpose of this funding opportunity is to generate data related to flavors and flavorings in cigarettes, cigars (including little cigars and cigarillos), and e-cigarettes.

**Due Date:** 5/29/2015

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275775>

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

**Program:** HIV Vaccine Research and Design (HIVRAD) Program

**Description:** The HIV Vaccine Research and Design (HIVRAD) program is designed to fund projects that further address hypotheses crucial to the design of an efficacious HIV/AIDS prophylactic vaccine. Applications for five years of support should include plans that have advanced past the exploratory stage and include preliminary data. Less fully developed applications can request less than 5 years of support to establish feasibility.

**Due Date:** 7/14/2017

**Funding:** Total Funding: \$5,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275559>

**Agency:** Department of Health and Human Services

National Institutes of Health

**Program:** Diet and Physical Activity Assessment Methodology

**Description:** This Funding Opportunity Announcement encourages innovative research to enhance the quality of measurements of dietary intake and physical activity. Applications submitted under this FOA are encouraged to include development of: novel assessment approaches; better methods to evaluate instruments; assessment tools for culturally diverse populations or various age groups, including children and older adults; improved technology or applications of existing technology; statistical methods/modeling to improve assessment and/or to correct for measurement errors or biases; methods to investigate the multidimensionality of diet and physical activity behavior through pattern analysis; or integrated measurement of diet and physical activity along with the environmental context of such behaviors.

**Due Date:** 9/7/2018

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275619>

**Agency:** Department of Health and Human Services

National Institutes of Health

**Program:** Phenotypic and Functional Studies on FOXO3 Human Longevity Variants to Inform Potential Therapeutic Target Identification Research (R01)

**Description:** The focus of this Funding Opportunity Announcement is on in vivo human studies, and in vitro studies on human cells or tissues, aimed at potential identification of therapeutic targets or and/or testing of interventions for healthy aging. Potential therapeutic targets include FOXO3 itself and upstream and downstream regulators in pathways mediated by FOXO3. The range of research areas of interest in this FOA includes studies that: 1) examine in vivo phenotypic effects of human FOXO3 variants, and/or 2) elucidate effects of these variants on cellular functions and the pathways that mediate them, and/or 3) identify and evaluate candidate therapeutic targets (e.g., target validation studies, testing of candidate compounds) for potential interventions based on FOXO3 functional pathways.

**Due Date:** 5/7/2018

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275650>

**Agency:** Department of Health and Human Services

National Institutes of Health

**Program:** Jointly Sponsored Ruth L. Kirschstein National Research Service Award Institutional Predoctoral Training Program in the Neurosciences

**Description:** The Jointly Sponsored NIH Predoctoral Training Program in the Neurosciences (JSPTPN) supports broad and fundamental research training in the neurosciences via institutional NRSA research training grants (T32) at domestic institutions of higher education. Trainees appointed to this training grant are financially supported for either one or two years, during the first 2 years of their graduate research training. The primary objective is to prepare individuals for careers in neuroscience that have a significant impact on the health-related research needs of the Nation.

**Due Date:** 5/25/2017

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275720>

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

**Program:** Interdisciplinary Training in Bioinformatics and Diabetes, Obesity and Metabolic Disease

**Description:** The purpose of this program is to promote the development of an interdisciplinary workforce for conducting bioinformatics research in diabetes, obesity and related metabolic diseases that are relevant to the research mission of NIDDK. This program will support institutional training programs for predoctoral and postdoctoral level researchers with backgrounds in bioinformatics, mathematics and/or computational sciences with mentors from both computational and biological backgrounds.

**Due Date:** 11/17/2016

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275763>

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

**Program:** New Directions in Hematology Research

**Description:** This program is intended to promote innovative research initiatives that explore high impact, new directions of inquiry relevant to the hematology

research mission of the National Institute of Diabetes and Digestive and Kidney Diseases. NIDDK invites investigator-initiated grant applications for basic or pre-clinical, proof of principle research projects that are tightly focused and directed at validating novel concepts and approaches that promise to open up new pathways for discovery

**Due Date:** 5/7/2018

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275580>

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

**Program:** Characterization of Pro- and Anti-Geronic Proteins and Peptides

**Description:** The goal of this program is to advance research on naturally occurring proteins (and/or peptides) known to impact one or more aging phenotypes, at physiological levels, based on whole-animal experimental evidence. These are "geronic proteins" isolated from circulation, which might reverse (rejuvenate) or potentially prevent development of aging phenotypes observable in an older laboratory animal, such as cardiac hypertrophy, diminished skeletal muscle repair-efficiency, reduced muscle strength, etc. (anti-geronic proteins), or which appear to promote an aging phenotype in a young adult laboratory animal, such as leading to decreased neurogenesis or cognitive function (pro-geronic proteins). (For brevity, this definition includes "geronic peptides.") The pro- or anti-geronic functions of these proteins have been demonstrated to have physiological consequences at least at the level of tissue or organ function, but often have additional support for their geronic functions at the cellular and molecular levels (but, importantly, in whole-animal experiments). These anti- and pro-geronic proteins are often known to function in other biological contexts, such as development. The primary goals of this program are to characterize the geronic functions of these proteins. The outcome of research supported by this program should be an improved understanding of the range of aging phenotypes affected by geronic proteins (individually or in concert), the cellular and molecular mechanisms by which these geronic functions are exerted, and will eventually promote studies supporting the translational potential of these proteins.

**Due Date:** 7/9/2015

**Funding:** Total Funding: \$2,350,000; Award Ceiling: \$350,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276096>

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

**Program:** Oral Immune System Plasticity in Chronic HIV Infection Under Treatment and Oral Co-Infections

**Description:** This Funding Opportunity Announcement solicits research projects that study the mechanisms of oral immune system plasticity relevant to chronic HIV infection and oral coinfections. In this context, we encourage studies on reversal of immune activation, residual inflammation, immune reconstitution inflammatory syndrome (IRIS), and microbial and by-product translocation. These conditions occur in persons chronically infected with HIV who are treated with combination antiretroviral therapy (cART) and who also experience oral opportunistic infections.

**Due Date:** 10/29/2015

**Funding:** Total Funding: \$1,353,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275636>

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

**Program:** Career Development Programs in Diabetes Research for Pediatric Endocrinologists

**Description:** To foster the development of a diverse and highly trained workforce of pediatric endocrinologists to assume leadership roles related to the Nations biomedical and behavioral research efforts in the area of pediatric diabetes, This Funding Opportunity Announcement invites applications for institutional career development programs in diabetes research for pediatric endocrinologists. The NIDDK will award physician scientist career development program (K12) grants to eligible institutions to provide a program to prepare pediatricians, selected by the institution, for careers in pediatric endocrinology research related to diabetes.

**Due Date:** 12/2/2015

**Funding:** Total Funding: \$2,500,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276069>

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

**Program:** Postdoctoral Research Training in Pediatric Clinical Pharmacology and Therapeutics (T32)

**Description:** This program invites grant applications from institutions/organizations that propose to develop clinician-scientists who will be leaders in the field of pediatric clinical pharmacology research. Individuals in these programs should receive training and experience in the methods and conduct of basic and clinical research, in order to qualify them to perform such studies independently.

**Due Date:** 7/21/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275996>

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

**Program:** Centers of Excellence in Ethical, Legal and Social Implications

**Description:** The National Human Genome Research Institute (NHGRI) is soliciting grant applications for the support of Centers of Excellence in Ethical, Legal and Social Implications (ELSI) Research (CEERs). The CEER Program is designed to support the establishment of sustainable trans-disciplinary research teams with the expertise and flexibility to anticipate, conduct research on, and quickly address a range of cutting edge ethical, legal, and social issues related to genetics and genomics. The Program is intended to create new research opportunities that cross disciplinary boundaries among investigators in diverse fields, such as the genomic sciences, clinical research, clinical and health policy, ethics, law, the humanities, economics, political science, anthropology and other basic social sciences. In addition to conducting trans-disciplinary research, Centers will disseminate their research findings and engage in other activities that facilitate the utilization of their findings and deliberations in the development of research, health and public policies and practices regarding the use of genomic information and technologies

**Due Date:** 7/15/2015

**Funding:** Total Funding: \$3,000,000; Award Ceiling: \$550,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275925>

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

**Program:** Pathway to Independence Award

**Description:** The purpose of the NIMHD Pathway to Independence Award program is to increase and maintain a strong cohort of new and talented, NIH-supported, independent investigators conducting minority health and

health disparities research. This program is designed to facilitate a timely transition of outstanding postdoctoral researchers from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions, and to provide independent NIH research support during the transition that will help these individuals launch competitive, independent research careers.

**Due Date:** 6/23/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275954>

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

**Program:** Tobacco Regulatory Science Small Grant Program for New Investigators

**Description:** The purpose of this program is to support New Investigators in the biomedical, behavioral, and social sciences who are in the early stages of establishing independent careers in tobacco regulatory research. The R03 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. Applicants are encouraged to conduct projects that ultimately have potential to inform regulations on tobacco product manufacturing, distribution, and marketing.

**Due Date:** 2/23/2017

**Funding:** Award Ceiling: \$75,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276095>

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

**Program:** Undiagnosed Diseases Gene Function Research

**Description:** Diseases Network (UDN) building upon the NIH Intramural Research Programs Undiagnosed Diseases Program (NIH-UDP). Responsive applications will propose to investigate the underlying genetics, biochemistry and/or pathophysiology of newly diagnosed diseases in association with the respective gene variant(s) identified through the UDN. In recent years, gene function studies combined with genetic and genomic analyses and metabolic studies have greatly improved diagnoses of these very rare diseases and advanced scientific knowledge of the underlying pathogenesis.



**Due Date:** 6/24/2015

**Funding:** Total Funding: \$1,000,000; Award Ceiling: \$150,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275957>

**Agency:** Department of Justice  
Bureau of Justice Assistance

**Program:** Economic, Cyber, and High-Tech Crimes National Training and Technical Assistance Program

**Description:** The BJA Economic, Cyber, and High-Tech Crimes National TTA Program serves the nation's communities by providing TTA to state, local, and tribal law enforcement officials; intelligence analysts; prosecutors; judges; fusion center staff; and other criminal justice entities on preventing, investigating, and responding to economic, cyber, and high-tech crimes. These crimes are committed using networked computers, handheld devices, and Internet technology; examples include various kinds of theft (financial, identify, etc.), selling illegal goods using the Internet, cyber stalking, hijacking accounts on social networking web sites, infrastructure intrusions, and hacking

**Due Date:** 5/18/2015

**Funding:** Award Ceiling: \$6,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275574>

**Agency:** Department of Justice  
Bureau of Justice Assistance

**Program:** Promoting Effective Justice Systems Strategies

**Description:** The purpose of this program is to provide state and local criminal justice practitioners and stakeholders with objective information, resources, and training and technical assistance (TTA) on timely and emerging criminal justice issues and actionable information to improve the uptake and quality of evidence-based practice.

**Due Date:** 6/16/2015

**Funding:** Award Ceiling: \$400,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276057>

**Agency:** Department of Justice  
National Institute of Justice

**Program:** Research and Evaluation on Victims of Crime

**Description:** NIJ has a longstanding history of collaborating with and supporting the Office for Victims of Crime (OVC) on research, evaluation, and programmatic projects. Over the years, the shared priorities of OVC and NIJ have resulted in a number of collective projects, workshops, and research. In collaboration with OVC, NIJ is seeking proposals for research on victims and victimization in the following three areas that are of interest to both agencies. 1. Studying the Victim-Offender Overlap. 2. Understanding the Violent Victimization Experiences of Young Men of Color. 3. Research on the Broader Impacts of School Shootings.

**Due Date:** 6/26/2015

**Funding:** Award Ceiling: \$1,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275892>

**Agency:** Department of Justice  
Office of Juvenile Justice Delinquency Prevention

**Program:** Design Study of Dual System Youth

**Description:** The Juvenile Justice Delinquency Prevention Act (JJDP Act) of 2002 directs OJJDP to pursue research that enhances the field's understanding of "juveniles who, prior to placement in the Juvenile Justice system, were under the care or custody of the State Child Welfare system, and juveniles who are unable to return to their family after completing their disposition in the Juvenile Justice system and who remain wards of the State." The intent is to generate information on the prevalence and incidence of youth fitting these criteria (i.e., dual system youth) and strategies to improve coordination between the juvenile justice and child welfare systems and improve outcomes for these youth. OJJDP is seeking applications for funding under its Fiscal Year (FY) 2015 Design Study of Dual System Youth. This design study (and related case studies) will identify effective and efficient strategies to measure the prevalence of dual system youth; identify the status of coordination and data sharing between the juvenile and criminal justice and child welfare systems (including expanding beyond delinquency or dependency court involvement to potentially include youth contact with law enforcement [e.g., arrests] and child protection agencies [e.g., child welfare cases]); and identify avenues for improved coordination and data sharing across systems.

**Due Date:** 5/25/2015

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275721>

**Agency:** Department of Justice  
Office of Juvenile Justice Delinquency Prevention

**Program:** 2015 Assessing the Impact of Juvenile Justice Reforms Program

**Description:** The Office of Juvenile Justice Delinquency Prevention is seeking applications for funding under its Fiscal Year (FY) 2015 Assessing the Impact of Juvenile Justice Reforms Program. This program will support research and evaluation to investigate the effectiveness and/or cost efficiency of juvenile justice system reforms. In particular, OJJDP is interested in reforms targeted at youth and law enforcement interaction, diversion, and community-based alternatives. OJJDP also encourages inquiries into the effectiveness of reforms targeted at mitigating negative outcomes that juvenile justice practices and conditions produce.

**Due Date:** 6/2/2015

**Funding:** Total Funding: \$600,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275950>

**Agency:** Department of Justice  
Office of Juvenile Justice Delinquency Prevention

**Program:** National Juvenile Court Data Archive

**Description:** The National Juvenile Court Data Archive (the Archive) houses the automated records of cases that courts with juvenile jurisdiction have handled. This solicitation will fund the annual collection, verification, and analysis of data that documents the activities of the juvenile court system and its response to law-violating and at-risk youth. The Archive will disseminate information on juvenile court case processing through Juvenile Court Statistics reports and fact sheets and make national and state-level data publicly accessible online. The Archive will also provide technical assistance to state and local data collection agencies to help them expand and improve their information systems and information sharing capabilities. Finally, the Archive will plan and implement further efforts to expand the case estimates to include Hispanic/Latino youth.

**Due Date:** 5/28/2015

**Funding:** Award Ceiling: \$650,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275569>

**Agency:** Department of the Interior  
Fish and Wildlife Service

**Program:** Multistate Conservation Grant Program

**Description:** The Sport Fish Restoration Act and the Wildlife Restoration Act, as amended by the Wildlife and Sport Fish Restoration Programs Improvement Act of 2000 authorizes the Secretary of the Interior to make up to \$6,000,000 available annually under the Wildlife and Sport Fish Restoration Program for the purpose of funding multistate conservation project grants.

**Due Date:** 8/14/2015

**Funding:** Total Funding: \$6,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275840>

**Agency:** NASA

**Program:** ROSES 2015: Cryospheric Science

**Description:** This announcement covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements.

**Due Date:** 6/17/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275054>

**Agency:** NASA

**Program:** ROSES 2015: Emerging Worlds

**Description:** This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements.

**Due Date:** 6/5/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=274874>

**Agency:** NASA

**Program:** ROSES 2015: NASA ISRO Synthetic Aperture Radar Mission Science Definition Team

**Description:** This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific

balloon, sounding rocket, International Space Station, CubeSat and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements.

**Due Date:** 6/8/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275470>

**Agency:** NASA

**Program:** ROSES 2015: Surface Water and Ocean Topography Science team

**Description:** This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space;

Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements.

**Due Date:** 5/15/2015

**Funding:** See announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275045>

**Agency:** NASA

**Program:** Small Spacecraft Technology Program, Smallsat Technology Partnerships Appendix

**Description:** The objectives of the Smallsat Technology Partnerships (STP) are to:

- Engage the unique talents and fresh perspectives of the university community to develop new technologies and capabilities for small spacecraft or to use small spacecraft as a development and demonstration platform for more broadly applicable technologies.
- Share NASA experience and expertise in relevant university projects.
- Increase support to university student efforts in small spacecraft technology through funding and collaboration with NASA, to foster a new generation of innovators for NASA and the nation.
- Engage NASA personnel across the agency in the rapid, agile, and cost-conscious small spacecraft development approaches that have evolved in the university community.

The goals of STP include collaboration with university teams that have experience in small spacecraft development and also extension of support to colleges and universities that have little or no previous involvement in this field. Colleges and universities with experience in small spacecraft development are encouraged to team with other college and universities to address these dual goals. In addition, collaboration with a NASA Center or NASA's Jet Propulsion Laboratory (JPL) is a key feature of these STP projects. This appendix is soliciting proposals for projects in the following specific topic areas: Topic 1: Precise attitude control and pointing systems for cubesats. Topic 2: Power generation, energy storage, and thermal management systems for small spacecraft. Topic 3: Simple low-cost

deorbit systems. Topic 4: Communications and tracking systems and networks.

**Due Date:** 6/8/2015

**Funding:** Award Ceiling: \$200,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=276158>

**Agency:** National Science Foundation

**Program:** Long Term Ecological Research National Communications Office

**Description:** NSF invites proposals for a Long Term Ecological Research (LTER) National Communications Office. This office will coordinate research, education, and outreach programs across the current 25 LTER projects, communicate these activities to diverse audiences, and provide centralized representation of the LTER network to the broad scientific community and the public. The lead PI of the successful proposal will serve as the Office Director and will work with the LTER Science Council and research community to develop and implement strategic goals and future initiatives.

**Due Date:** 5/6/2015

**Funding:** Total Funding: \$800,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=271269>

**Agency:** National Science Foundation

**Program:** Cyber-Physical Systems

**Description:** Cyber-physical systems (CPS) are engineered systems that are built from, and depend upon, the seamless integration of computational algorithms and physical components. Advances in CPS will enable capability, adaptability, scalability, resiliency, safety, security, and usability that will far exceed the simple embedded systems of today. CPS technology will transform the way people interact with engineered systems -- just as the Internet has transformed the way people interact with information. New smart CPS will drive innovation and competition in sectors such as agriculture, energy, transportation, building design and automation, healthcare, and manufacturing.

**Due Date:** 5/4/2015

**Funding:** Total Funding: \$34,000,000; Award Ceiling: \$7,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=272671>



**Agency:** National Science Foundation

**Program:** National Science Foundation Research Traineeship Program

**Description:** The NSF Research Traineeship (NRT) program is designed to encourage the development and implementation of bold, new, potentially transformative, and scalable models for STEM graduate education training. The NRT program seeks proposals that ensure that graduate students in research-based masters and doctoral degree programs develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The NRT program includes two tracks: the Traineeship Track and the Innovations in Graduate Education (IGE) Track. The Traineeship Track is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, aligned with changing workforce and research needs, and scalable. For this solicitation the Traineeship Track has one priority interdisciplinary research theme; Data-Enabled Science and Engineering (DESE); proposals are encouraged also on any non-DESE interdisciplinary research theme that is a national priority. The IGE Track is dedicated solely to piloting, testing, and evaluating novel, innovative, and potentially transformative approaches to graduate education, both disciplinary and interdisciplinary, to generate the knowledge required for their customization, implementation, and broader adoption. Whereas the Traineeship Track promotes building on the current knowledge base to more effectively train STEM graduate students, the IGE Track supports test-bed projects with high potential to enrich, improve, and extend the knowledge base with attention to transferability and innovation. For both tracks, strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, museums, and academic partners are encouraged.

**Due Date:** 5/6/2015

**Funding:** Total Funding: \$37,880,793

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=273768>

**Agency:** National Science Foundation

**Program:** Archiving and Discovering of Data and Metadata Generated through Projects Funded by the NSF Arctic Sciences Section

**Description:** The National Science Foundation (NSF) invites investigators at U.S. organizations to submit proposals for a cooperative agreement for archival of data and access to data and metadata generated through projects funded by the NSF Arctic Sciences Section. Proposals should focus on providing data and metadata ingest services for NSF-funded data

providers, data and metadata access services to scientists across disciplines and other Arctic stakeholders (including decision-makers), and data and metadata archival services to ensure that the data is accessible and discoverable in the future.

**Due Date:** 5/18/2015

**Funding:** Total Funding: \$1,200,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=273949>

**Agency:** National Science Foundation

**Program:** Critical Techniques and Technologies for Advancing Foundations and Applications of Big Data Science and Engineering

**Description:** The BIGDATA program seeks novel approaches in computer science, statistics, computational science, and mathematics, along with innovative applications in domain science, including social and behavioral sciences, geosciences, education, biology, the physical sciences, and engineering that lead towards the further development of the interdisciplinary field of data science. The solicitation invites two types of proposals: "Foundations" (F): those developing or studying fundamental theories, techniques, methodologies, technologies of broad applicability to Big Data problems; and "Innovative Applications" (IA): those developing techniques, methodologies and technologies of key importance to a Big Data problem directly impacting at least one specific application. Therefore, projects in this category must be collaborative, involving researchers from domain disciplines and one or more methodological disciplines, e.g., computer science, statistics, mathematics, simulation and modeling, etc. While Innovative Applications (IA) proposals may address critical big data challenges within a specific domain, a high level of innovation is expected in all proposals and proposals should, in general, strive to provide solutions with potential for a broader impact on data science and its applications. IA proposals may focus on novel theoretical analysis and/or on experimental evaluation of techniques and methodologies within a specific domain. Proposals in all areas of sciences and engineering covered by participating directorates at NSF are welcome. While notions of volume, velocity, and variety are commonly ascribed to big data problems, other key issues include data quality and provenance. Data-driven solutions must carefully ascribe quality and provenance to results in a manner that is helpful to the users of the results. For example, in some cases, such as in education research, data quality may aggregate to test or measurement instrument quality, where a composite of variables may be used to describe one or more constructs. In addition to approaches such as search, query processing, and analysis, visualization techniques will also become critical across many stages of big data use--to obtain an initial assessment of data as well as through subsequent stages of

scientific discovery. Research on visualization techniques and models will be necessary for serving not only the experts, who are collecting the data, but also those who are users of the data, including “cross-over” scientists who may be working with big data and analytics for the first time, and those using the data for teaching at the undergraduate and graduate levels.

**Due Date:** 5/20/2015

**Funding:** Total Funding: \$26,500,000; Award Ceiling: \$2,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=274789>

**Agency:** National Science Foundation

**Program:** Cracking the Olfactory Code

**Description:** This solicitation describes an Ideas Lab on “Cracking the Olfactory Code.” Ideas Labs are intensive workshops focused on finding innovative solutions to grand challenge problems. The ultimate aim of this Ideas Lab organized by the Biological Sciences (BIO) and the Mathematical and Physical Sciences (MPS) Directorates at the National Science Foundation (NSF) is to facilitate the generation and execution of innovative research projects aimed at understanding the nature of olfactory processing and sensory representations in the brain in general. The aspiration is that mixing researchers from diverse scientific backgrounds will engender fresh thinking and innovative approaches that will transform our understanding of olfactory processing in behavioral contexts while spawning new opportunities to elucidate the general nature of sensory representations in the brain.

**Due Date:** 7/31/2015

**Funding:** Total Funding: \$16,000,000; Award Ceiling: \$3,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=274843>

**Agency:** National Science Foundation

**Program:** Plant Genome Research Program

**Description:** This program is a continuation of the Plant Genome Research Program (PGRP) that began in FY 1998 as part of the National Plant Genome Initiative (NPGI). Since the inception of the NPGI and the PGRP, there has been a tremendous increase in the availability of functional genomics tools and sequence resources for use in the study of key crop plants and their models. Proposals are welcomed that build on these resources to develop conceptually new and different ideas and strategies to address grand challenge questions in plants of economic importance on a

genome-wide scale. There is also a critical need for the development of novel and creative tools to facilitate new experimental approaches or new ways of analyzing genomic data. Especially encouraged are proposals that provide strong and novel training opportunities integral to the research plan and particularly across disciplines that include, but are not limited to, plant physiology, plant breeding, quantitative genetics, biochemistry, bioinformatics and engineering. Activities in four focus areas will be supported in FY 2015: (1) Genomics-empowered plant research (RESEARCH-PGR) to tackle fundamental questions in plant sciences on a genome-wide scale; (2) Development of tools and resources for plant genome research (TOOLS-PGR) including novel technologies and analysis tools to enable discovery; (3) Mid-Career Investigator Awards in Plant Genome Research (MCA-PGR) to increase participation of investigators trained primarily in fields other than plant genomics; and, (4) Early Career Investigator Awards in Plant Genome Research (ECA-PGR) to increase the participation of early-career scientists in plant genome research.

**Due Date:** 5/27/2015

**Funding:** Total Funding: \$15,000,000; Award Ceiling: \$10,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=274844>

**Agency:** National Science Foundation

**Program:** Geobiology and Low-Temperature Geochemistry

**Description:** The Geobiology and Low-Temperature Geochemistry Program focuses on geochemical processes in terrestrial Earth's surface environmental systems, as well as the interaction of geochemical and biological processes. The program supports field, laboratory, theoretical, and modeling studies of these processes and related mechanisms at all spatial and temporal scales. Studies may address: 1) inorganic and/or organic geochemical processes occurring at or near the Earth's surface now and in the past, and across the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 2) the role of life in the transformation and evolution of Earth's geochemical cycles; 3) surficial chemical and biogeochemical systems and cycles, including their modification through environmental change and human activities; 4) low-temperature aqueous geochemical processes; 5) mineralogy and chemistry of earth materials; 6) geomicrobiology and biomineralization processes; and 7) medical mineralogy and geochemistry. The Program encourages research that focusses on geochemical processes as they are coupled with physical and biological processes in the critical zone.

**Due Date:** 12:00:00 AM

**Funding:** Total Funding: \$6,300,000; Award Ceiling: 1,500,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275349>