

# THE STATE UNIVERSITY SYSTEM OF FLORIDA

## WASHINGTON E-UPDATE

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***Budget and Appropriations Update*** – Soon after the president sent his FY2017 budget request to Congress, lawmakers began to design their own framework for a budget. Earlier this month, the House Budget committee adopted a blueprint, a so-called budget resolution, which sets a “topline” spending limit of \$1.07 trillion on discretionary programs—the amount agreed to in last year’s bipartisan budget agreement. But House conservatives are arguing for further cuts to those programs, calling into question whether GOP leaders have enough votes to pass the budget resolution. Some have said they would only vote for the plan if there were a guarantee that entitlement programs are cut.

In the meantime, House Budget Chairman Tom Price and other GOP leaders are trying to round up enough Republican support to adopt the fiscal 2017 budget resolution when Congress returns in April.

Regardless of how the overall spending issue is resolved, the proposed House budget resolution raises some concerns. If adopted by the full House, the plan could eliminate the U.S. Department of Commerce, and many research programs at the National Science Foundation and the Department of Energy would be sharply curtailed.

The resolution calls for breaking up the \$9 billion commerce department, which oversees a huge scientific portfolio that includes the National Oceanic and Atmospheric Administration, the National Institute of Standards and Technology (NIST), and the Census Bureau. Under the heading “options worthy of consideration,” the budget committee suggests moving NOAA to the Department of Interior, placing NIST within NSF, and assigning the Census Bureau, including the massive decennial census, to the Department of Labor’s Bureau of Labor Statistics.

The budget resolution also directs appropriators to provide “stable funding” for only three of NSF’s six research directorates—biology, computing and information science, and math and physical sciences—as well as NSF’s programs to strengthen science education. No mention is made of NSF’s other three research directorates—engineering, geoscience and the social and behavioral sciences.

As far as DOE, the resolution states that high-risk projects, “should be embarked on by the private sector instead” of by DOE’s Office of Science. It goes on to assert that much of the \$300 million portfolio of DOE’s Advanced Research Projects Agency-Energy goes to grants that are “neither high-risk/high-reward, nor something that private industry could not take on itself.”

Meanwhile appropriators in both chambers are planning to move ahead with markups of all the Fiscal 2017 bills with the intention of completing consideration before the summer recess begins in mid-July. The first House markup – the Military Construction-VA bill -- has already been held by the subcommittee. Despite the fact that leaders are professing optimism about finishing bills before the start of the fiscal year, it should be noted that in the past two Presidential election years, Congress passed Continuing Resolutions that stretched into the following March of the next year.

## **Senate FAA markup includes amendment on university drone use**

A new FAA authorization bill, S 2658, was marked up and approved March 16 by the Senate Committee on Commerce, Science and Transportation. Committee Chair John Thune (R-SD) and Ranking Member Bill Nelson of Florida managed the deliberation and the adoption of a bipartisan manager's amendment containing 53 separate amendments.

Among them was one affecting the use of drones by institutions of higher learning for educational and research purposes, including engineering and robotics uses.

The amendment calls for the FAA to establish procedures for universities, including faculty, students and staff, within 270 days of enactment of the law. The bills directs the FAA to establish procedures providing for "streamlined, risk-based operational approval for unmanned aircraft systems..." To read the amendment, [click here](#).

The current FAA authorization was extended for three months through July 15 by a bill passed in both chambers. The existing bill had been set to expire March 31. The extension move was taken to allow more time for the process to pass a new long-term measure.

The Senate may bring its new bill to the floor during April. The House marked up its bill, H.R. 4441, earlier this year. That measure, however, it is unlikely to make it to the floor in its current form because of a provision to spin off air traffic control management into a new corporation.

## **Senate passes CARA bill addressing opioid epidemic**

After two weeks of debating amendments on the floor, the Senate overwhelmingly passed new authorizing legislation designed to respond to the nation's growing opioid drug and heroin epidemic. [The Comprehensive Addiction and Recovery Act](#), or CARA, (S524) passed 94 to 1 on March 10.

The bill allows the Departments of Health and Human Services and Justice to issue grants to states to expand treatment programs and to make overdose prevention programs more widely available.

During the amendment process, Democratic proposals to add \$600 million in emergency spending were defeated by Republicans who said the recently passed Fiscal 2016 omnibus appropriations bill contained \$400 million in new funding for the problem and that money should be given a chance to work. The bill contains a “doctor shopping” provision that would allow Medicare to designate single prescribers for at-risk patients.

A companion bill in the House, H.R. 953, is awaiting a hearing in the Judiciary Committee. Senate sponsors hope the bipartisan support in their chamber will pressure the House into moving its bill. Among its provisions the bill:

- Amends the Higher Education Act of 1965 to prohibit the Department of Education from including any question about the conviction of an applicant for the possession or sale of illegal drugs on the Free Application for Federal Student Aid form.
- Authorizes the Recovery Branch of the Office of National Drug Control Policy to award grants to: enable high schools and colleges with substance abuse recovery programs and nonprofit organizations to provide substance abuse recovery support services to high school and college students, to help build communities of support for young people in recovery, and to encourage initiatives designed to help young people achieve and sustain recovery; and enable recovery community organizations to develop, expand, and enhance recovery services.
- Amends the Public Health Service Act to authorize the Center for Substance Abuse Treatment to award grants to enable state substance abuse agencies, local governments, nonprofit organizations, and Indian tribes or tribal organizations that have a high rate of, or have had a rapid increase in, the use of heroin or other opioids to expand activities, including medication assisted treatment, for the treatment of addiction in the geographical areas affected.

## **House appropriators tell NIH ‘don’t plan on mandatory funding’**

Leaders from the National Institutes of Health received a direct message at its annual budget hearing with House appropriations Members March 16: don’t count on receiving mandatory funding as proposed in the President’s Fiscal 2017 budget. In fact, that has been a familiar refrain in all the budget hearings across the agencies since the Administration included unprecedented levels of mandatory spending proposals in the budget request released earlier this year.

Mandatory funding, as opposed to discretionary funding, is automatic and not under the jurisdiction of the Appropriations Committees and not counted against the budget caps put in place by the Budget Control Act in 2011.

Members of the Labor-HHS-Education subcommittee in the hearing criticized the Administration’s NIH budget request because it would rely on \$30.3 billion in discretionary and an additional \$1.83 billion in mandatory spending to reach a level \$1

billion higher than the current year. The 2016 omnibus appropriations bill provided a \$2 billion increase for NIH to a level of \$32.1 billion. If the discretionary level is adopted but not the mandatory portion, the agency would actually receive a cut in funding, but Members made clear they were not interested in letting that happen.

“Frankly, I don’t plan to allow the cut to stand,” said subcommittee Chairman Tom Cole (R-OK). “Proposing new, mandatory, one-time spending that may never materialize is not the path to do this.”

“I assure you that this chair and ranking member, and the big chair and I, will just not let that happen,” added Nita M. Lowey (D-NY), ranking Democrat on the full committee. “If you can get it, good luck to you.”

“We don’t like mandatory spending. It’s grown completely out of control,” said Harold Rogers (R-KY), chairman of the full committee. “When I came to Congress, we appropriated two-thirds of federal spending. Now it’s one-third.”

To view the hearing webcast,

<http://appropriations.house.gov/calendararchive/eventsingle.aspx?EventID=394449>

## **Bipartisan disappointment with NASA budget request expressed at Senate hearing**

Members of the Senate Commerce, Justice, Science appropriations subcommittee questioned NASA Administrator Charles F. Bolden Jr. on March 10th on the fiscal 2017 NASA budget. Unhappy with proposed spending levels, Chairman Richard Shelby (R-AL) called the Administration’s commitment to space exploration into question, suggesting that priorities in other portions of the budget led to the cuts.

Senator Shelby specifically pointed to \$763 million of the requested budget that would be offset by proposed tax increases that have not been considered by Congress and are unlikely to be enacted this year. Ranking Member Barbara Mikulski (D-MD) expressed similar concerns, referencing the unpredictability of acquiring the necessary funds for the mandatory funding request in the budget.

The budget includes funding for satellites, aeronautics research, education, and safety compliance. In total, NASA asked for \$19 billion, \$300 million less than in 2016, of which \$1 billion is proposed as mandatory spending, not subject to the appropriations process. Without the mandatory funding, the NASA budget would drop to \$18.26 billion.

In Bolden’s opening statement, he defended the Administration’s decisions, highlighting manned space operations that have received bipartisan support in Congress that would be funded by this budget. With \$8.4 billion marked for human exploration operations, the proposed NASA budget would allow for missions both in low Earth orbit as well as future deep space exploration, he said. The budget also includes \$5.6 billion for science, \$790 million for aeronautics research, \$100 million for education and \$827 million for space technology.

Bolden assured the subcommittee that progress is on track for the launch of Exploration Mission 1 in 2018, as well as a new Mars rover in 2020. With this progress and the past year's continued funding of International Space Station experiments, Bolden felt confident that manned missions to Mars can be achieved.

Further questioning during the hearing led Bolden to admit that he is not responsible for deciding the figures for each year's budget, but would be willing to work with Congress to find a mutually agreed upon amount. The hearing can be viewed [here](#).

## **New system launched for unfunded NIH applicants**

A new pilot program has begun that aims to connect unsuccessful NIH applicants with other funding foundations to support grants that fall outside the pay line but are scored well.

NIH and Leidos have developed the Online Partnership to Accelerate Research, or OnPAR, system that is intended to circulate abstracts of applications. To participate, investigators will have to submit their abstracts and applications following the NIH scoring decision. Once applicants receive their NIH funding notification, those scoring within the 30<sup>th</sup> percentile will be invited to participate.

The program has launched as a pilot involving seven nonprofit disease foundations involving cancer, juvenile diabetes, MS and alopecia areata. NIH has committed to making applicants aware of the effort but will not provide application materials.

If the effort proves successful, Leidos plans to expand the system and its coverage. To read more about the effort, [click here](#).

## **Committee hearing examines public health response to Zika virus**

The public health response to Zika virus was examined at a hearing March 3 by the Oversight Subcommittee of the House Energy and Commerce Committee.

Subcommittee Chair Tim Murphy (R-PA) highlighted a number of key issues related to Zika prevention efforts in the United States.

Representatives were particularly interested in highlighting details of the Administration's Zika efforts and response. Rep. Murphy opened the meeting by expressing his feeling that the Administration's "one off" efforts to deal with public health crises fail provide a strategic and long-term response to adequately handle the burden of new and evolving public health risks. He also noted his belief in the importance of using mosquito control as the best defense.

Rep. Kathy Castor (D-FL) stated the importance of supporting a "weakening" public health infrastructure, and noted that many states, including Florida, have decreased

support for public health, affecting the states' abilities to adequately respond to public health emergencies.

Members also expressed concern for Puerto Rico and for the southeastern states as mosquito season approaches this summer and about preparedness for potential local transmission of Zika during mosquito season. Discussion centered on the President's Zika emergency funding request, and coordination of Federal efforts to address Zika.

Witnesses testified to the importance of receiving supplemental funding to support efforts to create diagnostics, advance research and promote a better understanding of Zika's pathogenesis and effects, and accelerate the development of vaccines.

Questions arose from Republicans about utilizing some of the previously appropriated Ebola funds instead of providing new and supplemental funding explicitly for Zika as requested by President Obama in his FY17 budget. Centers for Disease Control and Prevention Director Tom Frieden stressed the importance of supplemental funding, and highlighted the necessity of supporting international infrastructure in an effort to support domestic public health. Currently the CDC is operationalizing U.S. Zika efforts, and the Assistant Secretary for Preparedness and Response is coordinating efforts across agencies. The full hearing can be viewed [here](#), in addition to written testimonies of the nine witnesses.

## **Agriculture research budget request considered in House hearing**

Proposed funding for agricultural research in the Administration's Fiscal 2017 budget was the topic of a March 16 [hearing](#) by the House Appropriations agriculture subcommittee. Subcommittee Chairman Robert Aderholt set the tone for the hearing in his [opening statements](#), laying out four primary goals for the Subcommittee.

"First, increasing oversight, efficiency, and the need for effective outcomes. Second, keeping rural America vibrant. Third, supporting American farmers, ranchers and producers. And fourth, protecting the health of people, plants and animals. We will be reviewing USDA's research request with these themes in mind."

The budget request for USDA is \$2.9 billion in discretionary funding, down \$38 million from last year's enacted levels. The chairman voiced concern that the budget included termination of several NIFA research programs while adding programs that appeared to him to be redundant, as well as concern about the use of mandatory funding for AFRI, which he called an "irresponsible budget gimmick."

The President's budget proposes a total of \$700 million for the Agriculture and Food Research Initiative (AFRI) competitive grants program for fundamental and applied agricultural sciences. The request, which would double last year's \$350 million, is made up of \$375 million in discretionary and \$325 million in mandatory funds. According to NIFA Director Dr. Sonny Ramaswamy, the discretionary funding would be focused on six areas: foundational sciences; water for food production systems; food safety;

childhood obesity prevention; climate variability and change; sustainable bioenergy; and education and literacy.

Members of the subcommittee raised various questions about research areas including drought protection and organics. Dr. Catherine Woteki, Under Secretary of Research, Education and Economics, said that \$70 million in the grants program is targeted to droughts, and Dr. Ramaswamy discussed programs which support organic research, such as the Organic Research and Extension Program and the Organic Transitions Program.

Representative Tom Rooney (R-FL) questioned the panel about citrus greening and when a large-scale solution will be readily available. He noted that recently the Florida Commissioner of Agriculture declared a state of emergency to address the situation. Dr. Woteki said that research is underway in the universities through grants, including one to the University of Florida for work at Lake Alfred, and research through dedicated Agricultural Research Service facilities. Dr. Chavonda Jacobs Young, Administrator of the Agricultural Research Service, noted that the agency released seven resistant rootstocks in fiscal year 2014 which have had good results in field trials, and that they hope to have them commercially available as soon as possible.

The budget also includes funding for programs for institutions serving African-American, Hispanic/Latino, and tribal communities to promote research and training for students in historically underserved communities. In addition, the budget includes a request for \$1 million in grants for youth-serving institutions.

Chairman Aderholt was critical of perceived attempts to provide funding for Nutrition Education Centers of Excellence funded through the Food and Nutrition Service, which was prohibited in the fiscal year 2016 appropriations legislation. Dr. Ramaswamy clarified that NIFA is aware of the prohibition and will approach the problem through competitive grants for obesity and nutrition research, which is authorized through the farm bill. For more information on the budget for the Agriculture Food and Research Initiative (AFRI) access the NIFA [fact sheet](#).

## **New Education Secretary confirmed; budget is criticized**

Dr. John King was confirmed by the Senate on March 14 after a series of hearings which revealed mixed support for the now Secretary of Education.

The Senate HELP Committee voted 16 to 6 at to advance the nomination to the Senate floor at a March 9 [hearing](#). Senators Lamar Alexander (R-TN), Patty Murray (D-WA) and Christopher Murphy (D-CT) expressed support for the nomination, while Senators Michael B. Enzi (R-WY) and Elizabeth Warren (D-MA) voiced reservations. Senator Warren worried about the Department's Student Federal Aid office and its handling of debt collection companies and allowing certain for profit colleges to take advantage of students. She went on to say that she believes Dr. King to be smart and capable, but that she wouldn't support his nomination on the Senate floor without better information about what he will do to change the culture of the department.

A day following the hearing, Dr. King was criticized at another [hearing](#) by the Senate Appropriations Subcommittee on Labor, Health and Human Services, Education, and Related Agencies.

The Committee did not feel that the Department's FY 2017 Budget request provides states with enough funding to enact appropriate reforms for the [Elementary and Secondary Education Act](#), which replaced the "No Child Left Behind" law. The department requested only \$500 million new Student Support and Academic Enrichment Grants program, while lawmakers had intended a block grant of \$1.65 billion "We want you to give a block grant. That was a clear intent of the law," said Senator Bill Cassidy (R-LA). Senator Tammy Baldwin (D-WI) also stressed the importance of the grant program funding.

## **Directorate funding levels discussed at NSF budget hearing**

The National Science Foundation budget for Fiscal 2017 was reviewed at a hearing March 16 of the House Commerce, Justice, and Science Appropriations Subcommittee.

The president's budget proposal requests a funding increase of 6.7 percent for the foundation of which \$400 million is proposed as mandatory funding. Solely with discretionary funding, NSF would only obtain a 1.3 percent funding increase. France Cordova, the NSF Director, was the only witness present.

Rep. John Culberson (R-TX), the subcommittee chairman, opened the hearing by thoroughly opposing the mandatory spending request, remarking it promotes "speculative sources of funding for the future that are just simply not going to happen". In spite of his disagreement with the budget request, he noted the subcommittee is committed to supporting NSF as much as it can.

Unlike Rep. Culberson, ranking member Mike Honda (D-CA) expressed his opinion that the 1.3 percent in discretionary funding is not enough and that more funding is needed for the foundation to properly deliver results.

Throughout the hearing, Rep. Honda argued that Congress should provide "top-line" appropriations for NSF directorates only and he completely opposed action by the committee to allocate funds to only certain NSF directorates.

Rep. Culberson said he no longer desires to specify funding levels for individual research directorates and he thinks political agendas should not be inserted in this decision. He also remarked his desire to limit the influence of the OMB on the NSF budget.

France Cordova, in response to a question of Rep. Honda on how directorate level micro-management could the improve research prioritization process, mentioned that such a funding approach would cause scientists to lobby congress, stopping them from participating in community-based prioritization processes.



Besides funding at the directorate level, the discussion in the hearing also addressed relevant science topics to NSF such as what kind of sciences are in the best interest of the nation, the management of large research facilities, the importance of social and geosciences, the importance of expanding the involvement of minority groups in STEM fields and the implications of improving the inter-disciplinarity of science.

The hearing marked the first step in the process of establishing the NSF's budget for FY 2017. A video recording of this hearing can be [found here](#).

## **Mental health bills advance in the Senate**

The Senate Health, Education, Labor and Pensions (HELP) Committee marked up several bills including the Mental Health Reform Act (S. 2680) and four other bills intended to improve the mental health system and thwart the opioid abuse epidemic on March 16. The Mental Health Reform Act of 2016, sponsored by Senator Alexander Lamar (R-TN), was unanimously approved by voice.

The manager's amendment, which passed at the mark-up, included provisions to strengthen parity enforcement. One of the provisions would update mental health block grants by integrating focused community-based and early intervention services. Another provision would improve coordination between federal agencies and individual mental health care departments to better help the mentally ill.

In addition, the amendments approved would require federal agencies and mental health programs to adopt up-to-date approaches for mental health treatment and would ensure that physicians can share patient information with caregivers more easily.

All of the individual amendments offered during the mark-up were withdrawn by the committee. Sen. Susan Collins (R-ME) proposal would have added exceptions to exclusions in the Medicaid IMD, included in the unmarked version of the bill. This amendment was not considered because Medicaid reimbursement is outside the jurisdiction of the HELP committee. Sen. Sheldon Whitehouse (D-RI) proposal would have created a 5-state program pilot program with \$250 million in economic incentives for health care providers.

Furthermore, the committee approved S.1455, S.2256, S.480, and S.2687. These four bills attempt to thwart the expanding opioid abuse epidemic that afflicts the nation. Respectively, the bills aim to increasing access to overdose antidotes, approving new drugs used to treat addiction, improving electronic prescription reporting and addressing care of infant patients affected by addiction or withdrawal symptoms from their parents.

The survival of these bills, including the Mental Health Reform Act of 2016 will now depend on the committee's ability to reach consensus with the Senate majority and minority leadership to bring these bills to the full Senate for a vote. A video recording of the mark-up can be found [here](#).

## Senate committee approves 7 medical innovation bills

Working toward building Senate companion legislation to the [21<sup>st</sup> Century Cures](#) bill passed in the House of Representatives last July, the Senate HELP Committee held a [markup](#) March 9 on seven separate medical innovation bills.

Committee Chairman Lamar Alexander (R-TN) outlined the bills as well as the nomination of Dr. John King for Secretary of Education. The Chairman expressed his desire to support funding for NIH, but was unenthusiastic about the use of mandatory funding in the President's budget. Instead, he said he would like to see a surge of additional funding for high priority innovation programs at the agency, in addition to steady increases in discretionary spending. "My own view is that mandatory funding should not be a replacement for discretionary funding," said Alexander.

Ranking Democrat Patty Murray (D-WA) noted some top priorities for Democrats in order to get the bills passed and signed. Senator Murray stated that to pass a final package, they would have to address strengthening FDA's ability to regulate medical devices after they come to market for reasons of consumer safety, and provide strong, sustained investment in NIH biomedical research. She said that FDA responsibilities cannot be expanded without also increasing resources and also pointed out that NIH rejects nine of every eleven grant proposals received, indicating that many important research initiatives could be going unfunded.

The Committee voted to pass all seven bills, including The Advancing Hope Act of 2015 ([S. 1878](#)), which Senator Bob Casey (D-PA) said is critically important to supporting research on rare pediatric diseases, which often don't get sufficient research attention because the private sector does not view rare diseases as profitable. This is compounded by the difficulties of clinical trials involving children. The bill would reauthorize the priority review voucher program for rare pediatric diseases through 2022 and expand the definition of a rare pediatric disease to include treatments for sickle cell disease and pediatric cancers. These vouchers expedite the review process for drugs or biological products from 10 months to only 6 months.

Senator Elizabeth Warren (D-MA) submitted and subsequently withdrew an amendment which she said incorporates another piece of legislation, the [National Biomedical Research Act](#), to provide \$ 5 billion per year in additional mandatory funding to NIH and FDA. The spending would support bipartisan efforts to advance biomedical research. Discussion of the amendment led to a conversation about Democrats' frustration with the GOP response to funding biomedical research and Republican concerns that mandatory funding could result in a maldistribution of funds that does not reflect the disease burden. Warren explained that last year's extra \$2 billion for health research was a "one-off" and that they are looking for consistent streams of funding and that the proposed mandatory funding is targeted toward priority programs, so it should not result in an accountability issue. Senator Patty Murray (D-WA) also submitted and then withdrew an amendment that would establish a medical device surveillance system at the FDA to help address constraints on the FDA's postmarket regulation of medical

devices. The amendment was withdrawn over concerns that it falls under the jurisdiction of the Senate Finance Committee.

The committee also passed the following bills relating to review processes and consumer impact:

- Advancing Breakthrough Medical Devices for Patients Act of 2015 ([S. 1077](#)), which would expand the priority review process to include breakthrough devices that are not currently eligible.
- Medical Countermeasures Innovation Act of 2015 ([S. 2055](#)), which would use priority review vouchers to encourage the private sector to pursue medical advancements for agents that pose a national threat, such as Ebola and Zika.
- Combination Product Regulatory Fairness Act of 2015 ([S. 1767](#)), which is designed to improve the review process for products that have both drug and device components.
- Adding Zika Virus to the FDA Priority Review Voucher Program Act ([S. 2512](#))
- Patient Focused Impact Assessment Act of 2015 ([S. 1597](#)), targeted at strengthening the level of patient input in the medical product development process.
- The Medical Electronic Data Technology Enhancement for Consumers Health Act ([S.1101](#))

## Rep. Miller to retire

Representative Jeff Miller from Pensacola announced March 10 that after 16 years in Congress he will retire from Congress at the end of the year. He has chaired the House Veterans Affairs Committee and served on the Armed Forces Committee as well during his tenure. Congressman Miller has been a longtime supporter of the State University System and the University of West Florida.

## Highlights of competitive grant opportunities at federal agencies

**Agency:** U.S. Department of Agriculture  
Natural Resources Conservation Service

**Program:** Conservation Innovation Grants

**Description:** The Natural Resources Conservation Service is announcing availability of Conservation Innovation Grants (CIG) to stimulate the development and adoption of innovative conservation approaches and technologies, while leveraging the Federal investment in environmental enhancement and protection in conjunction with agricultural production. CIG projects are expected to lead to the transfer of conservation technologies,

management systems, and innovative approaches (such as market-based systems) into NRCS technical manuals and guides or to the private sector. CIG is used to apply or demonstrate previously proven technology in order to increase adoption with an emphasis on opportunities to scale proven, emerging conservation strategies.

**Due Date:** 5/10/2016

**Funding:** Total Program Funding: \$20,000,000 Award Ceiling: \$2,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282011>

**Agency:** U.S. Air Force  
Air Force Office of Scientific Research

**Program:** Air Force Fiscal Year 2017 Young Investigator Research Program (YIP)

**Description:** The Fiscal Year 2017 Air Force Young Investigator Research Program (YIP) intends support for scientists and engineers who have received Ph.D. or equivalent degrees 1 April 2011 or later that show exceptional ability and promise for conducting basic research. The program objective is to foster creative basic research in science and engineering; enhance early career development of outstanding young investigators; and increase opportunities for the young investigator to recognize the Air Force mission and related challenges in science and engineering. Individual awards are made to U.S. institutions of higher education, industrial laboratories, or non-profit research organizations where the principal investigator is employed on a full-time basis and holds a regular position. YIP primary investigators must be a U.S. citizen, national, or permanent resident. Most YIP awards are funded at \$120,000 per year for three years, for a total of \$360,000. Exceptional proposals will be considered individually for higher funding levels and/or longer duration. Please review the remainder of this announcement for additional information. We anticipate approximately fifty (50) awards under this competition.

**Due Date:** 6/1/2016

**Funding:** Total Program Funding: \$18,000,000 Award Ceiling: \$360,000 Award Floor: \$120,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282395>

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

**Program:** DoD Ovarian Cancer Academy - Early-Career Investigator Award

**Description:** The OCRP Ovarian Cancer Academy, which was initially created in FY09, is intended to be a unique, interactive virtual academy providing intensive mentoring, national networking, and a peer group for junior faculty. The overarching goal of the Ovarian Cancer Academy is to develop successful, highly productive ovarian cancer researchers in a collaborative research and career development environment. The Ovarian Cancer Academy is a virtual career development and research training platform that consists of Early-Career Investigators and their Designated Mentors from different institutions, and an Academy Dean and Assistant Dean. The Academy Leadership serves as a resource for the Early-Career Investigators and Mentors, assessing the progress of the Early-Career Investigators, and facilitating communication and collaboration among all of the Early-Career Investigators and Mentors, as well as with national research and advocacy communities.

**Due Date:** 8/10/2016

**Funding:** Total Program Funding: \$2,320,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282238>

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

**Program:** DoD Ovarian Cancer Clinical Development Award

**Description:** The OCRP Clinical Development Award is intended to provide support for the translation of promising preclinical findings into products for clinical applications, including prevention, detection, diagnosis, treatment, or quality of life. The goal of this award mechanism is to accelerate the clinical introduction of medical products and technologies that target ovarian cancer biology. Near-term clinical impact is expected. Proof-of-concept demonstrating the potential utility of the proposed product or a prototype/preliminary version of the proposed product should already be established; thus, preclinical studies in animals are not allowed. Small-scale clinical trials (Phase 0, Phase 1, Pilot), studies enriching a clinical trial, and projects related to or associated with ongoing or completed clinical trials are allowed. Relevant data, either published or unpublished, that support the study rationale are required.

**Due Date:** 8/10/2016

**Funding:** Total Program Funding: \$2,880,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282236>

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

**Program:** DoD Ovarian Cancer Investigator-Initiated Research Award

**Description:** The OCRP Investigator-Initiated Research Award is intended to support high-impact research that has the potential to make an important contribution to ovarian cancer or patient/survivor care. Research projects may focus on any phase of research, from basic laboratory research through translational research, excluding clinical trials. The application must demonstrate logical reasoning and a sound scientific rationale established through a critical review and analysis of the literature for the application to be competitive. Applications must include preliminary data that are relevant to ovarian cancer and support the proposed research project.

**Due Date:** 8/10/2016

**Funding:** Total Program Funding: \$4,320,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282237>

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

**Program:** DoD Ovarian Cancer Pilot Award

**Description:** The OCRP Pilot Award supports the exploration of innovative concepts or theories in ovarian cancer that could ultimately lead to critical discoveries or major advancements that will drive the field forward. The proposed research must demonstrate a clear focus on ovarian cancer (e.g., using tissues, cell lines, datasets, or appropriate animal models). The proposed research should include a testable hypothesis based on strong scientific rationale and serve as a catalyst to expand or modify current thinking about and/or approaches in ovarian cancer.

**Due Date:** 8/10/2016

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282242>

**Agency:** U.S. Department of Defense  
Office of Naval Research

**Program:** FY 2017 Defense University Research Instrumentation Program (DURIP)

**Description:** The Defense University Research Instrumentation Program (DURIP) is designed to improve the capabilities of accredited U.S. institutions of

higher education to conduct research and to educate scientists and engineers in areas important to national defense, by providing funds for the acquisition of research equipment or instrumentation. This announcement seeks proposals from universities to purchase equipment and instrumentation in support of research in areas of interest to the DoD. DoD interests include the areas of research supported by the Army Research Office, the Office of Naval Research, and the Air Force Office of Scientific Research. Each administering agency will make grant awards to fund the purchase of research equipment or instrumentation costing \$50,000 or more that cannot typically be purchased within the budgets of single-investigator awards. They intend to award approximately \$47 million in this competition. DURIP awards are typically one year in length and is part of the University Research Initiative (URI).

**Due Date:** 7/22/2016

**Funding:** Total Program Funding: \$47,000,000 Award Ceiling: \$1,500,000 Award Floor: \$50,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282527>

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

**Program:** Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship Program CFDA

**Description:** The Fulbright Hays DDRA Fellowship Program provides opportunities to doctoral candidates to engage in full-time dissertation research abroad in modern foreign languages and area studies. The program is designed to contribute to the development and improvement of the study of modern foreign languages and area studies in the United States. A research project that focuses on one or more of the following geographic areas: Africa, East Asia, Southeast Asia and the Pacific Islands, South Asia, the Near East, Central and Eastern Europe and Eurasia, and the Western Hemisphere (excluding the United States and its territories). Please note that applications that propose projects focused on the following countries are not eligible: Andorra, Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Liechtenstein, Luxembourg, Malta, Monaco, Netherlands, Norway, Portugal, San Marino, Spain, Sweden, Switzerland, United Kingdom, or Vatican City.

**Due Date:** 5/6/2016

**Funding:** Total Program Funding: \$3,011,504

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282425>

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

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

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

**Due Date:** 6/30/2016

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282403>

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

**Program:** Addressing Risk and Uncertainty in the Future Power System

**Description:** The nation's wholesale electricity markets and transmission planning are in a state of transition. The Department of Energy's Office of Electricity Delivery and Energy Reliability is interested in both operational and planning modeling and computation methodologies/techniques needed to support the future engineering and market functions required by these systems. Addressing risk and uncertainty is central to meeting the needs and ensuring reliability is a fundamental requirement of the system. There are three research areas for this announcement: a) wholesale market operations, b) transmission planning, and c) demand-side participation.

**Due Date:** 4/21/2016

**Funding:** Total Program Funding: \$1,800,000 Award Ceiling: \$360,000 Award Floor: \$200,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282405>

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

**Program:** Research and Development for Next Generation Nuclear Physics Accelerator Facilities



**Description:** The Nuclear Physics program supports a broad range of activities aimed at research and development related to the science, engineering, and technology of heavy-ion, electron, and proton accelerators and associated systems. NP operates three accelerator-based national user facilities in accomplishing its mission. These include the Relativistic Heavy Ion Collider at Brookhaven National Laboratory, the Continuous Electron Beam Accelerator Facility at the Thomas Jefferson National Accelerator Facility, and the Argonne Tandem Linac Accelerator System at Argonne National Laboratory. In addition, the NP program is constructing a next generation nuclear structure and nuclear astrophysics accelerator facility, the Facility for Rare Isotope Beams Facility at Michigan State University. RHIC is a storage ring-based collider with heavy ion beam energies up to 100 GeV/amu and polarized proton beam energies up to 250 GeV to study Quantum Chromodynamics through the study of hot, dense nuclear matter.

**Due Date:** 5/2/2016

**Funding:** Total Program Funding: \$1,870,000 Award Ceiling: \$1,870,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281934>

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

**Program:** Administrative Supplements to NIGMS Predoctoral Training Grants for Research Curriculum Development (Admin Supp)

**Description:** NIGMS supports T32 Institutional National Research Service Award (NRSA) predoctoral research training through programs in eleven different scientific disciplines and M.D.-Ph.D. training through its Medical Scientist Training Program. These programs are designed to enhance graduate research training in basic biomedical sciences relevant to the NIGMS mission. The overall goal of these programs is to promote fundamental, interdisciplinary and innovative research training essential for future biomedical researchers. NIGMS is taking steps to catalyze the modernization of graduate education to ensure that students receive adequate training early in graduate school to develop the skills required for the next generation of scientists. NIH has provided support for the development of training modules to enhance data reproducibility and to broaden training to reflect the range of career options trainees pursue; however, there remains a compelling need for enhanced training for predoctoral students to develop fundamental skills. The skills may range from the technical (e.g., quantitative and computational) to the operational (e.g. experimental design and interpretation of data) to the professional (e.g. communication and teamwork). NIGMS will accept applications for a one-time administrative supplement to existing NIGMS predoctoral T32

training grants for the development and implementation of curricular activities aimed at skills development.

**Due Date:** 5/18/2016

**Funding:** Total Program Funding: \$500,000 Award Ceiling: \$80,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282412>

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

**Program:** Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32)

**Description:** The National Institutes of Health will award Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32) to eligible, domestic institutions to enhance predoctoral and postdoctoral research training, including short-term research training, and help ensure that a diverse and highly trained workforce is available to meet the needs of the Nations biomedical, behavioral, and clinical research agenda. Research training programs will incorporate didactic, research, and career development elements to prepare individuals for careers that will have a significant impact on the health-related research needs of the Nation. Programs proposing only short-term research training should not apply to this announcement, but rather to the Kirschstein-NRSA Short-Term Institutional Research Training Grant Program (T35) exclusively reserved for predoctoral, short-term research training

**Due Date:** 6/6/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282528>

**Agency:** U.S. 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 (R01)

**Description:** This 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. The ultimate goals of this FOA are: 1) to gain knowledge regarding the pathogenesis and persistence of these oral conditions; and 2) to guide the development of novel oral immune modulatory therapies that will aid in re-building the oral immune system to reverse these diseases, mitigate their progression, prevent their occurrence, and eliminate persistence of residual HIV and other oral pathogens in reservoirs.

**Due Date:** 7/25/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282313>

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

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

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

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

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282324>

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

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

**Description:** The purpose of this Funding Opportunity Announcement (FOA) is to assist qualified laboratories to develop technical expertise in high resolution

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

**Due Date:** 6/7/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282195>

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

**Program:** NIGMS Program of Administrative Supplements for Equipment (Admin Supp)

**Description:** The National Institute of General Medical Sciences (NIGMS) announces the availability of funds for Administrative Supplements to NIGMS-funded R01, R37, P01, and U01 grants. These funds are intended for the purchase of single pieces of equipment with requested direct costs between \$50,000 and \$250,000. Equipment in this price range is often difficult to purchase under the parent grant. Two or more NIGMS grantees at the same institution with similar equipment needs are encouraged to submit separate requests (each between \$50,000 and \$250,000) that cross-reference each other. It is expected that the amount of funds requested for such joint purchases will reflect the actual proportion of the time that the shared equipment would be used by each PD/PI. However, under no circumstances may a joint request exceed \$400,000 direct costs. NIGMS encourages requests that reflect institutional commitment.

**Due Date:** 5/20/2016

**Funding:** Total Program Funding: \$10,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282098>

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

**Program:** Maximizing Investigator's Research Award (R35)

**Description:** Supporting fundamental research by funding individual projects has a number of consequences for the efficiency and effectiveness of the biomedical research enterprise in the U.S. To address these issues and increase the efficiency and efficacy of its funding mechanisms, NIGMS launched a pilot program that awards a single grant to provide support for the research in an investigator's laboratory that is related to the mission of NIGMS. It is anticipated that this new funding mechanism will achieve the following: Increase the stability of funding for NIGMS-supported investigators, which could enhance their ability to take on ambitious scientific projects and approach problems more creatively; Increase flexibility for investigators to follow important new research directions as opportunities arise, rather than being bound to specific aims proposed in advance of the studies; More widely distribute funding among the nation's highly talented and promising investigators to increase overall scientific productivity and the chances for important breakthroughs; Reduce the time spent by researchers writing and reviewing grant applications, allowing them to spend more time conducting research; and Enable investigators to devote more time and energy to mentoring junior scientists in a more stable research environment. In developing the Maximizing Investigator's Research Award (MIRA), NIGMS is committed to maintaining support for at least the current total number of NIGMS-funded investigators and their associated programs of research. The Institute will also work to ensure that it maintains a broad and diverse research portfolio in terms of scientific areas, approaches, regional and institutional distribution, and scientific workforce.

**Due Date:** 5/20/2016

**Funding:** Total Program Funding: \$50,000,000 Award Ceiling: \$750,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282100>

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

**Program:** NIH Director's Early Independence Awards (DP5)

**Description:** The NIH Director's Early Independence Awards provide an opportunity for exceptional junior scientists to accelerate their entry into an independent research career by forgoing the traditional post-doctoral training period. Though most newly graduated doctoral-level researchers would benefit by post-doctoral training, a small number of outstanding junior investigators would benefit instead by launching directly into an independent research career. For these select investigators, who have established a record of scientific innovation and research productivity and who have demonstrated unusual leadership, drive, and maturity, post-doctoral training would unnecessarily delay their entry into performing independent

research. The NIH Director's Early Independence Awards also provide an opportunity for institutions to invigorate their research programs by bringing in the fresh perspectives of the awardees that they host. By the end of the award period, the Early Independence investigator is expected to be competitive for continued funding of his/her research program and for a permanent research position. The NIH recognizes a unique and compelling need to promote diversity in the biomedical, behavioral, clinical and social sciences research workforce. The NIH expects all of its efforts to diversify the workforce to lead to the recruitment of the most talented researchers from all groups; to improve the quality of the educational and training environment; to balance and broaden the perspective in setting research priorities; to improve the ability to recruit subjects from diverse backgrounds into clinical research protocols; and to improve the Nation's capacity to address and eliminate health disparities.

**Due Date:** 9/12/2016

**Funding:** Total Program Funding: \$4,000,000 Award Ceiling: \$250,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282101>

**Agency:** U.S. Department of Justice  
Bureau of Justice Assistance

**Program:** Justice and Mental Health Collaboration Training and Technical Assistance Program

**Description:** The primary purpose of the Justice and Mental Health Collaboration Program (JMHCP) is to increase public safety by facilitating cross-system collaboration among the criminal justice, juvenile justice, and mental health and substance abuse treatment systems to increase access to mental health and other treatment services for adults and juveniles with MDs or CODs. Currently, there are 100 active JMHCP grantees, and BJA anticipates making 33 additional awards in 2016. Due to the flexibility of the JMHCP, BJA's grantees are varied and program areas include: law enforcement, courts, corrections, community supervision as well as social and behavioral health services. In 2015, BJA placed an increased emphasis on the utilization of best practices to improve law enforcement responses to people with MDs and CODs. BJA anticipates varied TTA expertise is needed to serve a multi-system cohort, and enhanced expertise is expected to meet the needs of BJA's law enforcement agencies as this area is a JMHCP priority consideration. Specific TTA expertise with law enforcement-focused responses to incidents involving mentally ill individuals is necessary to assist JMHCP grantees with developing, supporting and/or sustaining specialized police responses, and may require an ongoing partnership with (a) major national law

enforcement organization(s) for the delivery of enhanced law enforcement TTA services.

**Due Date:** 5/17/2016

**Funding:** Total Program Funding: \$600,000 Award Ceiling: \$600,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282269>

**Agency:** U.S. Department of Justice  
Bureau of Justice Statistics

**Program:** 2016 Visiting Fellows: Criminal Justice Statistics Programs

**Description:** The Bureau of Justice Statistics (BJS) Visiting Fellowship Program intended to facilitate collaboration between academic scholars and government researchers in survey methodology, statistics, economics, and social science. BJS Visiting Fellows are provided the unique opportunity to address substantive, methodological, and analytic issues relevant to BJS programs and to further knowledge about and understanding of the operation of the criminal justice system. BJS Visiting Fellows conduct projects that aim to enhance understanding of the operation of the criminal justice system and contribute to improving statistical programs. The BJS Visiting Fellow program offers researchers, survey methodologists, and statisticians an opportunity to conduct statistical research in a particular area of mutual interest to them and BJS, to examine innovative approaches to the analysis and dissemination of BJS data, and to interact with BJS staff and gain first-hand knowledge of developments in BJS statistical programs.

**Due Date:** 5/25/2016

**Funding:** Total Program Funding: \$600,000 Award Ceiling: \$600,000 Award Floor: \$200,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282521>

**Agency:** U.S. Department of Justice  
Bureau of Justice Assistance

**Program:** Justice and Mental Health Collaboration State-Based Capacity Building Program

**Description:** The primary purpose of the JMHCP is to increase public safety by facilitating collaboration among the criminal justice, juvenile justice, and mental health and substance abuse treatment systems to increase access to mental health and other treatment services for adult and juvenile

individuals with MDs or CODs. The primary goal of the Justice and Mental Health Collaboration State-Based Capacity Building Program (CBP) is to provide comprehensive resources and services to eligible but unfunded JMHCP applicants. In a 2015 report to help police implement public health strategies to reduce low-level arrests titled "First Do No Harm: Advancing Public Health in Policing Practices," the Vera Institute found that in 2013, 83 percent of the more than 11.3 million arrests made by police nationwide were for possession of a controlled substance, and this research estimates that 7-10 percent of all police interactions involve a person with a mental illness. In too many jurisdictions, jails are the only place where uninsured and underserved people can access health and social services.<sup>1</sup> By providing needed information to eligible, yet unfunded, communities through CBP, all jurisdictions may have access to important information to coordinate service delivery and improve their responses to, and improve outcomes for, individuals with MDs and CODs in contact with their justice systems.

**Due Date:** 5/19/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282442>

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

**Program:** OVW FY 2016 Research and Evaluation Program

**Description:** The Office on Violence Against Women is a component of the United States Department of Justice. Created in 1995, OVW implements the Violence Against Women Act and subsequent legislation and provides national leadership on issues of sexual assault, domestic violence, dating violence, and stalking. The purpose of the Research and Evaluation initiative is to research and evaluate approaches to combating domestic violence, sexual assault, dating violence, and stalking. By generating more knowledge about strategies for serving victims and holding offenders accountable, communities that benefit from VAWA funding will be better equipped to align their work with practices that are known to be effective, and they will be more capable of generating empirical knowledge on the efficacy of new and promising ways of doing things. R&E is designed to support researcher-practitioner partnerships and a broad range of research and evaluation methods, including qualitative, mixed-method, and quasi-experimental designs. Because OVW has very limited funds to support research and evaluation, this initiative prioritizes topics for which a stronger evidence base would help OVW grantees use federal funds most effectively.

**Due Date:** 5/2/2016



**Funding:** Total Program Funding: \$2,770,000 Award Ceiling: \$400,000 Award Floor: \$50,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282400>

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

**Program:** Research on "Sentinel Events" and Criminal Justice System Errors

**Description:** The purpose of the National Institute of Justice Research, Evaluation, and Development Projects grants program is to encourage and support research, development, and evaluation to improve criminal justice policy and practice in the United States. NIJ is interested in encouraging further research on a relatively new area of study in criminal justice research- an exploration of the use of sentinel event reviews to improve justice systems overall. Mistakes, or negative outcomes, in the criminal justice system are rarely caused by one single act or actor. Often, mistakes signal multiple weaknesses in the criminal justice system or process. Thus, corrections to such errors need to go beyond traditional remedies that focus on removing the "bad apple" responsible for the event to those that address the underlying system level problems that contributed to the event. Sentinel event review processes have been used in other fields, notably aviation and medicine, and NIJ would like to sponsor research projects that explore the use of these reviews in the criminal justice system.

**Due Date:** 5/17/2016

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282362>

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

**Program:** Comprehensive School Safety Initiative

**Description:** The Office of Justice Programs, National Institute of Justice is seeking applications for the Comprehensive School Safety Initiative (CSSI). This program furthers the Department's mission by funding rigorous research to produce practical knowledge that can improve the safety of schools and students. The Initiative is carried out through partnerships between researchers, educators, and other stakeholders, including law enforcement and mental health professionals. Projects funded under the CSSI are designed to produce knowledge that can be applied to schools and school districts across the nation for years to come. This solicitation

includes four funding categories with different expectations and requirements to accomplish the purposes of the CSSI.

**Due Date:** 5/27/2016

**Funding:** Total Program Funding: \$65,000,000 Award Ceiling: \$65,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282321>

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

**Program:** Research and Evaluation on Trafficking in Persons

**Description:** This solicitation seeks applications for funding for research and evaluation projects that will address the knowledge gaps related to trafficking in persons, with clear implications for criminal justice policy and practice in the United States. NIJ has been funding research on trafficking in persons for well over a decade, and particularly appreciates proposals mindfully developed to build off of and compliant existing research investments. NIJ's current portfolio of human trafficking research comprehensively addresses the crime through such focus areas as: scope, prevalence, and perpetration of the crime; effective criminal justice responses and challenges thereto; victimization experiences and how best to meet victim needs; and how best to reduce the demand for trafficking victims. Applicants should familiarize themselves with prior NIJ awards to address human trafficking and include relevant research in their literature review. For a summary of research projects on the subject of human trafficking,

**Due Date:** 5/9/2016

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

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282113>

**Agency:** U.S. Department of Justice  
Bureau of Justice Assistance

**Program:** Violence Reduction Network: National Training and Technical Assistance Program

**Description:** The goal of VRN is to provide assistance to state and local law enforcement and criminal justice professionals in select jurisdictions to improve the level of knowledge, communication, collaboration, and tactics involved in addressing the violent crime that affects cities throughout the nation. VRN is supported by research and evidence-based practices and strategies. The program combines the leadership of DOJ and the

expertise of nationally recognized criminal justice practitioners and action research experts to deliver a wide variety of TTA to participating sites.

**Due Date:** 5/5/2016

**Funding:** Total Program Funding: \$5,500,000 Award Ceiling: \$3,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282023>

**Agency:** National Endowment for the Humanities

**Program:** Preservation and Access Education and Training Grants

**Description:** The Preservation and Access Education and Training program is central to NEH's efforts to preserve and establish access to cultural heritage collections. Thousands of libraries, archives, museums, and historical organizations across the country maintain important collections of books and manuscripts, photographs, sound recordings and moving images, archaeological and ethnographic artifacts, art and material culture collections, electronic records, and digital objects. The challenge of preserving and making accessible such large and diverse holdings is enormous, and the need for knowledgeable staff is significant and ongoing. Preservation and Access Education and Training grants are awarded to organizations that offer national or regional education and training programs that reach audiences in more than one state. Grants aim to help the staff of cultural institutions, large and small, obtain the knowledge and skills needed to serve as effective stewards of humanities collections. Grants also support educational programs that prepare the next generation of preservation professionals, as well as projects that introduce the staff of cultural institutions to new information and advances in preservation and access practices.

**Due Date:** 5/3/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282106>

**Agency:** National Science Foundation

**Program:** US Ignite

**Description:** US Ignite is an initiative that seeks to promote US leadership in the development and deployment of next-generation gigabit applications with the potential for significant societal impact. The primary goal of US Ignite is to break a fundamental deadlock: there is insufficient investment in gigabit applications that can take advantage of advanced network infrastructure because such end-to-end infrastructure is rare and

geographically dispersed. And conversely, there is a lack of broad availability of advanced broadband infrastructure for open experimentation and innovation because there are few advanced applications and services to justify it. US Ignite aims to break this deadlock by providing incentives for imagining, prototyping, and developing gigabit applications that address national priorities, and by leveraging and extending this network testbed across US college/university campuses and cities. This solicitation builds on the experience and community infrastructure gained from initial US Ignite activities to further engage the US academic research and non-profit communities along with local cities, municipalities, and regions in exploring the challenges of developing and applying next-generation networking to problems of significant public interest and benefit. In particular, this solicitation has two focus areas: the first encourages the development of application ideas and prototypes addressing national priority areas that explore new uses for high-speed networks and give rise to the Smart & Connected Communities of the future, as well as novel networking and application paradigms; and the second pursues fundamental research advances in networking technology and protocols that will further both the capabilities and our understanding of gigabit networking infrastructure to meet current and future application demands. In 2016, NSF is also working with the U.S. Department of Justice Office for Access to Justice to identify additional application ideas and prototypes and basic research directions that may serve national priority areas of mutual interest.

**Due Date:** 6/14/2016

**Funding:** Total Program Funding: \$10,000,000 Award Ceiling: \$3,000,000 Award Floor: \$600,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282282>

**Agency:** National Science Foundation

**Program:** Cybermanufacturing Systems

**Description:** The Cybermanufacturing Systems (CM) Program supports fundamental research to enable the evolution of a wide range of network-accessed manufacturing services. There is an opportunity for researchers to pursue research and educational efforts to accelerate the creation of an interoperating, cross-process manufacturing service layer that enables the rapid, bottom-up transformation of access to manufacturing services. Such a service layer can allow creative entrepreneurs and companies to both furnish and access manufacturing apps that span the full spectrum from ideation to physical realization. The cybermanufacturing service layer differs from existing Internet services in that it needs an architecture that can incrementally incorporate and organize the rich and deep semantic

elements of manufacturing knowledge, requiring an almost unlimited capacity to expand the range and depth of content contributed in the form of partitioned, but interoperating, manufacturing applications. Such efforts are well-suited to incubation in universities, where potential service layer architectures and application modules can be prototyped at low cost, used in coursework and tested by students and faculty. Of particular interest is the exploration of the tradeoffs between generality and tractability in algorithmic representations of manufacturing knowledge.

**Due Date:**

**Funding:** Total Program Funding: \$3,000,000 Award Ceiling: \$600,000 Award Floor: \$10,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282210>

**Agency:** National Science Foundation

**Program:** Science Learning+ Partnership Grants

**Description:** The aims of Science Learning+ are to strengthen the research and knowledge base; bridge the practice and research gap; and/or share knowledge and experience in informal science, technology, engineering and mathematics (STEM) experiences. Furthermore, the initiative seeks to support practice-based research which falls within or across the following priority areas: understanding learning; engagement in STEM; skills development; equity; diversity; access to informal learning settings; and measurement of outcomes. Proposals must address at least one priority area and include: collaborations between at least one organization in the US and one in the UK/Republic of Ireland. In addition, the proposal should include a substantive research program, not solely a public engagement activity; genuine partnerships between researchers and practitioners of STEM engagement; experts from more than one STEM area; and more than one informal STEM learning location, platform, or environment. Proposers should submit a single, comprehensive proposal with two budget components, one for US activities and one for UK/Republic of Ireland activities, to NSF.

**Due Date:** 6/14/2016

**Funding:** Total Program Funding: \$12,000,000 Award Floor: \$2,400,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281827>

**Agency:** National Science Foundation

**Program:** Broadening Participation in Engineering

**Description:** The Broadening Participation in Engineering (BPE) Program is a Directorate-wide initiative dedicated to supporting the development of a diverse and well-prepared engineering workforce. Across every educational juncture (e.g., elementary, secondary, and postsecondary levels), efforts to improve engineering interests, preparation, connections, experiences, and opportunities among underrepresented groups is of major importance to BPE. In FY 2016, aligned with NSF-wide, BPE is interested in funding projects that bring together multiple groups (e.g., school districts, community colleges, engineering schools, industry, philanthropy, government, etc.) and offer the greatest return on investment by producing outcomes that are scalable, sustainable, and applicable to various contexts, settings, and demographics within the engineering enterprise. For example, it is interested research projects that help us to analyze and understand the problem of insufficient interest and poorly sustained participation in engineering across underrepresented demographic groups; insignificant preparation and scarce opportunities for members of underrepresented demographic groups to learn meaningful, relevant engineering and other STEM-related content; insufficient access to support systems and social networks that raises career awareness about different engineering pathways among underrepresented groups; and structural inequalities and biases within educational and workforce systems that may influence engineering persistence.

**Due Date:** 6/16/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282552>

**Agency:** National Science Foundation

**Program:** Structural and Architectural Engineering and Materials (SAEM) program

**Description:** The overall goal of the Structural and Architectural Engineering and Materials (SAEM) program is to enable sustainable buildings and other structures that can be continuously occupied and/or operated during the structure's useful life. The SAEM program supports fundamental research for advancing knowledge and innovation in structural and architectural engineering and materials that promotes a holistic approach to analysis and design, construction, operation, maintenance, retrofit, and repair of structures. For buildings, all components including the foundation-structure-envelope (the façade, curtain-wall and roofing) and interior systems, are of interest to the program. Research in new engineering concepts and design paradigms for buildings that have significantly reduced dependence and interdependence on municipal infrastructure through, for example, self-hydrating (closed-loop water system) and self-heating-cooling-ventilating (energy usage) is encouraged. In addition, the

program targets research in the building systems that are reconfigurable for rapid construction, disassembly and disposal, are reliable and resilient, and are less complex. Research topics of interest for sustainable structures include the following: strategies for structures that over their lifecycle are cost-effective, make efficient use of resources and energy, and incorporate sustainable structural and architectural materials; mitigation of deterioration due to fatigue and corrosion; serviceability related to large deflections and vibrations; and advances in physics-based computational modeling and simulation. Research is encouraged that integrates discoveries from other science and engineering fields, such as materials science, building science, mechanics of materials, dynamic systems and control, reliability, risk analysis, architecture, economics and human factors.

**Due Date:** 9/15/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282462>

**Agency:** National Aeronautics and Space Administration

**Program:** Research Opportunities in Space Biology (ROSBio) – 2016 “GeneLab Innovation Awards for Translational Systems Biology and Informatics Research Using the GeneLab Data System”

**Description:** This NRA solicits research that utilizes the GeneLab Data System to translate spaceflight research data into new knowledge relating to the responses of living systems in the spaceflight environment. Proposals are required to use the GeneLab Data System, on its own, or in combination with other public spaceflight and ground-based omics databases. Proposals are sought that address two specific research emphases: a) Systems Biology Informatics Research Using the GeneLab Data System: Proposals should be designed to develop new computational biology tools that will enable users to perform novel informatics research that enhance the usability and value of GeneLab for all future open science-based investigations. b) Systems Biology Experimental Research Using the GeneLab Data System: Proposals are invited for ground-based hypothesis-driven research investigations that are derived from analyzing the data in the GeneLab Data System. Proposals must translate the spaceflight derived data in the GeneLab database into new knowledge that addresses the objectives of NASA’s life sciences missions and contributes new data and information to GeneLab. NASA anticipates that up to 3 awards will be made for the research requested in this NRA and that each grant will last 1-2 years for a total cost of \$250K

**Due Date:** 6/28/2016

**Funding:** Total Program Funding: See Announcement

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282492>

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

**Program:** Investigator-Initiated Research and Evaluation on Firearms Violence

**Description:** NIJ seeks investigator-initiated applications for funding for research and evaluation related to reducing firearms violence and understanding the causes and effects of firearms violence. This solicitation aims to strengthen our knowledge base and improve public safety by producing findings with practical implications for reducing firearms violence. This solicitation is focused specifically on producing research related to intentional, interpersonal firearms violence. NIJ is particularly interested in supporting research related to the following three areas identified in the 2013 report by the Institute of Medicine and National Research Council titled Priorities for Research to Reduce the Threat of Firearm-Related Violence: (1) the characteristics of firearm violence; (2) risk and protective factors; and (3) interventions and strategies.

**Due Date:** 5/13/2016

**Funding:** Total Program Funding: \$3,000,000 Award Ceiling: \$3,000,000

**Website:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=282208>