

## Funding Bulletin

January 31<sup>st</sup>, 2014 (Vol. 1, No. 10)

### Funding Information

To receive funding information, please contact Sarah Haug, Funding Opportunity Specialist, Office of Research and Technology Transfer, phone: 316-978-6803, e-mail: [sarah.haug@wichita.edu](mailto:sarah.haug@wichita.edu)

NOTICE – The Funding Bulletin is available 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.

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).

## 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 no limited submissions:

### **(1) NIH Director's Biomedical Research Workforce Innovation Award: Broadening Experiences in Scientific Training (BEST) (DP7)**

*National Institutes of Health (NIH)*

**Due Date: Internal 2/7/2014; Letters of Intent 2/28/2014; Applications 3/31/2014**

The purpose of this FOA is to seek out, identify and support bold and innovative approaches designed to broaden graduate and postdoctoral training, such that training programs reflect the range of career options that Ph.D. graduate students and postdoctoral (regardless of funding source) pursue and that are required for a robust biomedical, behavioral, social and clinical research enterprise. Collaborations with non-academic partners are encouraged to ensure that experts from a broad spectrum of research-intensive and research-related careers contribute to coursework, rotations, internships or other forms of exposure. This program will establish a new paradigm for graduate and postdoctoral training; awardee institutions will work together to define needs and share best practices. **Only one application per institution is allowed. RFA-RM-13-019**

- URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-13-019.html>

## INTERNAL OPPORTUNITIES

### **Award for Research/Creative (ARC)**

*Wichita State University*

**Due Date: 2/3/2014**

Applications for Award for Research/Creative Projects (ARC) are due to the Office of Research and Technology Transfer by Feb. 3 at 5:00 p.m. Award for Research/Creative projects provide salary/fringes of \$3,000\* for 2 months, plus \$1,000 for other operating expenses (total of \$4,000) to enable faculty to pursue research or creative projects during the summer (grant period May 1 - Aug

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31, 2014). Awardees are expected to resume their teaching in the fall for the next academic year. A faculty member may receive only one of the following in a fiscal year: an ARCS, a University Research/Creative Projects Award (URCA), or a Multidisciplinary Research Project Award (MURPA). Those who accept any summer appointment from their college (for the summer grant period) are ineligible. Application and instructions are available on the research website and may be submitted electronically to [proposals@wichita.edu](mailto:proposals@wichita.edu) or Campus Box 7.

For more information, visit

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

### **Flossie E. West Foundation Award**

*Wichita State University*

**Due Date: 3/3/2014**

Applications for the Flossie E. West Foundation Award are due to the Office of Research and Technology Transfer by March 3<sup>rd</sup> at 5:00p.m. The award provides support for research relating to the study and cure of cancer. Awards are intended as seed money to develop pilot data for proposals to be submitted to governmental agencies, foundations, or industries (grant period May 1, 2014 – April 30, 2015). Funds are restricted to WSU faculty project expenses; all WSU faculty members with research interests in the study of cancer are eligible. Application and instructions are available on the research website and may be submitted electronically to [proposals@wichita.edu](mailto:proposals@wichita.edu) or Campus Box 7.

For more information, visit

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

## **GENERAL**

### **Phase 1 Idea Labs on Undergraduate STEM Education (IUSE)**

*National Science Foundation (NSF)*

**Due Date: 2/4/2014**

The Directorate for Education and Human Resources has implemented a new program for “Improving Undergraduate STEM Education” (IUSE) through its Division of Undergraduate Education (EHR/DUE). The IUSE program description [PD 14-7513] outlines a broad funding opportunity to support projects that address immediate challenges and opportunities facing undergraduate science, technology,

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engineering, and math (STEM) education, as well as those that anticipate new structures and function of the undergraduate STEM learning and teaching enterprise. The IUSE program description creates an opportunity to submit unsolicited proposals across all topics and fields affecting undergraduate STEM education. It also includes an opportunity to participate in the first phase of three different Ideas Labs aimed at incubating innovative approaches for advancing undergraduate STEM education in three disciplines (biology, engineering, and the geosciences). These “**IUSE Phase I Ideas Labs**” will bring together relevant disciplinary and education research expertise to produce research agendas that address discipline-specific workforce development needs. The IUSE program description has invited participation in Ideas Labs for three different disciplines (**Biology, Engineering, Geosciences**), each of which has unique priorities and needs regarding workforce development. Together, they define a portfolio of issues that have broader relevance among all NSF-supported disciplines, suggesting there is potential that many of the strategies derived through the Ideas Lab process may have broader application. The Ideas Labs will be held during the dates of **March 3-7, 2014, March 17-21, 2014, and March 31-April 4, 2014**. Specific disciplines are not yet assigned to specific dates. The locations of the Ideas Labs have not been finalized, but all are expected to be held within a 75 mile radius of the Washington, DC metro region. Information on the assigned dates, site, travel information, and other logistics will be provided to all selected participants prior to the event. Travel and subsistence costs to attend one of the Phase I Ideas Labs will be reimbursed by NSF; all incidental costs incurred while at the event must be met by the participant. **NSF 14-033**

- URL: <http://webs.wichita.edu/?u=WSURESEARCHADMIN&p=/FundingOpportunities/>

## National Employment Survey RFP

*Kessler Foundation*

**Due Date: 3/3/2014**

The [Kessler Foundation](#) is seeking proposals from qualified public and nonprofit teams experienced in survey research and design to conduct a comprehensive survey on the employment status of working age persons (ages 18 to 64) with disabilities. The objective of this nationally representative survey is to inform the general public, disability advocates, the business community, government, funders, and others about the status of employment for individuals with disabilities. This information can be used for research, employment recruitment and hiring, policy development, and grantmaking. Candidates are expected to design the survey instrument as well as sampling and data collection methodologies; select or acquire survey samples; collect, process, and analyze data; and prepare a written report of survey results. The project is expected to begin on or about June 1, 2014, and must be completed by April 30, 2015. Survey results will be released publicly in July 2015 for the twenty-fifth anniversary of the Americans with Disabilities Act. Organizations may apply for a one-year grant of up to \$500,000. To be eligible, applicants must be tax-exempt entities under the Internal Revenue Code, including U.S.-based nonprofit organizations, public/private schools, and public institutions such as universities

and government. For complete program guidelines and application procedures, see the Kessler Foundation Web site.

- URL: <http://kesslerfoundation.org/grantprograms/nationalemploymentsurveyrfp.php>

### **Dear Colleague Letter: SaTC EAGERs Enabling New Collaborations Between Computer and Social Scientists**

*National Science Foundation (NSF)*

**Due Date: Summaries 3/1/2014, 5/1/2014**

The National Science Foundation is announcing its intentions to build upon the success of previous Early Concept Grants for Exploratory Research (EAGERs) in the area supported by the Secure and Trustworthy Cyberspace (SaTC) program (see solicitation 13 578: <http://www.nsf.gov/pubs/2013/nsf13578/nsf13578.htm>) and to accept additional EAGER proposals that encourage novel interdisciplinary research resulting from new collaborations between one or more Computer and Information Science and Engineering (CISE) researchers and one or more Social, Behavioral and Economic Science (SBE) researchers. (Research teams with a history of collaborating together should instead submit directly to the SaTC solicitation.) The proposed research should fit both the Trustworthy Computing (TWC) and the Social, Behavioral and Economic (SBE) Sciences perspectives within the SaTC solicitation. **NSF 14-016**

- URL: <http://www.nsf.gov/pubs/2014/nsf14016/nsf14016.jsp>

### **Cyberlearning and Future Learning Technologies (Cyberlearning)**

*National Science Foundation (NSF)*

**Due Dates: Letters of Intent (Integration Projects Only) 5/12/2014;**

**Full Proposals: Exploration Projects - 3/19/2014, 12/19/2014**

**Development and Implementation Projects - 3/24/2014, 1/19/2015**

**Integration Projects - 7/14/2014**

**Capacity-Building Projects – 3/28/2014, 7/25/2014, 12/1/2014**

The purpose of the *Cyberlearning and Future Learning Technologies* program is to integrate opportunities offered by emerging technologies with advances in what is known about how people learn to advance three interconnected thrusts:

- **Innovation:** inventing and improving next-generation genres (types) of learning technologies, identifying new means of using technology for fostering and assessing learning, and proposing new ways of integrating learning technologies with each other and into learning environments to foster and assess learning;
- **Advancing understanding of how people learn in technology-rich learning environments:** enhancing understanding of how people learn and how to better foster and assess learning, especially in technology-rich learning environments that offer new opportunities for learning and through data collection and computational modeling of learners and groups of learners that can be done only in such environments; and
- **Promoting broad use and transferability of new genres:** extracting lessons from experiences with these technologies that can inform design and use of new genres across disciplines, populations, and learning environments; advancing understanding of how to foster learning through effective use these new technologies and the environments they are integrated into.

The intention of this program is to advance technologies that specifically focus on the experiences of learners; innovations that simply focus on making teaching easier will not be funded. Proposals that focus on teachers or facilitators as learners are invited; the aim in these proposals should be to help teachers and facilitators learn to make the learning experiences of learners more effective. Proposals are expected to address all three of the program's thrusts. Of particular interest are technological advances that (1) foster deep understanding of content coordinated with masterful learning of practices and skills; (2) draw in and encourage learning among populations not served well by current educational practices; and/or (3) provide new ways of assessing understanding, engagement, and capabilities of learners. It is expected that research funded by this program will shed light on how technology can enable new forms of educational practice. This program does not support proposals that aim simply to implement and evaluate a particular software application or technology in support of a specific course. Awards will be made in three research categories, each focusing on a different stage of research and development: Exploration (EXP), Design and Implementation (DIP), and Integration (INT). The program will also support small Capacity-Building Projects (CAP), e.g., conferences, workshops, and partnership-building activities, and will continue to participate in NSF's Foundation-Wide programs: EAGER, RAPID, INSPIRE, and CAREER. An individual may participate as PI or Co-PI in **no more than a total of two (2)** EXP, DIP, and INT proposals in any fiscal year (October to September), of which **at most one (1)** may be in the Integration (INT) category. ***These eligibility conditions will be strictly enforced in order to treat everyone fairly and consistently.*** In the event that an individual exceeds this limit, proposals will be accepted based on earliest date and time of proposal submission. Proposals that exceed the limit will be returned without review. ***No exceptions will be made.*** It is expected that PIs and co-PIs will participate in no more than one CAP at a time; prospective PIs should talk to a Program Officer for permission to participate in more than one CAP.

**NSF 14-526**

- **URL:**[http://www.nsf.gov/pubs/2014/nsf14526/nsf14526.htm?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14526/nsf14526.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

## ARTS & HUMANITIES

### Landmarks of American History and Culture: Workshops for School Teachers

*National Endowment for the Humanities (NEH)*

**Due Date: 3/4/2014**

The Landmarks of American History and Culture program supports a series of one-week residence-based workshops for a national audience of K-12 educators. NEH Landmarks of American History and Culture Workshops use historic sites to address central themes and issues in American history, government, literature, art, music, and related subjects in the humanities. Each workshop is offered twice during the summer. Workshops accommodate thirty-six school teachers (NEH Summer Scholars) at each one-week session. The goals of the workshops are to:

- increase knowledge and appreciation of subjects, ideas, and places significant to American history and culture through humanities reading and site study;
- build communities of inquiry and provide models of civility and of excellent scholarship and teaching;
- provide teachers with expertise in the use and interpretation of historical sites and of material and archival resources; and
- foster interaction between K-12 educators and scholarly experts.

NEH Landmarks Workshops are academically rigorous and focus on key primary sources and scholarly works relevant to major themes of American history and culture. Leading scholars should serve as lecturers or seminar leaders. Workshops should also enable participants to work with primary documents and develop a project. NEH Landmarks Workshops are held at or near sites important to American history and culture, such as presidential residences or libraries; colonial-era settlements; major battlefields; historic districts; parks and preserves; sites of key economic, social, political, and constitutional developments; and places associated with major writers, artists, and musicians. Applicants should make a compelling case for the historical significance of the site(s), the material resources available for use, and the ways in which the site(s) will enhance the workshop. **20140304-**

**BH**

- **URL:**<http://www.neh.gov/grants/education/landmarks-american-history-and-culture-workshops-school-teachers>

### **Resource Center Support Grants**

*Kansas Humanities Council (KHC)*

**Due Date: Ongoing**

Grants of up to \$500 are available to Kansas non-profits for honoraria and travel costs associated with hosting a discussion with a humanities professional. Selected professionals are available for discussions about films, discussions about Kansas – the people, places, hopes, and dreams, and/or book discussions. All programs must be free and open to the general public.

- URL: <http://kansashumanities.org/kansas-grants/resource-center-support-grants/>

## **EDUCATION**

### **STEM-C Partnerships: Computing Education for the 21<sup>st</sup> Century (STEM-CP: CE21)**

*National Science Foundation (NSF)*

**Due Date: 3/18/2014**

The STEM-C Partnerships program is a major research and development effort of two NSF Directorates, the Directorate for Education and Human Resources and the Directorate for Computer and Informational Science and Engineering. STEM-C Partnerships combines and advances the efforts of both the former Math and Science Partnership (MSP) and the former Computing Education for the 21<sup>st</sup> Century (CE21) programs. It is critical that our nation maintain a competent, competitive and creative STEM workforce, including teachers. Therefore, a goal of the STEM-C Partnerships program is to inspire and motivate the next generation of the STEM workforce, while ensuring that it has the skills, competencies, and preparation to be successful. Since aspiring teachers acquire a depth of understanding in the sciences, mathematics, engineering, and computer science during their undergraduate years, the STEM-C Partnerships is also a K-16 effort seeking innovations in policies, pedagogies, programs, and/or STEM disciplinary courses that support STEM teachers. A second goal of the program is to elevate the inclusion of computer science in K-12 education. Through this solicitation, NSF seeks to support three types of awards: Broadening Participation and Education in Computing, CS 10K, and STEM-C Partnerships Computer Science Education Expansion. The CISE community is encouraged to apply, as appropriate, to the related programs in the Directorate for Education and Human Resources (EHR). These include STEM-CP: MSP, Improving Undergraduate STEM Education (IUSE), the Robert Noyce Teacher Scholarship Program, Discovery Research K-12 DRK-12, Research on



Education and Learning (REAL), Innovative Technology Experiences for Students and Teachers (ITEST), and Advanced Technological Education (ATE). **NSF 14-523**

- **URL:**[http://www.nsf.gov/pubs/2014/nsf14523/nsf14523.htm?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14523/nsf14523.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

### **STEM-C Partnerships: MSP**

*National Science Foundation (NSF)*

**Due Date: 3/18/2014**

The STEM-C Partnerships program is a major research and development effort of two NSF Directorates, the Directorate for Education and Human Resources and the Directorate for Computer and Information Science and Engineering, which supports innovative partnerships to improve teaching and learning in science, technology, engineering, and mathematics (STEM) disciplines. STEM-C Partnerships combines and advances the efforts of both the former Math and Science Partnership (MSP) and the former Computing Education for the 21<sup>st</sup> Century (CE21) programs. It is critical that our nation maintain a competent, competitive and creative STEM workforce, including teachers. Therefore, a goal of the STEM-C Partnerships program is to inspire and motivate the next generation of that workforce, while ensuring that it has the skills, competencies, and preparation to be successful. Since aspiring teachers acquire a depth of understanding in the sciences, mathematics, engineering, and computer science during their undergraduate years, the STEM-C Partnerships program is also a K-16 effort seeking innovations in policies, pedagogies, programs, and/or in STEM disciplinary courses that support STEM teachers. A second goal of the program is to elevate the inclusion of computer science in K-12 education. Through this solicitation, NSF seeks to support two types of awards: **Targeted Partnership awards** and **STEM-C Partnerships Computer Science Education Expansion awards**. **NSF 14-522**

- **URL:**[http://www.nsf.gov/pubs/2014/nsf14522/nsf14522.htm?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14522/nsf14522.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

## ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

### Early Career Faculty (ECF)

*National Aeronautics and Space Administration (NASA)*

**Due Date: Notices of Intent 2/14/2014; Proposals 3/14/2014**

Notice seeking proposals focused on supporting outstanding faculty researchers early in their careers as they conduct space technology research of high priority to NASA's Mission Directorates. The National Aeronautics and Space Administration (NASA) Headquarters has released a solicitation, titled "Early Career Faculty (ECF)", as an Appendix to the Space Technology Mission Directorate (STMD) NASA Research Announcement (NRA), titled "Space Technology Research, Development, Demonstration, and Infusion 2014 (SpaceTech-REDDI-2014)", on January 22, 2014. To access the Appendix, please follow these steps: 1. Open the NSPIRES homepage at <http://nspires.nasaprs.com/> 2. Select "Solicitations" 3. Select "Open Solicitations" 4. Select "Space Technology Research, Development, Demonstration, and Infusion 2014 (SpaceTech-REDDI-2014)" 5. Select the "List of Open Program Elements" 6. Select "NNH14ZOA001N-14ECF-B1" STMD's Space Technology Research Grants Program seeks proposals from accredited U.S. universities on behalf of faculty members beginning their independent careers. This Appendix is focused on supporting outstanding faculty researchers early in their careers as they conduct space technology research of high priority to NASA's Mission Directorates. NASA is seeking proposals that plan to pursue innovative, early-stage space technology research in the topic areas specifically described in the Appendix. Our Nation's universities couple fundamental research with education, encouraging a culture of innovation based on the discovery of knowledge. Universities are, therefore, ideally positioned to both conduct fundamental space technology research and diffuse newly-found knowledge into society at large through graduate students and industrial, government, and other partnerships. STMD investments in space technology research at U.S. universities will promote the continued leadership of our universities as an international symbol of the country's scientific innovation, engineering creativity, and technological skill. Only accredited U.S. universities are eligible to submit proposals on behalf of their outstanding new faculty members who intend to develop academic careers related to space technology. The proposed research project must be led by a single, eligible Principal Investigator (PI). The PI must be a recent Ph.D. recipient, defined as having graduated on or after January 1, 2007. The PI must be an untenured Assistant Professor on the tenure track at the sponsoring U.S. university at the time of award. The PI must be a U.S. citizen or have lawful status of permanent residency (i.e., holder of a U.S. Permanent Resident Card, also referred to as a Green Card). The PI may not be a current or former recipient of a Presidential Early Career Award for Scientists and Engineers (PECASE). The PI must be the primary researcher on the effort. Co-Investigators are not permitted. Collaborators are permitted. A PI may submit only one proposal in response to this Appendix. There is no limit on the number of proposals which may be submitted by an accredited U.S. university. NASA encourages submission of ECF proposals on behalf of early career faculty members at all institutions and

especially encourages proposals submitted on behalf of women, members of underrepresented minority groups, and persons with disabilities.

**FON: NNH14ZOA001N-14ECF-B1**

- **URL:**<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={652EA8D6-AB98-5B26-22DD-DB02B6EB3659}&path=init>

### **Control Systems (CS)**

*National Science Foundation (NSF)*

**Due Date: 2/15/2014, 10/1/2014**

The Control Systems (CS) program supports fundamental research on control theory and control technology driven by real life applications. The program emphasis is on paradigm-shifting ideas for control strategies that are inspired by nature, unconventional applications, and the combined roles of feedback, feedforward and uncertainty in systems. The program supports research that advances fundamental understanding, analysis and synthesis of control strategies and tools based on system formulation, assumptions and constraints that are motivated and derived from real-life applications and/or industry needs. Integration of novel sensing and actuation concepts that combine feedback, communication and signal processing and analysis to achieve a sensing or actuation objectives are also supported. **PD 12-1632**

- **URL:**[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13575&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13575&WT.mc_id=USNSF_39&WT.mc_ev=click)

### **Dynamical Systems (DS)**

*National Science Foundation (NSF)*

**Due Date: 2/15/2014, 10/1/2014**

This program supports innovative research on the theories of dynamical systems, including new analytical and computational tools, as well as the novel application of dynamical systems to engineered systems. The program is especially interested in transformative research in the area of complex systems, uncertain or stochastic nonlinear dynamical systems, model order reduction of nonlinear or infinite dimensional dynamical systems, discrete nonlinear dynamical systems, and modeling, simulation, analysis and design of multi-scale multi-physics dynamical systems. **PD 11-7478**

- **URL:**[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13574&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13574&WT.mc_id=USNSF_39&WT.mc_ev=click)

### **Mechanics of Materials (MOM)**

*National Science Foundation (NSF)*

**Due Date: 2/15/2014, 10/1/2014**

The **Mechanics of Materials** program supports fundamental research on the behavior of solid materials and respective devices under external actions. A diverse and interdisciplinary spectrum of research is supported with emphasis placed on fundamental understanding that i) advances theory, experimental, and/or computational methods in Mechanics of Materials, and/or ii) uses contemporary Mechanics of Materials methods to address modern challenges in material and device mechanics and physics. Proposed research can focus on existing or emerging material systems across time and length scales. Intellectual merit typically includes advances in fundamental understanding of deformation, fracture, fatigue, and contact through constitutive modeling, multiscale and multiphysics analysis, computational methods, or experimental techniques. Recent interests comprise, but are not limited to: contemporary materials including multiphase materials and material systems, soft materials, active materials, low-dimensional materials, phononic/elastic metamaterials, friction, wear; multiphysics methods, mechanics at the nano, meso and microscale and multiscale integration thereof, as well as approaches incorporating fundamental understanding of physics and chemistry into the continuum-level understanding of the response characteristics of materials and material systems. Broader impacts include, but are not limited to: advancing the relevant application of Mechanics of Materials to problems in new technological domains and engineering practice; increasing awareness of the importance and role of Mechanics of Materials in other scientific communities as well as society in general; impacting graduate education in Mechanics of Materials across the US; strengthening undergraduate and K-12 education in and exposure to Mechanics of Materials; and engaging and encouraging the participation of groups traditionally underrepresented in STEM fields. **PD 13-1630**

- **URL:**[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13355&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13355&WT.mc_id=USNSF_39&WT.mc_ev=click)

### **Manufacturing Machines and Equipment (MME)**

*National Science Foundation (NSF)*

**Due Date: 2/15/2014, 10/1/2014**

The MME program supports fundamental research leading to improved manufacturing machines and equipment, and their application in manufacturing processes. Key goals of the program are to advance the transition of manufacturing from skill-based to knowledge-based activities, and to advance technologies that will enable the manufacturing sector to reduce its environmental impacts. A focus is on the advancement of manufacturing machines and related systems engineering

that will enable energy manufacturing, namely the manufacture of facilities and equipment that will enable the conversion of renewable resources into energy products such as electricity and liquid fuels, on a large scale. The program also supports research on laser processing, joining processes and additive manufacturing machines and processes encompassing feature scales from microns to meters (nanometer scale additive manufacturing is supported under the Nanomanufacturing program). **PD 13-1468**

- [URL:http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13346&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346&WT.mc_id=USNSF_39&WT.mc_ev=click)

### **Operations Research**

*National Science Foundation (NSF)*

**Due Dates: 2/15/2014, 10/1/2014**

The OR program supports fundamental research leading to the creation of innovative mathematical models, analysis, and algorithms for optimal or near optimal decision-making, applicable to the design and operation of manufacturing, service, and other complex systems. In addition to the traditional areas of Operations Research which includes discrete and continuous optimization as well as stochastic modeling and analysis, new research thrusts include simulation optimization and self-optimizing systems that can observe, learn, and adapt to changing environments. **PD 10-5514**

- [URL:http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13341&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13341&WT.mc_id=USNSF_39&WT.mc_ev=click)

### **Manufacturing Enterprise Systems (MES)**

*National Science Foundation (NSF)*

**Due Dates: 2/15/2014, 10/1/2014**

The MES program supports research on design, planning, and control of operations in manufacturing enterprises. Research is supported that is both grounded in an interesting and relevant application and requires the development of novel analytical and computational methodologies that may be of broader interest. Topics of interest include supply chain optimization and management; production planning and scheduling; monitoring and control of manufacturing processes; and maintenance and repair. Of particular interest are methods that incorporate increasingly rich enterprise process and product information and models, methods that address sustainability, and methods that incorporate characteristic uncertainty and risk. **PD 13-1786**

- [URL:http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13342&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13342&WT.mc_id=USNSF_39&WT.mc_ev=click)

## **Sensors and Sensing Systems (SSS)**

*National Science Foundation (NSF)*

**Due Dates: 2/15/2014, 10/1/2014**

The Sensors and Sensing System (SSS) program funds fundamental research on sensors and sensing systems. Such fundamental research includes the discovery and characterization of new sensing modalities, fundamental theories for aggregation and analysis of sensed data, fundamentally new approaches for data transmission, and approaches for addressing uncertain and/or partial sensor data. Innovative research in nonlinear prediction, filtering and estimation in the context of sensing systems is also considered in this program. The program does not fund developmental projects, such as sensor development or applications studies. Proposals offering fundamental research topics that are enabled by sensor development or sensor system development should be submitted to the relevant CMMI program in which the fundamental research contribution is being made. In such a case, the SSS program should be listed as a secondary program. Proposals that do not address CMMI relevant research should be submitted to programs in the appropriate division within NSF. Depending on the research objective of the work proposed, PIs submitting proposals in the areas of biosensing and biomedical sensors should consider sending their proposals to the Biosensing, Biophotonics or Biomedical Engineering program in the Division of Chemical, Bioengineering, Environmental and Transport Systems (CBET), and also for areas of biosensing, sensors and actuators they should consider the Electronics, Photonics, and Magnetic Devices (EPMD) or the Communications, Circuits, and Sensing-systems (CCSS) program of the division of Electrical, Communications and Cyber Systems (ECCS). **PD 13-1639**

- **URL:**[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13349&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13349&WT.mc_id=USNSF_39&WT.mc_ev=click)

## **Engineering and Systems Design (ESD)**

*National Science Foundation (NSF)*

**Due Dates: 2/15/2014, 10/1/2014**

The Engineering and Systems Design (ESD) program supports descriptive and normative research leading to a theory of engineering design and an understanding of systems engineering. The program is focused on gaining an understanding of the basic processes and phenomena underlying a view of design where the system life-cycle context informs the identification and definition of preferences, analysis of alternatives, effective accommodation of uncertainty in decision-making, and the relationship between data, information, and knowledge in a digitally-supported environment. The program funds advances in a descriptive understanding of design and basic design theory that span multiple domains, such as the relationship of systems to the environment, the significance of

manufacturability, and the range of complexity from small designed artifacts to large engineered systems. Fundamental research in system science and system engineering theory should be submitted to the System Science (SYS) program. Research in which the primary contribution is observation and description of systems engineering should be submitted to the ESD program, and should identify the System Science program as a secondary program. **PD 13-1464**

- **URL:**[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13340&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13340&WT.mc_id=USNSF_39&WT.mc_ev=click)

### **Systems Science (SYS)**

*National Science Foundation (NSF)*

**Due Date: 2/18/2014, 10/1/2014**

The System Science (SYS) program funds fundamental research on engineered systems that supports the creation of a theoretically sound foundation for systems engineering. The System Science program invites proposals that address fundamental issues critical to the design of large scale complex engineered systems, such as: the relation of the structure of an engineering organization to design outcomes; uncertainty quantification and management from initial engineering design predictions through to operation and maintenance of large scale systems; the manner in which individual design decisions are aggregated to bring about whole systems; path dependence of design decision-making; the way that relevant knowledge and information, mediated by individual engineers organized into very large teams, impact systems engineering outcomes. Research under the Systems Science program should draw on or extend established theory in mathematics, economics, organizational sociology, social psychology, and other relevant fields. The Systems Science program provides an opportunity to connect research on systems engineering or engineering design with basic research in dynamic systems, control systems, optimization, and other systems-related fields. The System Science program does not fund the development of methods, processes or tools. Proposals that have system science or system engineering relevance, but for which the predominant research contribution is within an existing program in CMMI, should be submitted to the appropriate disciplinary program, with the System Science program identified as a secondary program. **PD 12-8085**

- **URL:**[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504788&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504788&WT.mc_id=USNSF_39&WT.mc_ev=click)

## **FY14 Environmental Workforce Development and Job Training Grant**

*Environmental Protection Agency (EPA)*

**Due Date: 2/13/2014**

EPA is announcing the availability of funding to nonprofit organizations and eligible entities to deliver environmental workforce development and job training programs focused on hazardous and solid waste management, assessment, and cleanup associated activities, chemical safety, and wastewater management. These Environmental Workforce Development and Job Training (EWDJT) grants are provided to recruit, train, and place, unemployed and under-employed, including low-income and minority, residents historically affected by hazardous and solid waste sites and facilities with the skills needed to secure full-time, sustainable employment in the environmental field and in the assessment and cleanup work taking place in their communities.

- URL: <http://www.epa.gov/brownfields/job.htm>

## **Design of Engineering Materials Systems (DEMS)**

*National Science Foundation (NSF)*

**Due Date: 2/18/2014, 10/1/2014**

The Design of Engineering Material Systems (DEMS) program supports fundamental research intended to lead to new paradigms of design, development, and insertion of advanced engineering material systems. Fundamental research that develops and creatively integrates theory, processing/manufacturing, data/informatics, experimental, and/or computational approaches with rigorous engineering design principles, approaches, and tools to enable the accelerated design and development of materials is welcome. Research proposals are sought that strive to develop systematic scientific methodologies to tailor the behavior of material systems in ways that are driven by performance metrics and incorporate processing/manufacturing. While an emphasis on a specific material system may be appropriate to provide the necessary project focus, techniques developed should transcend materials systems. Ultimately it is expected that research outcomes will be methodologies to enable the discovery of materials systems with new properties and behavior, and enable their rapid insertion into engineering systems. Proposals that focus on modeling, simulation, and prediction of material performance (even when research is coupled with experiments for validation or guidance) without an intellectual emphasis on design are not appropriate for this program and should be submitted to other disciplinary programs. **PD 12-8086**

- URL: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504809&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504809&WT.mc_id=USNSF_39&WT.mc_ev=click)



## HEALTH & LIFE SCIENCES

### Service Enterprise Systems (SES)

*National Science Foundation (NSF)*

**Due Dates: 2/15/2014, 10/1/2014**

The SES program supports research on strategic decision making, design, planning, and operation of commercial, nonprofit, and institutional service enterprises with the goal of improving their overall effectiveness and cost reduction. The program has a particular focus on healthcare and other similar public service institutions, and emphasizes research topics leading to more effective systems modeling and analysis as a means to improved planning, resource allocation, and policy development.

**PD 10-1787**

- URL:[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13343&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13343&WT.mc_id=USNSF_39&WT.mc_ev=click)

### Biomechanics and Mechanobiology (BMMB)

*National Science Foundation (NSF)*

**Due Dates: 2/15/2014, 10/1/2014**

The BMMB Program supports fundamental research in biomechanics and mechanobiology. An emphasis is placed on multiscale mechanics approaches in the study of organisms that integrate across molecular, cell, tissue, and organ domains. The influence of *in vivo* mechanical forces on cell and matrix biology in the histomorphogenesis, maintenance, regeneration, and aging of tissues is an important concern. In addition, the relationships between mechanical behavior and extracellular matrix composition and organization are of interest. Funded projects may include theoretical, computational, and experimental approaches. The program encourages the consideration of diverse living tissues as smart materials that are self-designing. **PD 14-7479**

- URL:[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13523&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13523&WT.mc_id=USNSF_39&WT.mc_ev=click)

**Coordination Center for Programs to Increase Diversity Among Individuals Engaged in Health-Related Research (PRIDE) (R01)**

*National Institutes of Health (NIH) — Department of Health and Human Services (HHS)*

**Due Date: Letters of Intent 2/13/2014, Applications 3/13/2014**

This Funding Opportunity Announcement (FOA) solicits grant applications from institutions/organizations to serve as the Coordination Center (CC) for the Programs to Increase Diversity Among Individuals Engaged in Health-Related Research (PRIDE). This FOA runs parallel with a separate FOA that solicits applications for eight Summer Institutes (See [RFA-HL-14-021](#)). The Summer Institutes are designed to enable junior faculty and postdoctoral scientists transitioning into academic faculty positions, from underrepresented backgrounds, to further develop their research skills and knowledge to enhance their career development as faculty members and scientists. The purpose of the CC is to support and complement the activities of the Summer Institutes as they enhance the development of a workforce to meet the nation's biomedical, behavioral, and clinical research needs.

The primary tasks of the CC will be to:

- facilitate outreach, participant recruitment, candidate selection, program-wide organization, and assist with identification and orientation of mentors;
- support research experiences through webinar and in person learning activities and;
- facilitate coordination of the education and evaluation activities between the Summer Institute awardees, Summer Institutes participants and the NHLBI;
- develop orientation and facilitate skills development activities for mentors
- support the mentoring of program participants by assisting the Summer Institutes with the formation of participants' mentorship committees;
- conduct cross-site and cross-program evaluations.

In addition, the CC will plan, arrange, support, and facilitate the Annual Program-wide Meetings, Steering Committee meetings, and other PD/PI meetings for the PRIDE program. The CC application should evidence expertise in both program evaluation and program coordination.

**RFA-HL-14-022.** A companion funding opportunity is RFA-HL-14-021 (R25)

- **URL:** <http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-14-022.html>

**Exploratory and Developmental Grant to Improve Health Care Quality through Health Information Technology (IT) (R21)**

*Agency for Health Care Research and Quality – Department of Health and Human Services (DHHS)*

**Due Date: (standard due dates apply) 2/16/2014, 6/16/2014, 10/16/2014**

The purpose of this Funding Opportunity Announcement (FOA) is to fund exploratory and developmental research grants that will contribute to the evidence base of how health IT improves health care quality. This FOA supports the use of a wide variety of research designs in order to generate information regarding the design and development, implementation, use, or impact of health IT on quality. Depending on the research design and intent of the project, applicants may receive support for: (1) pilot and feasibility or self-contained health IT research projects; (2) secondary data analysis of health IT research; or (3) economic (prospective or retrospective) analyses of a health IT project. Each grant application must clearly state which type of the three types of studies is being proposed. **PA-14-001**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-14-001.html>

**Women’s Mental Health during Pregnancy and the Postpartum Period (R21)**

*National Institutes of Health (NIH)*

**Due Date: (standard due dates apply) 2/16/2014, 6/16/2014, 10/16/2014**

The purpose of this Funding Opportunity Announcement (FOA) is to outline priority areas for research related to women’s mental health during pregnancy and the postpartum period. Priority areas include basic and clinical neuroscience, studies of clinical course, epidemiological factors and risk factors, as well as interventions and services research. The NIMH, NICHD, and NIDA are committed to supporting research that will increase scientific understanding of and treatments for mental disorders experienced by women during and following pregnancy. Reduction of the public health burden of mental disorders during this perinatal period will improve the health and well-being of new mothers, their children and families. **PA-12-215**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-12-215.html>

## LIBRARIES

### Residential Fellowships

*American Philosophical Society (APS)*

**Due Date: 3/3/2014**

The American Philosophical Society Library offers short-term residential fellowships for conducting research in its collections. They are a leading international center for research in the history of American science and technology and its European roots, as well as early American history and culture.

- URL: <http://www.amphilsoc.org/grants/resident>

## SOCIAL SCIENCES

### Using Social Media to Understand and Address Substance Abuse and Addiction (R01)

*National Institutes of Health (NIH)*

**Due Dates: Letters of Intent 2/25/2014; Applications 3/25/2014**

This Funding Opportunity Announcement (FOA) is part of a trans-NIH initiative known as Collaborative Research on Addiction (CRAN). The goal of this FOA is to inspire and support research projects investigating the role of social media in risk behaviors associated with the use and abuse of alcohol, tobacco, and other drugs (hereafter referred to as ATOD) and projects using social media to ameliorate such behaviors. Each research project proposed in response to this FOA must be focused on one of the two distinct areas: 1) observational research using social media interactions as surveillance tools to aid in the understanding of the epidemiology, risk factors, attitudes, and behaviors associated with ATOD use and addiction, or 2) intervention research measuring the reach, engagement, and behavioral and health impact of social media-based interventions for the screening, prevention, and treatment, of ATOD use and addiction. Original research preliminary data are not required but all projects are expected to be supported by a strong rationale that is based on integrating to the extent possible the available relevant information from various sources. **RFA-CA-14-008** A companion funding opportunity is RFA-CA-14-009, R21 Exploratory/Developmental Grant.

- URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-008.html>

### **Wayne F. Placek Grants**

*American Psychological Foundation (APF)*

**Due Date: 3/1/2014**

These grants support empirical research from all fields of the behavioral and social sciences on any topic related to lesbian, gay, or bisexual issues. The goal is to increase the general public's understanding of homosexuality and to alleviate the stress that gay men and lesbians experience in this and future civilizations. One \$15,000 grant is available in research support.

Proposals are especially encouraged for empirical studies that address the following topics:

- Heterosexuals' attitudes and behaviors toward lesbians and gay men, including prejudice, discrimination and violence.
- Family and workplace issues relevant to lesbians and gay men.
- Subgroups of the lesbian and gay population that have historically been underrepresented in scientific research.
  
- **URL:** <http://www.apa.org/apf/funding/placek.aspx>