

## Funding Bulletin

February 12<sup>th</sup>, 2016 (Vol. 3, No. 9)

### 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.

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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/>

## NOTICES

### Pivot User Satisfaction Survey

The Office of Research has created a short survey to gauge user satisfaction for Pivot, the comprehensive funding database that the university subscribes to. Participation is confidential and optional; results will be utilized to evaluate customer satisfaction with funding search support. Your feedback is appreciate! Please follow the link below to access the survey:

[https://wichitastate.co1.qualtrics.com/jfe/form/SV\\_dba6YUit2HA8c6x](https://wichitastate.co1.qualtrics.com/jfe/form/SV_dba6YUit2HA8c6x)

## OFFICE OF RESEARCH 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>Research Compliance Open Lab</b>	Feb. 17	9:00 – 11:00 a.m.	Devlin Hall Innovation Hub 215	Faculty, staff and students needing assistance in determining potential export or import controls affecting responsibilities and activities at WSU should plan to attend. <b><i>These are come-and-go labs with no registration 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>Pivot Open Lab</b>	Feb. 25	2:30 – 4:00p.m.	405 Jardine	The Office of Research will be holding Open Labs this fall for Faculty interested in using PIVOT as well as answering questions regarding their existing account. <b><i>This is a come and go lab with no registration required.</i></b>

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).



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<b>IRB Open Lab</b>	March 7	11:00 a.m. – 12:30 p.m.	405 Jardine	This lab is for faculty, staff and students who have questions about IRB forms or about their study in general. <b><i>These are come-and-go labs with no registration required.</i></b>
<b>Research Compliance Open Lab</b>	March 16	9:00 – 11:00 a.m.	Devlin Hall Innovation Hub 215	Faculty, staff and students needing assistance in determining potential export or import controls affecting responsibilities and activities at WSU should plan to attend. <b><i>These are come-and-go labs with no registration required.</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>
<b>Pivot Open Lab</b>	Mar. 24	2:30-4:00 p.m.	405 Jardine	The Office of Research will be holding Open Labs this fall for Faculty interested in using PIVOT as well as answering questions regarding their existing account. <b><i>This is a come and go lab with no registration required.</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 seven open limited submission competitions:

### (1) 2017 National Heritage Fellowships Awards Program

*National Endowment for the Arts (NEA)*

**Due Date: Internal 3/4/2016; Application 4/5/2016**

Through this Program Solicitation, the National Endowment for the Arts seeks a Cooperator to assist in the production and execution of the award program's public events including bringing the recipients to Washington, DC and coordinating the various events surrounding the official presentation of the 2017 National Heritage Fellowship awards. **An organization may submit only one proposal under this program solicitation.**

- URL: <https://www.arts.gov/program-solicitation/2017-national-heritage-fellowships>

### (2) NEA Challenge America

*National Endowment for the Arts (NEA)*

**Due Date: Internal 3/4/2016; Application Step 1: 4/14/2016; Step 2: 5/5/2016**

The Challenge America category offers support primarily to small and mid-sized organizations for projects that extend the reach of the arts to underserved populations -- those whose opportunities to experience the arts are limited by geography, ethnicity, economics, or disability. Age alone (e.g., youth, seniors) does not qualify a group as underserved; at least one of the underserved characteristics noted above also must be present. Grants are available for professional arts programming and for projects that emphasize the potential of the arts in community development. This category encourages and supports the following objective: **Engagement: Engaging the public with diverse and excellent art.**

Partnerships can be valuable to the success of these projects. While not required, applicants are encouraged to consider partnerships among organizations, both in and outside of the arts, as appropriate to their project. **An organization may submit only one application.**

- URL: <https://www.arts.gov/grants-organizations/challenge-america/grant-program-description>

### (3) Grants

*American Honda Foundation*

**Due Date: Internal 3/4/2016 (for May Deadline); Application 5/2/2016 (Additional 2016 Due Dates: 8/1/2016, 11/1/2016)**

The purpose of this program is to help meet the needs of American society in the areas of youth and scientific education by awarding grants to nonprofits, while strategically assisting communities in deriving long-term benefits. The American Honda Foundation engages in grant making that reflects the basic tenets, beliefs and philosophies of Honda companies, which are characterized by the following qualities: imaginative, creative, youthful, forward-thinking, scientific, humanistic and innovative. It supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment. **Organizations may only submit one request in a 12-month period. This includes colleges and universities with several departments/outreach programs.**

- URL: <http://corporate.honda.com/america/philanthropy.aspx?id=ahf>

### (4) Henry Dreyfus Teacher-Scholar Awards Program

*Dreyfus Foundation, Inc., Camille and Henry*

**Due Date: Internal 3/4/2016; Nomination 5/18/2016**

The program supports the teaching and research careers of talented young faculty in the chemical sciences. Based on institutional nominations, the program was designed to provide discretionary funding to faculty at early stages in their careers. The foundation seeks Henry Dreyfus Teacher-Scholars who, as independent faculty members, have demonstrated leadership in original scholarly research of outstanding quality with undergraduates and excellence and dedication in undergraduate education. Recommendations for awards are based on evidence of outstanding educational efforts and the nominee's scholarly research achievements with undergraduates as an independent faculty member, as assessed by the Foundation's reviewers and the judgment of the nominee's peers exemplified by letters of recommendation. Other considered factors are: awards and honors, publication of research achievements in leading journals, and success in attracting funding of research. **Institutions may submit only one Henry Dreyfus nomination annually.**

- URL: [http://www.dreyfus.org/awards/henry\\_dreyfus\\_teacher\\_award.shtml](http://www.dreyfus.org/awards/henry_dreyfus_teacher_award.shtml)

## **(5) NSF Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM)**

*National Science Foundation (NSF)*

**Due Date: Internal 4/1/2016; Full Proposals 5/16/2016**

The National Science Foundation (NSF) Scholarships in Science, Technology, Engineering, and Mathematics program (S-STEM) addresses the need for a high quality STEM workforce in areas of national priorities. The program seeks to increase the success of low-income academically talented students with demonstrated financial need who are pursuing associate, baccalaureate, or graduate degrees in science, technology, engineering, and mathematics (STEM). The program provides awards to Institutions of Higher Education (IHEs) to fund scholarships, and to enhance and study effective curricular and co-curricular activities that support recruitment, retention, student success, and graduation in STEM. The S-STEM program encourages collaborations among different types of partners: Partnerships among different types of institutions, collaborations of STEM faculty and educational and social science researchers, or partnerships among institutions of higher education and business and industry. The program seeks: 1) to increase the number of low-income academically talented students with demonstrated financial need obtaining degrees in STEM and entering the STEM workforce or graduate study; 2) improve the education of future scientists, engineers, and technicians, with a focus on academically talented low-income students; and 3) advance understanding of the factors or curricular and co-curricular activities affecting the success of low-income students. In this solicitation, the acronym STEM stands for science, technology, engineering, and mathematics that includes biological sciences (except medicine and other clinical fields); physical sciences (including physics, chemistry, astronomy, and materials science); mathematical sciences; computer and information sciences; geosciences; engineering; and technology areas associated with the preceding disciplines (for example, biotechnology, chemical technology, engineering technology, information technology, etc.) The S-STEM program particularly encourages proposals from 2-year institutions, Minority Serving Institutions (MSIs), and urban public and rural institutions. **An institution may submit one proposal from each constituent college or school that awards degrees in an eligible field. NSF 15-581**

- URL: <http://www.nsf.gov/pubs/2015/nsf15581/nsf15581.htm>

## **(6) Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring (PAESMEM)**

*National Science Foundation (NSF)*

**Due Date: Internal 4/15/2016; Full Proposal 6/17/2016**

The PAESMEM is a Presidential award established by the White House in 1995. The PAESMEM program is administered by the National Science Foundation (NSF) on behalf of the White House Office of Science and Technology Policy (OSTP). Nominations, including self-nominations, are invited for "Individual" and "Organizational" PAESMEM awards. Individuals and organizations in all public and

private sectors are eligible including industry, academia, K-12, military and government, non-profit organizations, and foundations. Nominations are encouraged from all geographical regions in the U.S. including its territories and particularly jurisdictions designated by Congress under NSF's Experimental Program to Stimulate Competitive Research (EPSCoR). NSF EPSCoR-designated jurisdictions are: Alabama, Alaska, Arkansas, Delaware, Guam, Hawaii, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Dakota, Oklahoma, Puerto Rico, Rhode Island, South Carolina, South Dakota, Tennessee, Utah, Vermont, Virgin Islands, West Virginia, and Wyoming. PAESMEM recognizes those who have made significant contributions to mentoring and thereby support the future and productivity of the U.S. science, technology, engineering and mathematics, (STEM) workforce. The program was created to identify and recognize individuals and organizations that have contributed outstanding efforts in mentoring and have enhanced the participation of individuals (including persons with disabilities) who might not otherwise have considered or had access to opportunities in STEM disciplines and professions. PAESMEM awardees serve as leaders in the national effort to develop fully the nation's human resources in STEM. **Multiple programs or individuals from the same institution may be nominated. However each program or individual may be nominated only once in a competition. Only one nomination per individual or program will be considered for both the Individual and Organizational categories. NSF 16-534**

- URL: <http://www.nsf.gov/pubs/2016/nsf16534/nsf16534.htm>

## (7) Research Program

*Keck Foundation, W.M.*

**Due Date: Internal 4/1/2015; Phase 1 Application 5/1/2015; Full Proposal 8/15/2016**

The Research Program seeks to benefit humanity by supporting projects in two specific areas (1) medical research and (2) science and engineering, that are distinctive and novel in their approach, question the prevailing paradigm, or have the potential to break open new territory in their field. Past grants have been awarded to major universities, independent research institutions, and medical schools to support pioneering biological and physical science research and engineering, including the development of promising new technologies, instrumentation or methodologies. The Foundation strives to fund endeavors that are distinctive and novel in their approach. It encourages projects that are high-risk with the potential for transformative impact. "High-risk" comprises a number of factors, including questions that push the edge of the field, present unconventional approaches to intractable problems, or challenge the prevailing paradigm. "Transformative" may mean creation of a new field of research, development of new instrumentation enabling observations not previously possible, or discovery of knowledge that challenges prevailing perspectives.

- URL: <http://www.wmkeck.org/grant-programs/research>

## INTERNAL OPPORTUNITIES

### Flossie E. West Foundation Award

*Wichita State University*

**Due Date: 3/4/2016**

The Flossie E. West Memorial Foundation provides support for research relating to the study and cure of cancer. Multiple grants may be awarded for up to approximately \$25,000 dependent on foundation funds. Awards are intended as seed money to develop pilot data for proposals to be submitted to governmental agencies, foundations, or industries. Funds are restricted to WSU faculty project expenses.

**For more information on the Flossie West opportunity, visit**

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

## GENERAL

### Evaluation Services

*State of Kansas – Department of Commerce*

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

The Kansas Department of Commerce requests proposals from qualified organizations to provide evaluation services in support of the recently awarded Workforce Innovation Fund (WIF) Grant. WIF grantees are required to evaluate the effectiveness of their project through an independent evaluation. The purpose of the evaluation is to ensure that state gains meaningful information about whether their approach worked well and which aspects worked best, and to inform other states' future workforce system changes. WIF projects must focus on exploring innovative service delivery or system reforms through non-experimental means. A qualified third-party evaluator must be used, and high-quality data and evaluation practices will be required. We are seeking an evaluator that is experienced in designing and completing pre-post data analysis and implementation studies. Evaluation conclusions and best practices will be disseminated to both workforce professionals and the public through all appropriate means, including webinars, conference presentations and published materials. **Event Id: 17300-EVT0004214 Round 1 Version 1**

- **URL:** <http://webs.wichita.edu/?u=wsuresearchadmin&p=/orainternalgrants/externalgrants/>



## **Complex Systems Scholar Award (Scholar Awards in Complex System Science [Scholar Awards-CS])**

*McDonnell Foundation, James S. (JSMF)*

**Due Date: 3/18/2016**

The JSMF Scholar Awards program derives from and is consistent with JSMF's commitment to supporting high quality research and scholarship leading to the generation of new knowledge and its responsible application. For Scholar Awards the program's emphasis is furthering the science of complex systems via the continued development of the theory and tools used in the study of complex research questions and not on particular fields of research per se. JSMF is particularly interested in projects attempting to apply complex systems approaches to coherently articulated questions. In general, JSMF receives many more proposals than it can fund. Research projects outside the Foundation's described area of interest will not be funded. Scholar Awards in Complex System Science (Scholar Awards-CS) provide largely unrestricted funding over a sufficient time period to allow investigators to pursue and develop new directions to their research programs. Please note: Scholar Awards-CS are intended to support a program of research NOT a particular project.

- URL: <https://www.jsmf.org/apply/scholar-cs/>

## **ARTS & HUMANITIES**

### **Princess Grace Theater Grants**

*Princess Grace Foundation*

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

Theater Grants are as follows:

**Scholarships** for tuition assistance for the last year of professional training at a non-profit school located in the United States. Please note, grants are based on tuition costs only; no other expenses (i.e. room and board, materials, books, etc.) may be included.

**Apprenticeship** applies to an individual who is "learning the trade" under the mentorship of a skilled staff person. The apprentice will work closely with the artistic director or a senior artist on the company's mainstage production(s) throughout the grant period (e.g., as an assistant director or designer or an actor in a supporting role). The apprenticeship should also include the opportunity for the nominee to do his/her own work in a workshop or second stage venue.

**Fellowship** applies to an individual artist who will have a substantial relationship with the nominating company. This artist will assume significant responsibilities on one or more production(s) in the company's mainstage season during the grant period (e.g., director, lead actor, or primary designer on a production). Significant responsibility for a second stage season will also be considered (e.g., director, lead actor, or primary designer).

- URL: <https://www.pgfsa.org/grants-program/grant-applications/guidelines/theater>

### **Conservation Grants Program**

*Kress Foundation, Samuel H.*

**Due Date: 4/1/2016, 10/1/2016**

(Note: Application deadlines are January 15, April 1, and October 1. If the application deadline falls on a weekend, applications must be received by the previous Friday.)

The Conservation program supports the professional practice of art conservation, especially as it relates to European art of the pre-modern era. Grants are awarded to projects that create and disseminate specialized knowledge, including archival projects, development and dissemination of scholarly databases, documentation projects, exhibitions and publications focusing on art conservation, scholarly publications, and technical and scientific studies. Grants are also awarded for activities that permit conservators and conservation scientists to share their expertise with both professional colleagues and a broad audience through international exchanges, professional meetings, conferences, symposia, consultations, the presentation of research, exhibitions that include a prominent focus on materials and techniques, and other professional events. Support for conservation treatments is generally limited to works from the distributed Kress Collection, and is coordinated through the Kress Program in Paintings Conservation at the Conservation Center of the New York University Institute of Fine Arts.

- URL: <http://www.kressfoundation.org/grants/conservation/>

### **Digital Resources Grants Program**

*Kress Foundation, Samuel H.*

**Due Date: 4/1/2016, 10/1/2016**

(Note: Application deadlines are April 1 and October 1. If the application deadline falls on a weekend, applications must be received by the previous Friday.)

The Digital Resources program is intended to foster new forms of research and collaboration as well as new approaches to teaching and learning. The program supports efforts to integrate new technologies into the practice of art history and the creation of important online resources in art history, including

both textual and visual resources. Support will also be offered for the digitization of important visual resources (especially art history photographic archives) in the area of pre-modern European art history; of primary textual sources (especially the literary and documentary sources of European art history); for promising initiatives in online publishing; and for innovative experiments in the field of digital art history. Please note that this grant program does not typically support the digitization of museum object collections.

- URL: [http://www.kressfoundation.org/grants/digital\\_resources/](http://www.kressfoundation.org/grants/digital_resources/)

### **Language Legacies Grant Program and the Isenberg Award - Request for Proposals 2016**

*Endangered Language Fund (ELF)*

**Due Date: 4/10/2016**

The Endangered Language Fund provides grants for language documentation and revitalization, and for linguistic fieldwork. The work most likely to be funded is that which serves both the native community and the field of linguistics, although projects which have immediate applicability to one group and more distant applicability to the other will also be considered. Support for publication is a low priority, although it will be considered. Proposals can originate in any country. The language involved must be in danger of disappearing within a generation or two. Endangerment is a continuum, and the location on the continuum is one factor in our funding decisions. Applicants may be chosen to receive special recognition through awards within the Language Legacies grant program. Currently, this is limited to the Isenberg Award, given in years when a deserving and eligible proposal is received, honors projects focused on documentation and maintenance of languages spoken in the former Soviet Union.

- URL: <http://www.endangeredlanguagefund.org/request.php>

### **Museum Assessment Program**

*American Alliance of Museums (AAM) – Institute of Museum and Library Services (IMLS)*

**Due Dates: 7/1/2016, 12/1/2016**

The Museum Assessment Program (MAP) is supported through a cooperative agreement between the Institute of Museum and Library Services and the American Alliance of Museums. It is designed to help museums assess their strengths and weaknesses, and plan for the future. A MAP assessment requires members of the museum staff and governing authority to complete a self-study. After completion of the self-study, a site visit is conducted by one or more museum professionals, who tour the museum and meet with staff, governing officials, and volunteers. The reviewers work with the museum and MAP

staff to produce a report evaluating the museum's operations, making recommendations, and suggesting resources. There are three types of MAP assessments:

- Organizational Assessment: Reviews all areas of operations.
- Collections Stewardship Assessment: Focuses on collections policies, planning access, documentation, and collections care within the context of the museum's total operations.
- Community Engagement Assessment: Assesses the museum's understanding of and relationship with its communities as well as its communities' perceptions of and experiences with the museum.
- URL: <http://aam-us.org/resources/assessment-programs/MAP>

## ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

### **Industry Partnerships for Cybersecurity of Energy Delivery Systems (CEDs) Research** *United States Department of Energy (DOE) - National Energy Technology Laboratory (NETL)* **Due Date: 3/22/2016**

The objective of this Announcement is to enhance the reliability and resilience of the nation's energy infrastructure through innovative RD&D cybersecurity solutions. This includes electricity generation, transmission and distribution as well as the production, refining, storage and distribution of oil and gas in accordance with DOE's energy infrastructure role defined in Presidential Policy Directive 21 (PPD-21). Solutions should be interoperable, scalable, cost-effective advanced technologies and techniques that do not impede critical energy delivery functions, that are innovative and that implement common methods and best practices. This Announcement includes five (5) Topic Areas. Only applications that specifically address Topic Areas described in the following section will be accepted under this Announcement. **DE-FOA-0001441**

**Topic Area 1** - Detect Adversarial Manipulation of Energy Delivery Systems Components

**Topic Area 2** - Secure Integration of Renewable Energy and Energy Efficiency Resources

**Topic Area 3** - Continual and Autonomous Reduction of Cyber Attack Surface for Energy Delivery Control Systems

**Topic Area 4** - Supply Chain Cybersecurity for Energy Delivery Systems

**Topic Area 5** - Innovative Technologies That Enhance Cybersecurity in the Energy Sector

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=281107>

### **Neural Engineering System Design (NESD)**

*United States Department of Defense (DOD) - Defense Advanced Research Projects Agency (DARPA) - Biological Technologies Office (BTO)*

**Due Date: 4/14/2016**

The Neural Engineering System Design (NESD) program seeks innovative research proposals to design, build, demonstrate, and validate in animal and human subjects a neural interface system capable of recording from more than one million neurons, stimulating more than one hundred thousand neurons, and performing continuous, simultaneous full-duplex (read and write) interaction with at least one thousand neurons in regions of the human sensory cortex. In addition to achieving substantial advances in scale of interface (independent channel count), proposed systems must also demonstrate simultaneous high-precision in neural activity detection, transduction, and encoding, with single-neuron spike-train precision for each independent channel. **DARPA-BAA-16-09**

- URL: [https://www.fbo.gov/index?s=opportunity&mode=form&id=d6357be260091fd05c950d159e3e9473&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=d6357be260091fd05c950d159e3e9473&tab=core&_cview=0)

### **Cybersecurity Innovation for Cyberinfrastructure (CICI)**

*National Science Foundation (NSF)*

**Due Date: 4/19/2016**

Advancements in data-driven scientific research depend on trustworthy and reliable cyberinfrastructure. Researchers rely on a variety of networked technologies and software tools to achieve their scientific goals. These may include local or remote instruments, wireless sensors, software programs, operating systems, database servers, high-performance computing, large-scale storage, and other critical infrastructure connected by high-speed networking. This complex, distributed, interconnected global cyberinfrastructure ecosystem presents unique cybersecurity challenges. NSF-funded scientific instruments, sensors and equipment are specialized, highly-visible assets that present attractive targets for both unintentional errors and malicious activity; untrustworthy software or a loss of integrity of the data collected by a scientific instrument may mean corrupt, skewed or incomplete results. Furthermore, often data-driven research, e.g., in the medical field or in the social sciences, requires access to private information, and exposure of such data may cause financial, reputational and/or other damage. Therefore, an increasing area of focus for NSF is the development and deployment of hardware and software technologies and techniques to protect research cyberinfrastructure across every stage of the scientific workflow. **NSF 16-533**

- URL: <http://www.nsf.gov/pubs/2016/nsf16533/nsf16533.htm>

## **Software Infrastructure for Sustained Innovation - SSE & SSI (SI2 - SSE&SSI)**

*National Science Foundation (NSF)*

**Due Date: 4/26/2016, 9/19/2016**

Software is an integral enabler of computation, experiment and theory and a primary modality for realizing the Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) vision. Scientific discovery and innovation are advancing along fundamentally new pathways opened by development of increasingly sophisticated software. Software is also directly responsible for increased scientific productivity and significant enhancement of researchers' capabilities. In order to nurture, accelerate and sustain this critical mode of scientific progress, NSF has established the *Software Infrastructure for Sustained Innovation* program, with the overarching goal of transforming innovations in research and education into sustained software resources that are an integral part of the cyberinfrastructure. SI<sup>2</sup> is a long-term investment focused on catalyzing new thinking, paradigms, and practices in developing and using software to understand natural, human, and engineered systems. SI<sup>2</sup>'s intent is to foster a pervasive cyberinfrastructure to help researchers address problems of unprecedented scale, complexity, resolution, and accuracy by integrating computation, data, networking, observations and experiments in novel ways. NSF expects that its SI<sup>2</sup> investment will result in robust, reliable, usable and sustainable software infrastructure that is critical to achieving the CIF21 vision and will transform science and engineering while contributing to the education of next generation researchers and creators of future cyberinfrastructure. Education at all levels will play an important role in integrating such a dynamic cyberinfrastructure into the fabric of how science and engineering is performed. The goal of the SI<sup>2</sup> program is to create a software ecosystem that includes all levels of the software stack and scales from individual or small groups of software innovators to large hubs of software excellence. The program addresses all aspects of cyberinfrastructure, from embedded sensor systems and instruments, to desktops and high-end data and computing systems, to major instruments and facilities. Thus, SI<sup>2</sup> will continue to nurture the interdisciplinary processes required to support the entire software lifecycle, and will successfully integrate software development and support with innovation and research. Furthermore, it will result in the development of sustainable software communities that transcend scientific and geographical boundaries. SI<sup>2</sup> envisions vibrant partnerships among academia, government laboratories and industry, including international entities, for the development and stewardship of a sustainable software infrastructure that can enhance productivity and accelerate innovation in science and engineering. Furthermore, SI<sup>2</sup> recognizes that integrated education activities will play a key role in sustaining the cyberinfrastructure over time and in developing a workforce capable of fully realizing its potential to transform science and engineering. **NSF 16-532**

### **The SI<sup>2</sup> program includes three classes of awards:**

**1. Scientific Software Elements (SSE):** SSE awards target small groups that will create and deploy robust software elements for which there is a demonstrated; these software elements will in turn advance one or more significant areas of science and engineering.

**2. Scientific Software Integration (SSI):** SSI awards target larger, interdisciplinary teams organized around the development and application of common software infrastructure aimed at solving common research problems faced by NSF researchers in one or more areas of science and engineering. SSI awards will result in a sustainable community software framework serving a diverse community or communities.

**3. Scientific Software Innovation Institutes (S<sup>2</sup>I<sup>2</sup>):** S<sup>2</sup>I<sup>2</sup> awards will focus on the establishment of long-term hubs of excellence in software infrastructure and technologies, which will serve a research community of substantial size and disciplinary breadth.

- URL: <http://www.nsf.gov/pubs/2016/nsf16532/nsf16532.htm>

### **Ideas Lab: Measuring "Big G" Challenge**

*National Science Foundation (NSF)*

**Due Date: Preliminary Proposals 5/16/2016; Full Proposals 10/26/2016**

The gravitational constant,  $G$ , describes the strength of gravitation, the weakest of the four fundamental interactions in nature. Although several hundred measurements of this constant have been performed over the last two and a quarter centuries, recent experiments differ by as much as 0.05%, about 40 times the uncertainty of the most precise experiment. Motivations to resolve the current discrepancy with better measurements are two-fold. First, the search for a theory that unifies gravitation with quantum electrodynamics is an active area of research. Such a theory may be able to predict the value of  $G$ , and an experimental result may become important to test such theories. Second, understanding the subtleties involved in precisely and absolutely measuring a small force is important for many fields of physics and metrology, including the Casimir effect, spring constants of atomic force microscopy (AFM) cantilever, intermolecular forces in DNA. This solicitation describes an Ideas Lab on "Measuring Big G" Ideas Labs are intensive meetings focused on finding innovative solutions to grand challenge problems. The ultimate aim of this Ideas Lab organized by the NSF, in collaboration with experts in the field, is to facilitate the development of new experiments designed to measure Newton's gravitational constant  $G$  with relative uncertainties approaching or surpassing one part in 100,000. The aspiration is that mixing researchers from diverse scientific backgrounds will engender fresh thinking and innovative approaches that will provide a fertile ground for new ideas on how to measure  $G$  that can be used to validate and extend current calculations. **NSF 16-520**

- URL: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505229](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505229)



## HEALTH, LIFE & EARTH SCIENCES

### **Conference Grants to Advance Collaborative Research on Aging Biology (R13)**

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

**Due Date: 4/12/2016, 8/12/2016, 12/12/2016 (standard due dates apply)**

This Funding Opportunity Announcement (FOA) encourages the submission of conference grant applications in scientific areas that will foster extramural research on the molecular, biochemical, cellular, genetic, and physiological mechanisms underlying normal aging and related pathologies. NIA is particularly interested in promoting and facilitating team science by employing the R13 activity code to allow researchers at all levels of training to come together to exchange ideas, tools and approaches in an effort to increase collaborative research. **PAR-15-265**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-15-265.html>

### **New Century Scholars Research Grant**

*American Speech-Language-Hearing Foundation (ASHFoundation)*

**Due Date: 4/24/2016**

The American Speech-Language-Hearing Foundation (ASHFoundation) invites investigators to submit proposals in competition for up to four research grants of \$25,000 each. The New Century Scholars Research Grant competition is designed to advance the knowledge base in communication sciences and disorders. Proposal type and content area are not restricted, however this funding mechanism is designed to support studies that are innovative, have a promise of major impact, or can meet research needs not yet addressed. This program supports investigations by individuals who are committed to teacher-investigator careers in the university/college academic environment or in external research institutes or laboratories. The competition encourages research ideas that might be considered groundbreaking with potential to be of high impact for the discipline, and the review will be weighted to this innovation factor. Research grants are intended to support new research ideas and directions for investigators who are not currently funded in the proposed area of investigation. By contrast, the research grants are not intended to provide additional or extended support for an established and funded research effort.

- URL: <https://www.ashfoundation.org/grants/New-Century-Scholars-Research-Grant/>



## **Nursing Research Grants Program**

*American Nurses Foundation (ANF)*

**Due Date: 5/1/2016**

Each year, through our **Nursing Research Grants program**, the American Nurses Foundation provides funds to beginner and experienced nurse researchers to conduct studies that contribute toward the advancement of nursing science and the enhancement of patient care. The link below lists the specific grants available. Some have research area requirements, and some require or give preference to membership in a specific nursing association. The [online application](#) is available now. **All applications must be completed by 11:59 p.m. on May 1.** A new feature of the American Nurses Foundation's program is support for **clinically based research**. To support improving the quality of care provided in clinical settings and the integral role nurses play in designing better care, the Foundation will fund studies of systematic, data-guided activities designed to bring about improvement in healthcare delivery funded by the American Nurses Credentialing Center and Stryker Medical.

- URL: <http://www.anfonline.org/MainCategory/NursingResearchGrant.aspx>

## **Sedimentary Geology and Paleobiology (SGP)**

*National Science Foundation (NSF)*

**Due Date: Proposals Accepted Anytime**

The Sedimentary Geology and Paleobiology Program (SGP) supports research in a wide variety of areas in sedimentary geology and paleobiology in order to understand the full range of physical, biological, and chemical processes of Earth's dynamic system. The program supports the study of modern sedimentological and deep-time records of these processes, as archived in Earth's sedimentary crust at all spatial and temporal scales. These records are fingerprints of the processes that produced them and continue to shape the Earth. The Sedimentary Geology and Paleobiology Program (SGP) supports studies of: (1) the changing aspects of life, ecology, environments, and biogeography in geologic time based on fossil plants, animals, and microbes; (2) all aspects of the Earth's sedimentary lithosphere - its insights into the geological processes and rich organic and inorganic resources locked in rock sequences; (3) the science of dating and measuring the sequence of events and rates of geological processes as manifested in Earth's past sedimentary and biological (fossil) record; (4) the geologic record of the production, transportation, and deposition of modern and ancient physical and chemical sediments; and (5) Earth's deep-time (pre-Holocene) climate system. **NSF 16-536**

- URL: <http://www.nsf.gov/pubs/2016/nsf16536/nsf16536.htm>

## MULTIPLE DISCIPLINES

### Education and Health: New Frontiers

*National Institutes of Health (NIH)*

**Due Date: See specific mechanisms below for details**

The goal of this funding opportunity announcement is to support research that will further elucidate the pathways involved in the relationship between education and health outcomes and in doing so to carefully identify the specific aspects and qualities of education that are responsible for this relationship and what the mediating factors are that affect the nature of the causal relationship. For this FOA, education refers to the comprehensive formal instruction that spans the human experience, from early childhood programs to pre-school, elementary and secondary schooling, college and adult learning programs. It includes the social and behavioral processes that are combined with formal instruction in educational environments. A better scientific understanding of the mechanisms linking education and health could lead to additional and improved prevention and therapeutic intervention strategies for important health problems. Note that this FOA is not directed at studies which limit their focus to the impact of specific health education courses or programs on health behaviors; rather, the focus is on the impact of more general education experiences. In order to better understand these pathways, it will be necessary to explore what components or dimensions of education are important to health. The association or pathway between formal education and important health behaviors or diseases may not be causal. Instead it may reflect the influence of confounding or co-existing determinants or bi-directionality. Appropriate research topics for this FOA may involve pilot studies, new analyses of existing data, longitudinal studies, or a balance of approaches tailored for the study hypotheses. **It is strongly encouraged that an application involve new teams of multidisciplinary researchers with expertise in both health and education domains.**

**R01: PAR-16-080: 6/5/2016, 10/5/2016, 2/5/2017**

- URL: <https://grants.nih.gov/grants/guide/pa-files/PAR-16-080.html>

**R21: PAR-16-078: 6/16/2016, 10/16/2016, 2/16/2017**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-16-078.html>

**R03: PAR-16-079: 6/16/2016, 10/16/2016, 2/16/2017**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-16-079.html>

## NEW FACULTY/INVESTIGATOR

### **Innovation in Regulatory Science Awards (IRSA)**

*Burroughs Wellcome Fund (BWF)*

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

BWF identified Innovation in Regulatory Science as an important, underfunded area. This initiative is designed to provide financial support to stimulate research efforts in this area. The awards provide support to academic investigators developing new methodologies or innovative approaches in regulatory science that will ultimately inform the regulatory decisions the Food and Drug Administration (FDA) and others make. This would necessarily draw upon the talents of individuals trained in mathematics, computer science, applied physics, medicine, engineering, toxicology, epidemiology, biostatistics, and systems pharmacology, to name a few.

- URL: <http://www.bwfund.org/grant-programs/regulatory-science/innovation-regulatory-science>

### **Post-Ph.D. Research Grants**

*Wenner-Gren Foundation for Anthropological Research, Inc.*

**Due Date: 5/1/2016, 11/1/2016**

These grants are awarded to individuals to support individual research projects. The program contributes to the Foundation's overall mission to support basic research in anthropology and to ensure that the discipline continues to be a source of vibrant and significant work that furthers our understanding of humanity's cultural and biological origins, development, and variation. The Foundation supports research that demonstrates a clear link to anthropological theory and debates, and promises to make a solid contribution to advancing these ideas. There is no preference for any methodology, research location, or subfield. The Foundation particularly welcomes proposals that employ a comparative perspective, can generate innovative approaches or ideas, and/or integrate two or more subfields.

- URL: <http://www.wennergren.org/programs/post-phd-research-grants>

## SOCIAL & BEHAVIORAL SCIENCES

### College Sexual Assault Policy and Prevention Initiative

*United States Department of Health and Human Services (HHS) - Office of the Assistant Secretary for Health (OASH)*

**Due Date: Non-Binding Letters of Intent 2/25/2016; Applications 4/8/2016**

This notice solicits applications for projects focused on policies to address sexual assault on college campuses. These awards will be used to enhance and implement sexual assault prevention policies through provision of national outreach and technical assistance, development of institutional partnerships, and creation of campus coalitions. For this project, each grantee will disseminate policy information and provide technical assistance on preventing sexual assault based on the recommendations from the White House Task Force on Campus Sexual Assault, the *Not Alone Campaign*, and the *It's On Us Campaign* to the institutions within the grantee's membership. In addition, grantees will partner with at least eight (8) institutions to develop a comprehensive sexual assault prevention policy and plan. OWH encourages national or regional membership-driven organizations who represent interest groups or populations that serve and support post-secondary schools, colleges and universities to apply. **WH-AST-16-001**

- URL: <http://www.grants.gov/web/grants/search-grants.html?keywords=College%20Sexual%20Assault%20Policy%20and%20Prevention%20Initiative>

### Strengthening Working Families Initiative

*United States Department of Labor (DOL)*

*Employment and Training Administration (ETA)*

**Due Date: 3/16/2016**

This announcement solicits applications for the Strengthening Working Families Initiative (SWFI) grant program. On June 23, 2014, President Obama convened the White House Summit on Working Families, which was jointly hosted by the Department of Labor, Center for American Progress and the White House Council on Women and Girls. During the Summit, participants (including businesses, economists, labor leaders, legislators, advocates, the media and ordinary citizens) discussed issues that working families face. The Summit was the beginning of a larger conversation about the changes necessary in society, business policies, and in our laws to ensure that all Americans have the opportunity to have a job and a family. Working parents, particularly those with low incomes and low skills, face significant barriers to employment. Six out of ten households with children have all parents working (married working or single working parents), increasing the need for affordable and quality child care. With more



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parents working, greater access to affordable, high-quality child care is needed but is difficult to find due to steadily increasing child care costs and relatively stagnant funding to cover the costs of child care. Even where affordable child care exists, parents have to deal with unpredictable situations where child care may be unavailable, such as when their child is sick, the child care provider is closed, they are attending professional development sessions, and other emergencies that may result in parents needing alternative solutions. Additionally, an increasing number of families have employers who shift the family member's work schedule with minimal notice, making stable child care harder to find. It can be difficult to handle these unexpected situations, particularly for low-wage workers who cannot afford to take unpaid leave and are less likely to have flexibility in the workplace. While training and education can help move parents into better paying jobs, some of the barriers to employment also serve as barriers to training and education. The lack of access to affordable and consistent child care can keep parents from attending training and educational programs. Of the 21 million low-income parents, only 1 in 10 participates in education and training. For those low-income parents participating in education and training, almost half were working at the same time, resulting in the additional burden of arranging for and paying the cost of child care while at work, while in training, and while commuting. As education and earnings are strongly linked, this FOA supports providing access to education and training to help move parents along a career pathway that will lead to better paying jobs. This FOA also encourages applicants to develop an approach that provides skills training leading to family-supporting jobs for low- to middle-skilled parents while simultaneously developing and implementing a plan for the applicant's community or region that helps families better navigate the existing complex systems of supportive services, including increased access to child care. To help meet these objectives, the Department is interested in supporting evidence-based strategies or innovations based on these models that remove a range of barriers to training, including child care and other needs that working families face, by investing in education and skills training in combination with customized participant supportive services. Of particular interest are new promising ideas developed through human centered design methodology and behavioral insight research. Program strategies must include moving lower- to middle-skilled individuals into middle- to high-skilled jobs, with the goals of increasing family-supporting wages and enabling the success of the parent. In particular, the Department is interested in supporting parents - defined as custodial parent, legal guardian, foster parent, or other person standing in loco parentis - who face a barrier to training, including child care and other participant supportive service needs, and are in need of increasing skills and competencies that will either prepare them for entry into an H-1B-aligned career pathway or advancement along an H-1B-aligned career pathway and into middle- or high-skilled jobs. Through this FOA, the Department aims to address education and training barriers for low- to middle-skilled parents by prioritizing the needs of this targeted population; addressing child care needs for parents seeking education and training; increasing access to child care resources; and bridging the gap between the workforce development and child care systems. As applicants design their training strategies to meet the needs of working parents, they should consider the delivery methods and scheduling of training as important factors in providing the flexibility that working parents may require for participation in training. This may include adjusting curriculum design to provide flexible course offerings, expanding asynchronous learning options, or providing online courses. It could also include delivering training through banded schedules to enable parents to

accommodate their work schedules and make it easier for working parents to make child care arrangements. Another possibility is the inclusion of training onsite at the workplace, particularly if child care is provided in the same location. An important element of this FOA is the need for communities to address how local areas will help parents navigate complex systems and access the child care services they need. The SWFI grants will provide the platform for strengthening partnerships between systems (workforce training providers and child care providers) to ensure consistency in care and flexibility in services. **FOA-ETA-16-05**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?opId=280609>

## Awards

*American College of Psychiatrists*

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

There are seven awards available:

- 1. The Bowis Award** - presented to a member or fellow who has played an important leadership role in the College.
- 2. The Distinguished Service in Psychiatry Award** - recognizes significant achievements and leadership in the field of psychiatry.
- 3. The Award for Research in Geriatric Psychiatry** - is given to an individual who has contributed to advances in geriatric psychiatry.
- 4. The Stanley Dean Award for Research in Schizophrenia** - honors an individual or a group that has made a major contribution to the treatment of schizophrenic disorders.
- 5. The Award for Research in Mood Disorders** - is given to an individual who has advanced the understanding and treatment of mood disorders.
- 6. The Award for Creativity in Psychiatric Education** - recognizes a teaching program that demonstrates innovation in psychiatric education.

- URL: <http://www.acpsych.org/awards>

## STUDENTS

### **Damon Runyon Fellowship Award (Damon Runyon Postdoctoral Research Fellowships)**

*Damon Runyon Cancer Research Foundation*

**Due Date: 3/15/2016, 8/15/2016**

The fellowship supports the training of the brightest postdoctoral scientists as they embark upon their research careers. This funding enables them to be mentored by established investigators in leading research laboratories across the country. The Foundation encourages all theoretical and experimental research relevant to the study of cancer and the search for cancer causes, mechanisms, therapies and prevention.

- URL: <https://www.damonrunyon.org/for-scientists/application-guidelines/fellowship/forms>