

## Funding Bulletin

December 18<sup>th</sup>, 2015 (Vol. 3, No. 6)

### Funding Information

To receive funding information, please contact [funding@wichita.edu](mailto:funding@wichita.edu).

NOTICE – Notification for the current Funding Bulletin is sent via email. To be added to the electronic mailing list, send an email message to: [funding@wichita.edu](mailto:funding@wichita.edu). Leave the subject line blank. In the message area, type: *sub funding bulletin*. To unsubscribe, type: *unsub funding bulletin*.

The selected compilation of funding opportunities is provided by RTT's Pre-Award Services as a resource for Wichita State University Researchers. We encourage you to utilize the campus subscription to PIVOT to find funding opportunities specifically tailored to your research area based on keywords you provide. PIVOT is easy to use and offers other valuable services that are helpful to researchers. Access is available at: <http://pivot.cos.com/home/index> or you may contact [funding@wichita.edu](mailto:funding@wichita.edu) to have a custom search ran.

**Please note, due to the Holiday Closedown, there will be no January 1<sup>st</sup>, 2016 edition.  
Biweekly editions will resume on January 15<sup>th</sup>, 2016.**

Click on the links below to go directly to the named section included in this edition's bulletin

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### How to Apply

Proposal development requests should be sent to [proposals@wichita.edu](mailto:proposals@wichita.edu). Please click on the following link for information regarding proposal submission at WSU:

<http://webs.wichita.edu/?u=WSURESEARCHADMIN&p=/Proposals/PreAwardServices/>

A bi-weekly publication of the Office of Research and Technology Transfer. For additional information or to request a customized funding opportunity search, please contact [funding@wichita.edu](mailto:funding@wichita.edu).

## WORKSHOPS

For more information contact Jana Henderson at [jana.henderson@wichita.edu](mailto:jana.henderson@wichita.edu) or 978-3285.

WORKSHOP TITLE	DATE	TIME	ROOM	DESCRIPTION
<b>Cayuse 101 Open Lab</b>	Jan. 20	1:30-3:00 p.m.	405 Jardine	The Office of Research is holding an open lab for faculty and staff interested in submitting research proposal applications to the federal government through Cayuse. Cayuse is a system-to-system web application that allows WSU to submit proposals to over 98% of the opportunities posted on <a href="http://grants.gov">grants.gov</a> . WSU's Office of Research subscribes to this valuable service, which checks grant applications for errors and allows researchers and the Office of Research staff to collaborate on the proposal application directly. If you are interested in a demonstration of this system, please plan to attend this open lab – <b><i>This is a come and go lab and no registration is required.</i></b>
<b>Writing Proposals: Clear, Concise, Consistent (and Successful!) Proposals</b>	Feb. 19	1:30-3:00 p.m.	266 Pike (RSC)	The Office of Research is again presenting its popular workshop on writing proposals. This workshop will provide grant writing tips and resources to utilize. Funders and their reviewers want proposals that are clear, concise and consistent. Come to this workshop to learn some hands-on approaches to improving your grant-writing skills. <b><i>To register, go to myTraining channel in myWSU.</i></b>
<b>Contracts and Agreements: Getting to a “Win-Win” Agreement</b>	March 23	2:30-4:00 p.m.	405 Jardine	Did you know that the Office of Research is tasked with developing and negotiating agreements with external funders and others, and not just grants? This workshop will help you to identify when a contract or agreement might be required, how to obtain one, and to know more about terms and conditions that the University may or may not be able to accept. Subcontracts and agreements paid out of grant funds will also be discussed. <b><i>To register, go to myTraining channel in myWSU.</i></b>

## LIMITED SUBMISSIONS

Limited submission programs have sponsor restrictions on the number of proposals that may be submitted by a single institution and will require institutional screening to determine which applications will be submitted. Karen Davis, Director of Pre-Award Services, is the internal coordinator for limited submission programs. Please notify [proposals@wichita.edu](mailto:proposals@wichita.edu), by the internal due date listed in the Funding Bulletin if you wish to submit a limited submission program. There are currently two open limited submission competitions:

### **(1) Scalable Nanomanufacturing (SNM)**

*National Science Foundation (NSF)*

**Due Date: Internal 1/15/2016; Full Proposal 2/16/2016**

The National Science Foundation (NSF) announces a 6<sup>th</sup> (sixth) year of a solicitation on collaborative research and education in the area of Scalable Nanomanufacturing (SNM). This solicitation is in response to and is a component of the NNI Signature Initiative: Sustainable Nanomanufacturing - Creating the Industries of the Future (<http://www.nano.gov/NSINanomanufacturing>). Although many nanofabrication techniques have demonstrated the ability to fabricate small quantities of nanomaterials and nanostructures for characterization and evaluation purposes, the emphasis of the Scalable Nanomanufacturing (SNM) solicitation is on research on new manufacturing processes and methods to overcome the key scientific and engineering barriers that prevent the production of useful nanomaterials and nanostructures and their integration into nanodevices and nanosystems at an industrially relevant scale, reliably, and at low cost and within sustainability and environmental, health and safety (EHS) guidelines. Proposals should target nanomanufacturing processes with a clear commercial relevance, and should consider addressing key aspects of the nanomanufacturing value chain of nano-scale building-blocks to complex nanostructures to functional devices to integrated systems:

- Novel scalable processes and techniques for large-area or continuous manufacturing of nano-scale materials and structures and their assembly and integration into higher order structures, devices and systems;
- Fundamental scientific research in key, well-defined technical areas that are compellingly justified as approaches to overcome critical scientific and engineering barriers to scale-up and integration; and
- Design principles for production systems leading to nanomanufacturing tools, systems and platforms; identification of metrology, instrumentation, standards and control methodologies needed for process control and to assess quality and yield; identification of environmental and energy footprints, as applicable.

Competitive proposals will incorporate three elements in their research plans:

1. A persuasive case that the nanomaterials, nanostructures, nanodevices or nanosystems to be manufactured have or are likely to have sufficient demand to justify eventual scale-up;
2. A clearly identified set of research issues requiring science and engineering solutions that must be addressed to enable the manufacture of high quality nano-enabled products in large quantities and at low cost; and
3. A compelling research plan with clear objectives and approaches to overcome the identified research issues.

These elements should be carefully explained and justified in proposals, since both the scientific novelty and the feasibility of the methods being researched will be important evaluation factors.

Competitive proposals are expected to address the training and education of students in nanomanufacturing and related areas. Since Scalable Nanomanufacturing research will involve addressing multiple scientific challenges, an inter-disciplinary approach is strongly encouraged. Disciplines could range from mathematics to the physical sciences to engineering. While not required, collaborative activities with industrial or small business companies are welcome and collaborations in which industrial partners develop industrially relevant test-beds where university and company researchers can experiment and interact are encouraged. It is advisable that such firms be consulted early in the proposal preparation process and that their intellectual contributions be clearly explained in the proposal. Other research and education projects in nanoscale science and engineering will continue to be supported in the appropriate programs and divisions. Please see requirements for submitting proposals for collaborations; a single proposal with sub-contracts must be submitted for collaborations and the submission of separate proposals from multiple investigators for collaborative projects ('collaborative proposals') is not allowed. ***An academic institution -- a university, or a campus in a multi-campus university -- may submit no more than one (1) proposal on which it is the lead organization in response to this solicitation. The same organization may be a collaborative partner in any number of other multi-organization group proposals in which it is not the lead. NSF 16-513***

- URL: <http://www.nsf.gov/pubs/2016/nsf16513/nsf16513.htm>

## **(2) Major Research Instrumentation (MRI) Program**

*National Science Foundation (NSF)*

**Due Date: 1/13/2016**

The Major Research Instrumentation Program (MRI) serves to increase access to shared scientific and engineering instruments for research and research training in our Nation's institutions of higher education, not-for-profit museums, science centers and scientific/engineering research organizations. The program provides organizations with opportunities to acquire major instrumentation that supports

the research and research training goals of the organization and that may be used by other researchers regionally or nationally. Each MRI proposal may request support for the acquisition (Track 1) or development (Track 2) of a single research instrument for shared inter- and/or intra-organizational use. Development efforts that leverage the strengths of private sector partners to build instrument development capacity at MRI submission-eligible organizations are encouraged. The MRI program assists with the acquisition or development of a shared research instrument that is, in general, too costly and/or not appropriate for support through other NSF programs. The program does not fund research projects or provide ongoing support for operating or maintaining facilities or centers. **Limit of three proposals per organization. NSF 15-504**

- URL: <http://www.nsf.gov/pubs/2015/nsf15504/nsf15504.htm>

## INTERNAL OPPORTUNITIES

The next internal opportunities available will be: 1) Award for Research/Creative Projects (ARCS) with a February 6, 2016 deadline and 2) Flossie E. West Foundation Award due March 4, 2016.

For more information, visit

<http://webs.wichita.edu/?u=wsuresearchadmin&p=/ORAIInternalGrants/ORAIInternalGrants/>

Check back at the beginning of the year for updated instructions and application forms for both opportunities.

## GENERAL

### Science of Science and Innovation Policy (SciSIP)

*National Science Foundation (NSF)*

**Due Dates: 2/9/2016, 9/9/2016**

The Science of Science & Innovation Policy (SciSIP) program supports research designed to advance the scientific basis of science and innovation policy. The program funds research to develop models, analytical tools, data and metrics that can be applied in the science policy decision making process and concern the use and allocation of scarce scientific resources. For example, research proposals may

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develop behavioral and analytical conceptualizations, frameworks or models that have applications across the broad array of science and innovation policy challenges. Proposals may also develop methodologies to analyze science, technology and innovation data, and to usefully convey that information to a variety of audiences. Proposals that create and improve science, engineering and innovation data, including the design of new metrics and indicators, particularly proposals that demonstrate the viability of collecting and analyzing data on knowledge generation and innovation in organizations, are encouraged. The SciSIP program welcomes proposals from individual or multi-investigator research projects, doctoral dissertation improvement awards, experimental research, and data collection and dissemination. The SciSIP program places a high priority on interdisciplinary research. The program places a high priority on broadening participation and encourages proposals from junior faculty, women, other underrepresented minorities, Research Undergraduate Institutions, and EPSCoR states. The program also supports small grants that are time-critical and small grants that are high-risk and of a potentially transformative nature. **PD 09-7626**

- URL: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501084](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501084)

## **Project Funding**

*Jacobs Foundation*

### **Due Date: Preliminary Proposals accepted continually**

Project proposals may be submitted for research, intervention research and intervention. The Foundation is convinced that social innovations to improve the living conditions of young people are one of the key prerequisites for the social change that is needed in human societies. Its projects are thus aimed at the development and alignment of new and sustainable approaches in the field of child and youth development. The Foundation supports innovative basic research, application-oriented intervention research and also practical projects in all fields of importance for child and youth development. In its project funding, the Foundation works together closely with partners in a spirit of trust so as to best ensure a high scientific quality as well as practical relevance and effectiveness.

- URL: <http://jacobsfoundation.org/what-we-do/project-funding/>

## ARTS & HUMANITIES

### Grants and Fellowships

*American Historical Association (AHA)*

**Due Date: 2/15/2016**

Each year, the American Historical Association awards several research grants with the aim of advancing the study and exploration of history in a diverse number of subject areas. All grants are offered annually and are intended to further research in progress. Grants may be used for travel to a library or archive; microfilming, photography, or photocopying; borrowing or access fees; and similar research expenses—a list of purposes that is meant to be merely illustrative, not exhaustive (other expenses, such as child care, can be included). **Only AHA members are eligible to apply for AHA research grants.**

- URL: <http://www.historians.org/awards-and-grants/grants-and-fellowships>

### Digital Humanities Implementation Grants

*National Endowment for the Humanities (NEH)*

**Due Date: 2/17/2016**

This program is designed to fund the implementation of innovative digital-humanities projects that have successfully completed a start-up phase and demonstrated their value to the field. Such projects might enhance our understanding of central problems in the humanities, raise new questions in the humanities, or develop new digital applications and approaches for use in the humanities. The program can support innovative digital-humanities projects that address multiple audiences, including scholars, teachers, librarians, and the public. Applications from recipients of NEH's Digital Humanities Start-Up Grants are welcome. Unlike NEH's start-up grant program, which emphasizes basic research, prototyping, experimentation, and potential impact, the Digital Humanities Implementation Grants program seeks to identify projects that have successfully completed their start-up phase and are well positioned to have a major impact. Proposals are welcome for digital initiatives in any area of the humanities.

#### **Digital Humanities Implementation Grants may involve:**

- research that brings new approaches or documents best practices in the study of the digital humanities;
- implementation of computationally-based methods or techniques for humanities research;

- implementation of new digital tools for use in humanities research, public programming, or educational settings;
- efforts to ensure the completion and long-term sustainability of existing digital resources (typically in conjunction with a library or archive);
- scholarship that examines the history, criticism, and philosophy of digital culture and its impact on society;
- scholarship or studies that examine the philosophical or practical implications of the use of emerging technologies in specific fields or disciplines of the humanities, or in interdisciplinary collaborations involving several fields or disciplines; or
- implementation of new digital modes of scholarly communication that facilitate peer review, collaboration, or the dissemination of humanities scholarship for various audiences.

Successful projects must make digital innovations and be significant to the humanities. All projects must already have completed a start-up phase prior to application.

NEH invites projects related to its new initiative, The Common Good: The Humanities in the Public Square. This initiative seeks to connect the study of the humanities to the current conditions of national life. Many of today's challenges require more than ever the forms of understanding and knowledge represented by the humanities. They require the broadest possible engagement of scholars and the public with the resources of the humanities, including but not limited to the study of language, literature, history, philosophy, comparative religion, and ethics. The study of the humanities can help illuminate the complexity of many contemporary challenges while enriching our understanding of the common good.

- URL: <http://www.neh.gov/grants/odh/digital-humanities-implementation-grants>

## **NEA Art Works, FY 2016**

*National Endowment for the Arts (NEA)*

**Due Date: 2/19/2016, 7/23/2016 (anticipated)**

The guiding principle of "Art Works" is at the center of everything the NEA does. "Art Works" refers to three things: the works of art themselves, the ways art works on audiences, and the fact that art is work for the artists and arts professionals who make up the field. Art works by enhancing the value of individuals and communities, by connecting us to each other and to something greater than ourselves, and by empowering creativity and innovation in our society and economy. The arts exist for beauty itself, but they also are an inexhaustible source of meaning and inspiration. The NEA recognizes these catalytic effects of excellent art, and the key role that arts and design organizations play in revitalizing them. To deepen and extend the arts' value, including their ability to foster new connections and to exemplify creativity and innovation, **NEA welcomes projects that:**



- Are likely to prove transformative with the potential for meaningful change, whether in the development or enhancement of new or existing art forms, new approaches to the creation or presentation of art, or new ways of engaging the public with art;
- Are distinctive, offering fresh insights and new value for their fields and/or the public through unconventional solutions; and
- Have the potential to be shared and/or emulated, or are likely to lead to other advances in the field.

Beyond encouraging projects that demonstrate these characteristics, we want to achieve the following four objectives through the Art Works category:

- Creation: The creation of art that meets the highest standards of excellence,
- Engagement: Public engagement with diverse and excellent art,
- Learning: Lifelong learning in the arts, and
- Livability: The strengthening of communities through the arts.

- URL: <https://www.arts.gov/grants-organizations/art-works/application-calendar>

## BUSINESS

### RICE Business Plan Competition

*Rice University – Rice Alliance for Technology and Entrepreneurship*

**Due Date: 2/19/2016**

The Rice Business Plan Competition is the world's richest and largest graduate-level student startup competition. It is hosted and organized by the Rice Alliance for Technology and Entrepreneurship, which is Rice University's internationally-recognized initiative devoted to the support of entrepreneurship, and the Jesse H. Jones Graduate School of Business. This is the 16th year for the competition. In that time, it has grown from nine teams competing for \$10,000 in prize money in 2001, to 42 teams from around the world competing for more than \$1.5 million in cash and prizes.

The competition is designed to give collegiate entrepreneurs a real-world experience to fine tune their business plans and elevator pitches to generate funding to successfully commercialize their product. Judges will evaluate the teams as real-world entrepreneurs soliciting start-up funds from early stage investors and venture capital firms. The judges are asked to rank the presentations based on which company they would most likely invest. 76% of judges surveyed considered investing in a team that presented at the 2015 RBPC or referred a team to a third-party investor.

- URL: <http://www.ricebusinessplancompetition.com/about.html>

**FY 2016 – FY 2019 EDA Planning Program and Local Technical Assistance Program**  
*U.S. Department of Commerce (DOC) - Economic Development Administration (EDA)*  
**Due Date: Applications accepted on a rolling basis**

Notice seeking applications for the Planning and Local Technical Assistance programs. Under the Planning program, EDA assists eligible recipients in creating regional economic development plans designed to build capacity and guide the economic prosperity and resiliency of an area or region. The Local Technical Assistance program strengthens the capacity of local or State organizations, institutions of higher education, and other eligible recipients to undertake and promote effective economic development programs through projects such as feasibility analyses and impact studies.

**EDA-HDQ-TA-HDQ-2016-2004759**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280447>

## EDUCATION

**Research Grants Program**  
*American Educational Research Association (AERA)*  
**Due Date: 1/20/2016**

With support from the National Science Foundation (NSF), the AERA Grants Program announces its Research Grants competition. The program seeks to stimulate research on U.S. education issues using data from the large-scale, national and international data sets supported by the National Center for Education Statistics (NCES), NSF, and other federal agencies, and to increase the number of education researchers using these data sets. The program supports research projects that are quantitative in nature, include the analysis of existing data from NCES, NSF or other federal agencies, and have U.S. education policy relevance. AERA invites education-related research proposals using NCES, NSF, and other federal databases. Research Grants are available for faculty at institutions of higher education, postdoctoral researchers, and other doctoral-level scholars. Applications are encouraged from a variety of disciplines, such as but not limited to, education, sociology, economics, psychology, demography, statistics, and psychometrics. The Governing Board for the AERA Grants Program has established the following four strands of emphasis for proposals. **Applicants are encouraged to submit proposals that:**

- develop or benefit from new quantitative measures or methodological approaches for addressing education issues;
- include interdisciplinary teams with subject matter expertise, especially when studying science, technology, engineering and mathematics (STEM) learning;
- analyze TIMSS, PISA, or other international data resources; and
- include the integration and analysis of more than one data set.

Research projects related to at least one of the strands above and to science and/or mathematics education are especially encouraged. Other topics of interest include policies and practices related to student achievement in STEM, contextual factors in education, educational participation and persistence (kindergarten through graduate school), early childhood education, and postsecondary education. The research project must include the analysis of data from at least one of the large-scale, nationally or internationally representative data sets supported by NCES, NSF, or other federal agency, such as the U.S. Department of Labor, the U.S. Census Bureau, and the National Institutes of Health. The data set(s) of interest must be available for analysis at the time of application (public- or restricted-use files are permissible). Additional data sets may be used in conjunction with the obligatory federal data set. If international data sets are used, the study must include U.S. education.

- URL: <http://www.aera.net/ProfessionalOpportunitiesFunding/FundingOpportunities/AERAGrantsProgram/ResearchGrants/tabid/12813/Default.aspx>

### **Unsolicited Grant Opportunities**

*United States Department of Education (ED) - Institute of Education Sciences (IES)*

**Due Date: 3/5/2016 (anticipated)**

The Institute of Education Sciences (IES) announces its willingness to consider unsolicited applications for research, evaluation, and statistics projects that would make significant contributions to the mission of the organization. IES' mission is to expand fundamental knowledge and understanding of education and to provide education leaders and practitioners, parents and students, researchers, and the general public with unbiased, reliable, and useful information about the condition and progress of education in the United States; about education policies, programs, and practices that support learning and improve academic achievement and access to educational opportunities for all students; and about the effectiveness of Federal and other education programs. Under this announcement, IES could consider two different types of unsolicited applications. The first type includes projects that are not eligible under IES' current grant competitions. IES' current grant competitions are those for the fiscal year, both open and closed, which are described at <http://ies.ed.gov/funding/>. For this type of application, the applicant must demonstrate that the project would not be eligible under one of IES' current grant competitions. The second type of unsolicited application includes research that can be carried out in a

short period of time with limited resources to address time-sensitive research questions, where the window to obtain data and carry out a project is short and the project would not be feasible under IES' current grant competition timelines. For this type of application, the applicant must demonstrate that this project would not be feasible under IES' regular funding cycle. Potential applicants should be aware that IES does not provide funds for projects that consist solely of program delivery or the provision of services. In addition, activities supported by IES must be relevant to U.S. schools.

- URL: <http://ies.ed.gov/funding/unsolicited.asp>

## ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

### **C3E Women in Energy - Clean Energy Education & Empowerment Awards**

*Advanced Research Projects Agency (ARPA)*

**Due Date: Nominations 1/8/2016**

The U.S. C3E Awards recognize outstanding mid-career women who are advancing clean, renewable sources of energy, related technologies, or clean energy policy. Each winner will receive \$8,000 and national recognition at the annual C3E Symposium. Awards honor mid-career leadership and achievement in 8 categories: Advocacy, Business, Education, Entrepreneurship, Government, International, Law & Finance, and Research.

- URL: <http://c3eawards.org/>

### **2016 Request for Pre-Proposals**

*Kansas NASA EPSCoR (KNEP)*

**Due Date: Pre-Proposals 1/15/2016**

The Kansas NASA EPSCoR Program (KNEP) is seeking pre-proposals for eventual submission to a NASA Cooperative Agreement Notice (CAN). The CAN opportunity includes up to \$750,000 in funding for three years. All NASA EPSCoR monies must be cost-shared at a level of at least 50% with non-federal monies. In-kind cost-sharing is allowable.

The CAN efforts must:

- Contribute to and promote the development of research capability in NASA EPSCoR jurisdictions (e.g., Kansas) in areas of strategic importance to the NASA mission;

- Improve the capabilities of the NASA EPSCoR jurisdictions to gain support from sources outside the NASA EPSCoR program;
  - Develop partnerships between NASA research assets, academic institutions, and industry;
  - Contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of NASA EPSCoR jurisdictions; and
  - Work in close coordination with the Space Grant consortium in the jurisdiction to improve the environment for science, technology, engineering and mathematics (STEM) education.
- [URL: http://webs.wichita.edu/depttools/depttoolsmemberfiles/joe/KSNASAEPSCoRRFPSpring2016.pdf](http://webs.wichita.edu/depttools/depttoolsmemberfiles/joe/KSNASAEPSCoRRFPSpring2016.pdf)

### **Summer Undergraduate Research Fellowship (SURF) Program**

*U.S. Department of Commerce (DOC) - National Institute of Standards and Technology (NIST)*

**Due Date: 2/12/2016**

The SURF Program will provide research opportunities for undergraduate students to work with NIST scientists and engineers, to expose them to cutting-edge research and promote the pursuit of graduate degrees in science and engineering. The SURF Program provides an opportunity for the NIST laboratories to encourage outstanding undergraduate students to pursue careers in science and engineering. The objective of the SURF Program is to build a mutually beneficial relationship among the student, the academic institution, and NIST. The SURF Program is conducted in English and will provide research opportunities for students to work with NIST scientists and engineers, to expose them to cutting-edge and world-class research, and to promote the pursuit of graduate degrees in science and engineering. It is expected that 4 the students participating in the SURF Program will have a proficiency in writing and speaking English, the ability to live and work with others, a commitment to honesty, and an interest in learning measurement metrology and using their own innovativeness to develop new science. SURF students will have the opportunity to work one-on-one with NIST scientists and engineers. In addition, SURF students may have opportunities to voluntarily participate as subjects in minimal-risk NIST research experiments, for example, an evaluation of the quality, whiteness, and color rendering of different correlated color temperatures of solid-state lamps in the NIST Spectrally Tunable Light Facility. It is anticipated that successful SURF students will move from a position of reliance on guidance from their NIST research advisors to one of research independence during the program period. One goal of the SURF Program is to provide opportunities for our nation's next generation of scientists and engineers to engage in scientific research of the highest caliber at NIST, especially in ground-breaking areas of emerging technologies. This carries with it the hope of motivating individuals to pursue Ph.D.s in biology, chemistry, computer science, engineering, materials science, mathematics, nanoscale science, neutron research, and/or physics, and to consider research careers.

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280404>

### **Emerging Leader Award**

*Society of Women Engineers (SWE)*

**Due Date: 3/31/2016 (anticipated)**

The Society of Women Engineers strives to advance and honor the contributions of women at all stages of their careers as well as recognize the successes of SWE members and individuals who enhance the engineering profession through contributions to industry, education and the community. This award honors any woman engineer who has been actively engaged in an engineering or technology profession and has demonstrated outstanding technical excellence as an individual resulting in significant accomplishments.

- URL: <http://societyofwomenengineers.swe.org/index.php/awards/individual-awards#activePanels>

### **Professional Formation of Engineers (PFE: RIEF) - Research Initiation in Engineering Formation**

*National Science Foundation (NSF)*

**Due Date: 3/31/2016**

The NSF Engineering (ENG) Directorate has launched a multi-year initiative, the Professional Formation of Engineers, to create and support an innovative and inclusive engineering profession for the 21st Century. Professional Formation of Engineers (PFE) refers to the formal and informal processes and value systems by which people become engineers. It also includes the ethical responsibility of practicing engineers to sustain and grow the profession. The engineering profession must be responsive to national priorities, grand challenges, and dynamic workforce needs; it must be equally open and accessible to all. Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for the process of professional formation of future engineers. As such, engineering faculty are in a unique position to help address critical challenges in engineering formation. The Professional Formation of Engineers: Research Initiation in Engineering Formation (PFE: RIEF) program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the social and/or learning sciences to address difficult, boundary-spanning problems in the professional formation of engineers. **NSF 15-539**

- URL: <http://www.nsf.gov/pubs/2015/nsf15539/nsf15539.htm>

## **Army Educational Outreach Program**

*United States Department of Defense (DOD) - Department of the Army*

**Due Date: 4/28/2016**

The purpose of the U.S. Army Educational Outreach Program (AEOP) cooperative agreement (COA) announcement is to solicit proposals for a single-award to a recipient, who will carry out the K-College STEM education and outreach programs on behalf of the U.S. Department of Defense and the U.S. Department of the Army to help address the nation's need of a diverse, agile and highly competent science, technology, engineering, and math (STEM) literate talent pool. Through the AEOP COA award, the Army envisions the government to work with a recipient with an established consortium of organizations to collaboratively advance Army-sponsored STEM education and outreach programs, conducted across the United States, Puerto Rico as well as DoD locations in Europe and the Pacific. The Recipient selected to administer programs and functions under the AEOP COA will collaboratively work as a consortium to engage students from underserved and underrepresented populations in STEM experiences during their elementary school years, encourage them to pursue STEM experiences and opportunities in their middle school years, and prepare them for college and career opportunities in their high school and undergraduate years. The AEOP COA envisions a collaborative approach in the management, planning and execution of the Army's STEM education and outreach program portfolio that will focus on the following Army STEM priorities and core objectives:

**GOAL 1: STEM Literate Citizenry Broaden, deepen, and diversify the pool of STEM talent in support of our Defense Industry Base**

**GOAL 2: STEM Savvy Educators Support and empower educators with unique Army research and technology resources**

**GOAL 3: Sustainable Infrastructure Develop and implement a cohesive, coordinated, and sustainable STEM education outreach infrastructure across the Army**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=272052>



**FY 2016 Continuation of Solicitation for the Office of Science Financial Assistance Program:  
Basic Energy Sciences (BES) - Materials Sciences and Engineering - Synthesis and Processing  
Science**

*United States Department of Energy (DOE) - Office of Science (OS)*

**Due Date: Open until 9/30/2016 (NOTE: Applications for conference or workshop support  
must be submitted at least six months before the meeting date and no later than April 1,  
2016, to be considered for FY 2016 funding.)**

The mission of the Basic Energy Sciences (BES) program is to support fundamental research to understand, predict, and ultimately control matter and energy at the electronic, atomic, and molecular levels in order to provide the foundations for new energy technologies and to support DOE missions in energy, environment, and national security. The portfolio supports work in the natural sciences by emphasizing fundamental research in materials sciences, chemistry, geosciences, and biosciences. BES-supported scientific facilities provide specialized instrumentation and expertise that enable scientists to carry out experiments not possible at individual laboratories. The Materials Sciences and Engineering (MSE) Division supports fundamental experimental and theoretical research to provide the knowledge base for the discovery and design of new materials with novel structures, functions, and properties. This knowledge serves as a basis for the development of new materials for the generation, storage, and use of energy and for mitigation of the environmental impacts of energy use. This program supports research to understand the physical phenomena and unifying principles in different classes of materials that underpin their synthesis including diffusion, nucleation, and phase transitions, often using in situ diagnostics, and developing new techniques to synthesize materials with tailored structure and desired properties. An important element of this activity is the development of real-time monitoring tools, diagnostic techniques, and instrumentation that can provide information on the progression of structure and properties as a material is formed in order to understand the underlying physical dynamic mechanisms and to gain atomic and molecular level control of material synthesis and processing. The emphasis is on fundamental research to enable discovery of new functional materials and the development of new crystal growth methods and thin film deposition techniques to create complex materials with targeted structure and properties. The Synthesis and Processing Science activity continues to focus on the area of predictive design and synthesis of materials across multiple length scales, with a particular emphasis on the mesoscale where functionalities begin to emerge. Proposals to accelerate progress in understanding synthesis pathways and the discovery of new materials through coupling creative physical experimental synthesis and processing techniques, computational approaches, and/or in situ diagnostic tools and characterization techniques developed in the laboratory or at DOE-BES user facilities are encouraged. The program has an increasing focus on understanding of kinetics and mechanisms of materials growth including: bulk material processes, organic and inorganic film deposition, plasma synthesis and the organization of mesoscopic assemblies across a range of length scales, especially underpinning many energy related technological areas.

- URL: <http://science.energy.gov/grants/foas/open/>



## **Full Spectrum Signals Intelligence (SIGINT) and Cyber Operations Technology**

*U.S. Department of Defense (DoD) - Air Force*

**Due Date: White papers accepted on a rolling basis until 9/30/2020**

Notice seeking white papers for various scientific studies, investigations, and experiments to increase our knowledge, understanding and capability in order to expand cyber operations technologies involving full spectrum signals intelligence and Electronic Warfare within DOD. Areas of interest include the integration, better coordination of, and capability to conduct cyberspace operations. **BAA-AFRL-RIK-2015-0023**

- **URL:**<https://www.fbo.gov/?s=opportunity&mode=form&tab=core&id=3ad47dcb63ada67ae502e8b1535f512f&cvview=0>

## **HEALTH, LIFE & EARTH SCIENCES**

### **Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)**

*National Science Foundation (NSF)*

**Due Date: 1/11/2016, 12/9/2016**

Biological Field Stations and Marine Laboratories (FSMLs) are off-campus facilities for research and education pertaining to physical and biological phenomena and organisms in the natural habitats of terrestrial, freshwater, and marine ecosystems. FSMLs support environmental and biological research and education by preserving access to study areas and organisms, by providing facilities and equipment in close proximity to those study areas, and by fostering an atmosphere of mutual scientific interest and collaboration in research and education. For FSMLs to fulfill their role in biological research and education, they must offer modern research and educational facilities, equipment, and communications and data management systems for a broad array of users. A significant fraction of the research and education projects that use the proposing facility as a platform for their execution should be in science and engineering fields eligible for support by the National Science Foundation. In recognition of the continuing need for modern facilities and equipment at FSMLs, the NSF invites proposals that address the general goal of FSML improvement. Requests must fall exclusively into one of two classes: Improvement or Planning. Improvement proposals should focus on well-defined projects of major equipment acquisition, data management and communication systems modernization, or physical plant improvement. Planning proposals are for strategic institutional

planning for the long term research and education goals of the station. In addition to a clear description of the proposed improvement or planning project, proposals are expected to present a compelling justification based on demonstrated need for the project, and a realistic appraisal of its potential impact on biological and environmental research and education activities at the proposing facility. **NSF 16-506**

- URL: <http://www.nsf.gov/pubs/2016/nsf16506/nsf16506.htm>

### **GEO Opportunities for Leadership in Diversity (GOLD): An Ideas Lab Activity**

*National Science Foundation (NSF)*

**Due Date: Preliminary Proposals 2/1/2016; Full Proposals 6/2/2016**

The geosciences continue to lag other science, technology, engineering, and mathematics (STEM) disciplines in the engagement, recruitment and retention of traditionally underrepresented and underserved minorities, requiring more focused and strategic efforts to address this problem. Diversity is a vital priority for the geosciences community because it promotes innovation, strengthens the community's ability to tackle complex geoscience research problems, and engenders widespread public Earth and environmental science literacy. Prior investments made by the National Science Foundation (NSF) related to broadening participation in STEM have identified many effective strategies and model programs for engaging, recruiting, and retaining underrepresented students in the geosciences. These investments also have documented clearly the importance of committed, knowledgeable, and persistent leadership for making local progress in broadening participation in STEM and the geosciences. Achieving diversity at larger and systemic scales requires a network of diversity "champions" who can catalyze widespread adoption of these evidence-based best practices and resources. Although many members of the geoscience community are committed to the ideals of broadening participation, the skills and competencies that empower people who wish to have an impact, and make them effective as leaders in that capacity for sustained periods of time, must be cultivated through professional development. But, it is not sufficient to educate prospective leaders on the issues and resources related to broadening participation in STEM. Research on leadership development has documented the complex interplay of personal traits, motivating factors, and environmental contexts that must also be considered in making such professional development efforts successful. This solicitation describes an Ideas Lab on "GEO Opportunities for Leadership in Diversity." Ideas Labs are intensive workshops focused on finding innovative solutions to grand challenge problems. The ultimate aim of this Ideas Lab, organized by the NSF Directorate for Geosciences (GEO), is to facilitate the design, pilot implementation, and evaluation of innovative professional development curricula that can unleash the potential of geoscientists with interests in broadening participation to become impactful leaders within the community. The expectation is that mixing geoscientists with experts in broadening participation research, behavioral change, social psychology, institutional change management, leadership development research, and pedagogies for professional development will not

only engender fresh thinking and innovative approaches for preparing and empowering geoscientists as change agents for increasing diversity, but will also produce experiments that contribute to the research base regarding leader and leadership development. U.S. scientists and educators may submit preliminary proposals only via FastLane as an application to participate in the Ideas Lab, through which a set of multidisciplinary ideas will be developed. The Ideas Lab will be held March 20-24, 2016 in the Washington, DC metro region. Promising approaches developed through the Ideas Lab process will be submitted as full proposals from invited participants. **NSF 16-516**

- URL: [http://www.nsf.gov/pubs/2016/nsf16516/nsf16516.htm?WT.mc\\_id=USNSF\\_179](http://www.nsf.gov/pubs/2016/nsf16516/nsf16516.htm?WT.mc_id=USNSF_179)

### **Advanced Education Nursing Traineeship (AENT)**

*U.S. Department of Health and Human Services (HHS) - Health Resources and Services Administration (HRSA)*

**Due Date: 2/15/2016**

The purpose of the AENT program is to increase the number of primary care Advanced Practice Registered Nurses (APRN) trained in rural and/or underserved communities to better prepare graduates to practice in these communities. The AENT grant provides traineeships to nurses who are pursuing advanced degrees as primary care nurse practitioners (NP) or nurse-midwives. **HRSA-16-071**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280438>

### **Pediatric Research Grants**

*Gerber Foundation*

**Due Date: 2/15/2016**

The Foundation's mission focuses on the nutrition, care and development of infants and young children. Therefore, grant-making interests are focused on health and/or nutrition-related research having a significant impact on issues facing infants and young children from the first year before birth to age 3. The Foundation is particularly interested in fresh approaches to solving newborn or pediatric problems or emerging issues with a predictable time frame to clinical application. Projects should be focused on issues faced by care providers that, when implemented, will improve the health, nutrition and/or developmental outcomes for infants and young children.

#### **Projects may include:**

- Etiologic mechanisms of disease
- New, improved or less invasive diagnostic procedures
- Reduction or elimination of side effects
- Alleviation of symptoms

- New, improved or less invasive therapies, care, or treatments
- Dosage or dosing requirements or mechanisms for drugs, nutrient supplementation or other therapeutic measures (under or overdosing)
- Preventative measures

The Foundation gives priority to projects of national or regional impact.

- URL: <http://www.qerberfoundation.org/pd-research/research-awards/application-process>

### **AHRQ Small Research Grant Program (R03)**

*Agency for Healthcare Research and Quality (AHRQ)*

**Due Date: 2/16/2016, 6/16/2016, 10/16/2016**

This FOA encourages Small Research Grant (R03) applications, and expresses AHRQ priority areas of interest for ongoing small research projects. The R03 grant mechanism supports different types of health services research 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. **PA-15-147**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-15-147.html>

### **T2 Translational Research: Research Leading to New Health Care practices, Community Programs and Policies Affecting Older Persons (R21)**

*National Institutes of Health (NIH) – National Institute on Aging (NIA)*

**Due Dates: 2/16/2016, 6/16/2016, 10/16/2016 (standard due dates apply)**

This funding opportunity announcement (FOA) encourages exploratory/developmental research projects on translational research (T2) directed towards development of health care practices, community programs and policies, including monitoring and quality improvement for pharmacological and non-pharmacological approaches for preventing and treating key health issues affecting the elderly. For the purposes of this FOA, T2 translational research on aging is defined as research to gather information needed to develop or evaluate methods of translating results from clinical studies into everyday clinical practice and health decision making (e.g., adapting an efficacious intervention for application in clinical practice and evaluating its effectiveness in different clinical settings). Methods for T2 translational research include but are not limited to intervention studies, systematic reviews, meta-analysis, outcomes research and implementation research. **PAR-15-191**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-15-191.html>

A bi-weekly publication of the Office of Research and Technology Transfer. For additional information or to request a customized funding opportunity search, please contact [funding@wichita.edu](mailto:funding@wichita.edu).

### **Examination of Survivorship Care Planning Efficacy and Impact**

*National Institutes of Health (NIH) - National Cancer Institute (NCI)*

**Due Date: Varies by mechanism (see below) (standard due dates apply)**

The purpose of this Funding Opportunity Announcement (FOA) is to stimulate developmental research evaluating the effect of care planning on self-management of late effects of cancer therapy; adherence to medications, cancer screening, and health behavior guidelines; utilization of follow-up care; survivors' health and psychosocial outcomes. How organizational-level factors influence the implementation of care planning and its associated costs is also of interest. Specifically, the FOA aims to stimulate research that will: 1) develop and test metrics for evaluating the impact of survivorship care planning; 2) evaluate the impact of survivorship care planning on cancer survivors' morbidity, self-management and adherence to care recommendations, utilization of follow-up care; 3) evaluate effects of planning on systems outcomes, such as associated costs and impact on providers and organizations implementing the care planning; and 4) identify models and processes of care that promote effective survivorship care planning. The ultimate goal of this FOA is to generate a body of science that will inform the development and delivery of interventions that improve follow-up care for cancer survivors.

**R01 (PA-16-012): 2/5/2016, 6/5/2016, 10/5/2016**

- URL: <https://grants.nih.gov/grants/quide/pa-files/PA-16-012.html>

**R21 (PA-16-011): 2/16/2016, 6/16/2016, 10/16/2016**

- URL: <https://grants.nih.gov/grants/quide/pa-files/PA-16-011.html>

### **Advanced Development and Validation of Emerging Molecular and Cellular Analysis Technologies for Basic and Clinical Cancer Research (R33)**

*National Institutes of Health (NIH) - National Cancer Institute (NCI)*

**Due Date: (Letters of intent due 30 days prior to application due date) 2/26/2016, 9/26/2016**

This Funding Opportunity Announcement (FOA) solicits grant applications proposing exploratory research projects focused on the advanced development of emerging molecular or cellular analysis technologies for basic or clinical cancer research. This FOA solicits R33 applications where proof-of-principle for the emerging technology or methodology has been provided with supportive preliminary data demonstrating a novel capability for targeting, probing, or assessing molecular and cellular features of cancer biology. Well-suited applications must offer the potential to accelerate and/or enhance research in the areas of cancer biology, early detection and screening, clinical diagnosis, treatment, control, epidemiology, and/or cancer health disparities. Technologies proposed for development may be intended to have widespread applicability but must be focused on improving molecular and/or cellular characterizations of cancer. Projects proposing to use established technologies where the novelty resides in the biological or clinical question being pursued are not

appropriate for this solicitation and will not be reviewed. This funding opportunity is part of a broader NCI-sponsored Innovative Molecular Analysis Technologies (IMAT) Program. This funding opportunity is part of a broader NCI-sponsored Innovative Molecular Analysis Technologies (IMAT) Program. **RFA-CA-16-002**

- URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-16-002.html>

### **Advanced Development and Validation of Emerging Technologies for Cancer-Relevant Biospecimen Science (R33)**

*National Institutes of Health (NIH) - National Cancer Institute (NCI)*

**Due Date: (Letters of Intent due 30 days prior to application due date) 2/26/2016, 9/26/2016**

This Funding Opportunity Announcement (FOA) solicits grant applications proposing exploratory research projects focused on the advanced development and validation of emerging technologies that improve the quality of the samples used for cancer research or clinical care. This includes technologies that address issues related to pre-analytical degradation of targeted analytes during the collection, processing, handling, and storage of cancer-relevant biospecimens. This FOA solicits R33 applications where proof-of-principle for the emerging technology or methodology has been provided with supportive preliminary data demonstrating a novel capability for maximizing or otherwise interrogating the quality and utility of biological samples used for downstream analyses. Well-suited applications must offer the potential to accelerate and/or enhance research in the areas of cancer biology, early detection and screening, clinical diagnosis, treatment, control, epidemiology, and/or cancer health disparities. Projects proposing to use established technologies where the novelty resides in the biological or clinical question being pursued are not appropriate for this FOA and will not be reviewed. This funding opportunity is part of a broader NCI-sponsored Innovative Molecular Analysis Technologies (IMAT) Program. **RFA-CA-16-004**

- URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-16-004.html>

### **Development and Translation of Medical Technologies to Reduce Health Disparities (SBIR) (R43/R44)**

*National Institutes of Health (NIH)*

**Due Date: (Letters of Intent due 30 days prior to application due date) 3/4/2016, 7/6/2016**

This Funding Opportunity Announcement (FOA) encourages Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) that propose to develop and translate medical

technologies aimed at reducing disparities in healthcare access and health outcomes. Appropriate medical technologies should be effective, affordable, culturally acceptable, and deliverable to those who need them. Responsive grant applications must involve a formal collaboration with a healthcare provider or other healthcare organization serving one or more health disparity populations during Phase I and Phase II. **RFA-EB-16-001**

- URL: <https://grants.nih.gov/grants/guide/rfa-files/RFA-EB-16-001.html>

### **Bayada Technological Innovation in Nursing Award**

*Drexel University*

**Due Date: 3/1/2016**

[Drexel University](#) is accepting applications for the annual Bayada Awards for Technological Innovation in Nursing Education and Practice. The award program, which was created in 2004 to acknowledge nurses who have made a significant contribution to nursing education or practice through the development and/or adoption of a new technology, offers two prizes of \$10,000 each, one to a nursing educator or a practicing nurse whose innovation leads to improved nursing education and student outcomes, and the other to a nurse educator or practicing nurse whose innovation leads to improved patient care and patient-care outcomes. Entries will be judged on the technology's innovativeness and its impact on nursing education or direct patient care. The innovation must be new and have been in use for six months or longer prior to submission of application. Applications must be submitted under one of the following categories:

- 1) Nursing education (both didactic and clinical): The innovation may be related to curriculum delivery methods, improving student clinical competency, and efficiency – e.g., a software program that assists nursing students with collection of patient data and the creation of an electronic nursing care plan.
- 2) Patient care: The innovation may be related to improving efficiency of patient care delivery, preventing errors in patient care, or improving outcomes. Examples include using current technology/equipment to develop a new way to monitor patient assessment data; alerting staff of status change; developing new technological tools to assess patients; and decision support tools.

See the Drexel University website for complete program guidelines, application instructions, and profiles of past winners.

- URL: <http://drexel.edu/cnhp/about/BAYADA/>



## Recognition Grants

*Kansas Health Foundation*

**Due Date: 3/15/2016, 9/15/2016**

Recognition Grants expand the Kansas Health Foundation's support to a broad range of organizations throughout the state. While the majority of the Foundation's funding is through invited proposals, the Recognition Grants program is designed to fund unsolicited requests. It is targeted for organizations and agencies proposing meaningful and charitable projects that fit within the Foundation's mission of improving the health of all Kansans. In addition to supporting projects, the Foundation also seeks to support initiatives that focus on promoting policy, systems and environmental (PSE) transformations that support health. PSE initiatives that affect all aspects of health, including social factors that contribute to a healthy population may be considered. Funding may be used to support the following activities of the proposed initiative: strategic communication, coalition building, data collection to inform or support an initiative, or non-lobbying advocacy actions.

- URL: <http://kansashealth.org/recognitiongrants>

## Dimensions of Biodiversity

*National Science Foundation (NSF)*

**Due Date: 3/17/2016**

Despite centuries of discovery, most of our planet's biodiversity remains unknown. The scale of the unknown diversity on Earth is especially troubling given the rapid and permanent loss of biodiversity across the globe. The goal of the Dimensions of Biodiversity campaign is to transform, by 2020, how we describe and understand the scope and role of life on Earth. This campaign promotes novel integrative approaches to fill the most substantial gaps in our understanding of the diversity of life on Earth. It takes a broad view of biodiversity, and focuses on the intersection of genetic, phylogenetic, and functional dimensions of biodiversity. Successful proposals must integrate these three dimensions to understand interactions and feedbacks among them. While this focus complements several core programs in BIO and GEO, it differs by requiring that multiple dimensions of biodiversity be addressed simultaneously, in novel ways, to understand their synergistic roles in critical ecological and evolutionary processes. The Dimensions of Biodiversity program again includes partnerships with the National Natural Science Foundation of China (NSFC) and SÃ£o Paulo Research Foundation (FAPESP) of Brazil in fiscal year 2016. **NSF 15-611**

- URL: <http://www.nsf.gov/pubs/2015/nsf15611/nsf15611.htm>



### **Summer Research Education Experience Programs (R25)**

*National Institutes of Health (NIH)*

**Due Date: 3/23/2016 (Letters of Intent due 30 days before due date)**

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this R25 program is to support educational activities that foster a better understanding of biomedical, behavioral and clinical research and its implications. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Research Experiences for high school, undergraduate and science teachers during the summer academic break. **PAR-15-184**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-15-184.html>

### **Center for Regulatory Excellence (CRE)**

*National Council of State Boards of Nursing (NCSBN)*

**Due Date: 4/8/2016, 10/7/2016**

The CRE grant program provides funding for scientific research projects that advance the science of nursing policy and regulation and build regulatory expertise worldwide.

#### **Research Priorities:**

- National and International Regulatory Issues
- Patient Safety
- Practice (LPN/VN, RN and APRN)
- Nursing Education
- Continued Competence
- Nurse Mobility
- Substance Use

- URL: <https://www.ncsbn.org/center-for-regulatory-excellence.htm>

### **Geomorphology and Land Use Dynamics**

*National Science Foundation (NSF)*

**Due Date: Proposals accepted anytime**

The Geomorphology and Land-use Dynamics Program supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages

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research that quantitatively investigates the coupling and feedback among such processes, their rates, and their relative roles, especially in the contexts of variation in climatic, biologic, and tectonic influences and in light of changes due to human impacts. Such research may involve fieldwork, modeling, experimentation, theoretical development, or combinations thereof. **NSF 15-560**

- URL: [http://www.nsf.gov/pubs/2015/nsf15560/nsf15560.htm?WT.mc\\_id=USNSF\\_179](http://www.nsf.gov/pubs/2015/nsf15560/nsf15560.htm?WT.mc_id=USNSF_179)

## MULTIPLE DISCIPLINES

### **Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP)**

*National Science Foundation (NSF)*

**Due Date: 3/9/2016**

Critical infrastructures are the mainstay of our nation's economy, security and health. These infrastructures are interdependent. For example, the electrical power system depends on the delivery of fuels to power generating stations through transportation services, the production of those fuels depends in turn on the use of electrical power, and those fuels are needed by the transportation services. The goals of the Critical Resilient Interdependent Infrastructure Processes and Systems (CRISP) solicitation are to: (1) foster an interdisciplinary research community of engineers, computer and computational scientists and social and behavioral scientists, that creates new approaches and engineering solutions for the design and operation of infrastructures as processes and services; (2) enhance the understanding and design of interdependent critical infrastructure systems (ICIs) and processes that provide essential goods and services despite disruptions and failures from any cause, natural, technological, or malicious; (3) create the knowledge for innovation in ICIs so that they safely, securely, and effectively expand the range of goods and services they enable; and (4) improve the effectiveness and efficiency with which they deliver existing goods and services. **These goals lead to the following specific objectives for this solicitation:**

- To create new knowledge, approaches, and engineering solutions to increase resilience, performance, and readiness in ICIs.
- To create theoretical frameworks and multidisciplinary models of ICIs, processes and services, capable of analytical prediction of complex behaviors, in response to system and policy changes.
- To develop frameworks to understand interdependencies created by the interactions between the physical, the cyber (computing, information, computational, sensing and communication), and social, behavioral and economic (SBE) elements of ICIs. These could include, but are not limited to, approaches for: better physical design of ICIs and their placement; the use of new materials; software frameworks for better integration of the software and computing systems embedded in ICIs; software frameworks

for modeling and simulation, management, monitoring and control of interdependent ICIs; and novel software engineering methodologies.

- To understand organizational, social, psychological, legal, and economic obstacles to improving ICIs, and identifying strategies for overcoming those obstacles.

The CRISP solicitation seeks proposals with transformative ideas that will ensure ICI services are effective, efficient, dependable, adaptable, resilient, safe, and secure. Successful proposals are expected to study multiple infrastructures focusing on them as interdependent systems that deliver services, enabling a new interdisciplinary paradigm in infrastructure research. To meet the interdisciplinary criterion, proposals must broadly integrate across engineering, computer, information and computational science, and the social, behavioral and economic (SBE) sciences. Proposals that do not meet this criterion may be returned without review. Projects supported under this solicitation may undertake the collection of new data or use existing curated data depending on the category of award, and must recognize that a primary objective is integrative, predictive modeling that can use the data to validate the models and that can be integrated into decision making.

**Type 1 Awards:** Theory, modeling, data collection and metrics projects that will create the knowledge, representations, methodologies, case studies and approaches to conceptualize and study interdependent infrastructures as processes, services and systems. These awards can also have the objective of team building that will help clarify the basic terminology, assumptions and premises that enable theories, model and metric formalizations for interdependent infrastructures as processes and services. These awards are not intended for empirical testing of models or theories.

**Type 2 Awards:** These proposals support interdisciplinary research to conduct major new interdependent infrastructure research using empirical data. They are expected to include the creation of knowledge, representations, methodologies and approaches to conceptualize and study interdependent infrastructures as processes, services and systems. **NSF 16-519**

- URL: <http://www.nsf.gov/pubs/2016/nsf16519/nsf16519.htm>

## Research in Bio-molecular Science and Engineering

*Naval Research Laboratory (NRL)*

**Due Date: White Papers continually accepted**

The Center for Bio-Molecular Science and Engineering of the Naval Research Laboratory (NRL) conducts multidisciplinary research in biotechnology using the techniques of modern molecular biology, biophysics, chemistry, microelectronics, and engineering to fabricate biosensors, biomaterials, and advanced systems. See link for current research areas. **BAA 69-13-01**

- URL: [http://heron.nrl.navy.mil/contracts/baa/baa\\_2013/FY13%20TOPICS/691301\\_Research%20in%20Bio-Molecular%20Science%20and%20Engineering.pdf](http://heron.nrl.navy.mil/contracts/baa/baa_2013/FY13%20TOPICS/691301_Research%20in%20Bio-Molecular%20Science%20and%20Engineering.pdf)

## NEW FACULTY/INVESTIGATOR

### **Mellon Postdoctoral Fellowship in the Humanities**

*Massachusetts Institute of Technology (MIT) - School of Humanities, Arts, and Social Sciences (SHASS)*

**Due Date: 1/15/2016**

The Mellon Fellowship is for scholarship across boundaries. Thanks to the generous support of the Mellon Foundation, MIT's School of Humanities, Arts, and Social Sciences awards these fellowships each year to promising young scholars working at the intersection of humanities disciplines, or between the humanities and other disciplines. This Fellowship is especially intended for scholars who work in more than one specialty within the humanities, or bridging from the humanities with other disciplines.

The School of Humanities, Arts, and Social Sciences has four departments participating in this search: Comparative Media Studies/Writing, Literature, Global Studies and Languages, Music and Theater Arts. Applicants must designate one of the four academic units in which they would like to be located. Fellows will teach one course in Spring 2017 and one per semester the following academic year, and will be in residence at MIT during this time.

- URL: [http://shass.mit.edu/graduate/mellon\\_postdoctoral\\_fellowship](http://shass.mit.edu/graduate/mellon_postdoctoral_fellowship)

### **NIDCD Early Career Research (ECR) Award (R21)**

*National Institutes of Health (NIH) – National Institute on Deafness and Other Communication Disorders (NIDCD)*

**Due Dates: 2/26/2016, 6/28/2016, 10/26/2016**

The NIDCD Early Career Research (ECR) Award (R21) is intended to support both basic and clinical research from scientists who are beginning to establish an independent research career. It cannot be used for thesis or dissertation research. The research must be focused on one or more of the areas within the biomedical and behavioral scientific mission of the NIDCD: hearing, balance, smell, taste, voice, speech, or language. The NIDCD ECR Award R21 grant mechanism supports different types of projects including secondary analysis of existing data; small, self-contained research projects; development of research methodology; translational research; outcomes research; and development of new research technology. Irrespective of the type of project, the intent of the NIDCD ECR Award R21 is for the Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) to obtain sufficient preliminary data for a subsequent R01 application. **PAR-16-057**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-16-057.html>

### **Gerald Westheimer Career Development Fellowship**

*Leo Baeck Institute (LBI)*

**Due Date: 3/1/2016**

The Leo Baeck Institute is offering a Career Development Award as a personal grant to a scholar or professional in an early career stage whose proposed work would deal with topics within the Leo Baeck Institute's mission, namely historical or cultural issues of the Jewish experience in German-speaking lands. The grant is intended to provide for the cost of obtaining scholarly material (e.g. publications), temporary help in research and production needs, membership in scholarly organizations, travel, computer, copying and communication charges and summer stipend for non-tenured academics.

- URL: <http://www.lbi.org/about/fellowships/career-development-fellowship/>

### **Marion Milligan Mason Award: Women in the Chemical Sciences**

*American Association for the Advancement of Science (AAAS) - Marion Milligan Mason Fund*

**Due Date: 3/1/2016**

The **Marion Milligan Mason Awards**, funded by the Marion Miligan Mason fund, are designed to support Women in the Chemical Sciences to kickstart the research career of promising future senior investigators in the chemical sciences. The Marion Milligan Mason Fund provides four grants of \$50,000 every other year to women researchers engaged in basic research in the chemical sciences. Awards are for women who are starting their academic research careers. In addition to research funding, the program provides leadership development and mentoring opportunities.

- URL: <http://www.aaas.org/masonaward>

### **Research Opportunities in Space and Earth Sciences (ROSES) - Early Career Fellowship Program**

*National Aeronautics and Space Administration (NASA)*

**Due Date: 3/31/2016**

The Early Career Fellowship (ECF) program supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the areas supported by the Planetary Sciences Division. This Program is based on the idea that supporting key individuals is a critical mechanism for achieving high impact science that will lead the field forward with new concepts, technologies, and methods. 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.

- **URL:**<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={2D9D402B-F2AE-B613-5734-FBCA7E3DAE3C}&path=open>

## SOCIAL & BEHAVIORAL SCIENCES

### **International Security Fellowships (formerly Predoctoral and Postdoctoral Fellowships in International Security)**

*Stanford University - Freeman Spogli Institute for International Studies, Center for International Security and Cooperation (CISAC)*

**Due Date: 1/15/2016**

CISAC's Program offers pre and postdoctoral students and professionals in the social sciences opportunities for concentrated study in a multidisciplinary environment. Fellows are expected to produce a research product (e.g., dissertation chapters, draft articles, a book manuscript) by the end of their fellowship year. The center considers applicants working within a broad range of topics related to peace and international security. Suitable topics may include, but are not limited to:

- transnational processes, including illicit flows of people, money, and arms;
- rising powers and global governance;
- causes, prevention and settlement of conflicts;
- determinants of post-war settlements;
- the interaction of science, politics and policy;
- nuclear energy and nuclear nonproliferation; and

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- climate change and human security.

The center invites applications from a variety of areas of expertise, including anthropology, economics, history, law, political science, sociology, medicine, and the natural and physical sciences.

- URL: [http://cisac.fsi.stanford.edu/fellowships/international\\_security\\_fellowships/](http://cisac.fsi.stanford.edu/fellowships/international_security_fellowships/)

### **Research Grants for Preventing Violence and Violence Related Injury (R01)**

*U.S. Department of Health and Human Services (HHS) - Centers for Disease Control and Prevention (CDC), National Center for Injury Prevention and Control (NCIPC)*

**Due Date: Letter of Intent 1/15/2016; Application 3/1/2016**

The Centers for Disease Control and Prevention's National Center for Injury Prevention and Control (NCIPC) is soliciting investigator-initiated research that will help expand and advance the understanding of how best to disseminate, implement, and translate evidence-based primary prevention strategies, programs, and policies designed to reduce child abuse and neglect. NCIPC is also soliciting investigator-initiated research to expand our knowledge about what works to prevent violence by rigorously evaluating primary prevention strategies, programs, and policies, to address specific gaps in the prevention of injury caused by child abuse and neglect, teen dating violence, intimate partner violence, and sexual violence. This initiative is intended to support primary prevention strategies, programs or policies that target universal or selected high-risk populations (i.e., populations that have one or more risk factors that place them at heightened risk for initial perpetration of violence). Funds are available for research in the areas of child abuse and neglect, teen dating violence, intimate partner violence, and sexual violence as detailed in the solicitation. **RFA-CE-16-001**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280263>

### **Research and Development in Forensic Science for Criminal Justice Purposes**

*United States Department of Justice (DOJ) - National Institute of Justice (NIJ)*

**Due Date: 2/1/2016**

NIJ is seeking proposals for basic or applied research and development projects that will:

- (1) increase the body of knowledge to guide and inform forensic science policy and practice, or
- (2) result in the production of useful materials, devices, systems, or methods that have the potential for forensic application.

The intent of this program is to direct the findings of basic scientific research, research and development in broader scientific fields applicable to forensic science, and ongoing forensic science

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research toward the development of highly discriminating, accurate, reliable, cost-effective, and rapid methods for the identification, analysis, and interpretation of physical evidence for criminal justice purposes. **NIJ-2016-4305**

- URL: <http://nij.gov/funding/Documents/solicitations/nij-2016-4305.pdf>

**Rural Sexual Assault, Domestic Violence, Dating Violence and Stalking Program**  
*United States Department of Justice (DOJ) - Office of Violence Against Women (OVW)*  
**Due Date: 2/1/2016**

Activities supported by the Rural Program are determined by statute, federal regulations, and OVW policies. If an applicant receives an award, the funded project is bound by the provisions of this solicitation, the DOJ Financial Guide, any updates to the DOJ Financial Guide, and the conditions of the recipient's award.

**In FY 2016, funds under the Rural Program may be used for the following purposes:**

1. To identify, assess and appropriately respond to child, youth, and adult victims of sexual assault, domestic violence, dating violence, and stalking in rural communities, by encouraging collaboration among sexual assault, domestic violence, dating violence and stalking victim service providers; law enforcement agencies; prosecutors; courts; other criminal justice service providers; human and community service providers; educational institutions; and health care providers, including sexual assault forensic examiners;
2. To establish and expand nonprofit, nongovernmental, state, tribal, territorial, and local government victim services in rural communities to child, youth, and adult victims; and/or
3. To increase the safety and well-being of women and children in rural communities by:
  - A. dealing directly and immediately with sexual assault, domestic violence, dating violence and stalking occurring in rural communities; and
  - B. creating and implementing strategies to increase awareness and prevent sexual assault, domestic violence, dating violence and/or stalking.

**OVW-2016-9104**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=280426>



### **Esther Katz Rosen Fund Grants**

*American Psychological Association (APA) - American Psychological Foundation (APF)*

**Due Date: 3/1/2016**

The Ester Katz Rosen Fund\* was established in 1974 by a generous bequest intended to support "...activities related to the advancement and application of knowledge about gifted children."

Program goals of this fund are:

- Enables and enhances development of identified gifted and talented children and adolescents
- Encourages promising psychologists to continue innovative research and programs in this area.

Support will be provided for activities on the advancement and application of knowledge related to identified gifted and talented children and adolescents, such as:

- Research
- Pilot projects
- Research-based programs.

- URL: <http://www.apa.org/apf/funding/rosen.aspx>

### **Research on Measurement of Teen Dating Violence**

*U.S. Department of Justice (DoJ) – National Institute of Justice (NIJ)*

**Due Date: 3/9/2016**

NIJ is seeking proposals for measurement research related to teen dating violence (a.k.a. adolescent relationship abuse). In particular, NIJ is seeking proposals that advance the accurate and developmentally appropriate measurement of dating violence perpetration and victimization among adolescents and young adults. **NIJ-2016-9001 Specific topics of interest include, but are not limited to:**

- Experimental studies that compare different measurement approaches such as wording and ordering.
- Studies that use qualitative or cognitive interviewing techniques in attempts to place youth responses to standard behavioral measures in context.
- Studies combining existing data sets that use similar behavioral measures to examine potential methodological questions such as:
  - o Item-level analyses, such as the use of item response theory (IRT), to examine differential validity, sensitivity, and specificity.
  - o Investigate the measurement invariance of specific acts as they relate to a stable construct over the lifespan.
- Studies that explore the use of innovative techniques for survey and data collection.
- Studies that explore the appropriateness of existing behavioral measures for use with cultural subgroups.

- Studies that seek to develop and pilot test new, nonbehavioral measures such as episode based information.
- **URL:**[http://nij.gov/funding/Documents/solicitations/NIJ-2016-9001.pdf?utm\\_source=twitter&utm\\_medium=social-media&utm\\_content=solicitation&utm\\_campaign=TDVsolic-122015](http://nij.gov/funding/Documents/solicitations/NIJ-2016-9001.pdf?utm_source=twitter&utm_medium=social-media&utm_content=solicitation&utm_campaign=TDVsolic-122015)

## STUDENTS

### **Marilyn Yarbrough Dissertation/Teaching Fellowship (Kenyon College Dissertation Fellowship)**

*Kenyon College*

**Due Date: 12/15/2016 (anticipated)**

The dissertation program is designed for persons who come from under-represented and disadvantaged backgrounds. The Fellow will be expected to teach one course each semester, complete the dissertation, and make a public presentation of his or her work. Generally, the program seeks fellows pursuing doctorates in one of the following fields: African Diaspora Studies, American Studies, Anthropology, Art, Art History, Asian Studies, Biology, Chemistry, Classics, Dance, Drama, Economics, Ethnic/Indigenous Studies, English, Environmental Studies, History, Humanities, International Studies, Latin Studies, Legal Studies, Mathematics, Modern Languages and Literatures, Music, Philosophy, Physics, Political Science, Public Policy, Psychology, Religious Studies, Sociology, and Women's and Gender Studies.

- **URL:** <http://www.kenyon.edu/directories/offices-services/office-of-the-provost/awards-and-recognition/marilyn-yarbrough-dissertationteaching-fellowship/>