WICHITA STATE UNIVERSITY
RESEARCH AND TECHNOLOGY TRANSFER

Funding Bulletin
December 6th, 2013 (Vol. 1, No. 7)

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*

NOTICE – The Funding Bulletin is available via email. To be added to the electronic mailing list, send an email message to: *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* to have a custom search ran.

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

How to Apply

Proposal development requests should be sent to *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/

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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*, by the internal due date listed in the Funding Bulletin if you wish to submit a limited submission program. There are currently three limited submissions:

(1) Major Research Instrumentation Program (MRI): Instrument Acquisition or Development
National Science Foundation (NSF)
Due Date: Internal 12/20/2013; Proposals 1/23/2014

The Major Research Instrumentation Program (MRI) serves to increase access to shared scientific and engineering instruments for research and research training in our Nation's institutions of higher education, and not-for-profit museums, science centers and scientific/engineering research organizations. This program especially seeks to improve the quality and expand the scope of research and research training in science and engineering, by supporting proposals for shared instrumentation that fosters the integration of research and education in research-intensive learning environments. Each MRI proposal may request support for the acquisition (Track 1) or development (Track 2) of a single research instrument for shared inter- and/or intra-organizational use; development efforts that leverage the strengths of private sector partners to build instrument development capacity at MRI submission-eligible organizations are encouraged. ***If three proposals are submitted, at least one of the proposals must be for instrument development (i.e., no more than two proposals may be for instrument acquisition). NSF 13-517***

- **URL:** *http://www.nsf.gov/pubs/2013/nsf13517/nsf13517.htm*

(2) Faculty Development in the Space Sciences (FDSS)
National Science Foundation (NSF)
Due Date: Internal 12/20/2013; Proposals 1/27/2014

The Geospace Section of the Division of Atmospheric and Geospace Sciences, to ensure the health and vitality of solar and space sciences on university teaching faculties, is pleased to offer awards for the creation of new tenure-track faculty positions within the intellectual disciplines which comprise the space sciences. The aim of these awards is to integrate research topics in solar and space physics into basic physics, astronomy, electrical engineering, geoscience, meteorology, computer science, and applied mathematics programs, and to develop space physics graduate programs capable of

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training the next generation of leaders in this field. Space Science is interdisciplinary in nature and the Faculty Development in the Space Sciences awardees will be expected to establish partnerships within the university community. **Institutions may only submit one proposal in response to this solicitation. NSF 14-506**

- **URL:** *http://www.nsf.gov/pubs/2014/nsf14506/nsf14506.htm*

(3) Alliances for Graduate Education and the Professoriate (AGEP)
National Science Foundation (NSF)
Due Date: Internal 1/3/2014; Proposals 2/5/2014

Notice seeking proposals for support in the development, implementation, study, and dissemination of innovative models and standards of graduate education and postdoctoral training that are designed to improve underrepresented minorities' participation, preparation, and success. AGEP intends to support the following types of projects: Transformation; Knowledge Adoption and Translation (AGEP-KAT); and Broadening Participation Research in STEM Education (AGEP-BPR). **NSF 14-505**

Limit on Number of Proposals per Organization:

- **AGEP-Transformation** - An institution or organization may serve as the lead on one AGEP-Transformation collaborative proposal. An institution or organization may be a partner in multiple AGEP-Transformation projects; however the projects must be distinct and not overlap or have similar activities or education research components. **Each AGEP-Transformation alliance partner must simultaneously submit proposals as part of one collaborative proposal.** (See Chapter II, Section D.4.b for guidance in the preparation of collaborative proposals submitted as separate submissions from multiple organizations.) Institutions and organizations involved in AGEP-Transformation projects may also participate in AGEP-KAT and AGEP-BPR projects.
- **AGEP-KAT and AGEP-BPR -** There are no limits on the number of proposals that can be submitted; however the projects must be distinct and not overlap or have similar activities or education research components with proposals in other AGEP tracks.

- **URL:** *http://www.nsf.gov/pubs/2014/nsf14505/nsf14505.htm*

INTERNAL OPPORTUNTIES

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 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 or Campus Box 7.

For more information, visit
http://webs.wichita.edu/?u=WSURESEARCHADMIN&p=/ORAInternalGrants/ORAInternalGrants/

GENERAL

NIH Small Research Grant Program (R03)
National Institutes of Health (NIH)
Due Dates: (standard due dates apply) 2/16/2014, 6/16/2014, 10/16/2014

The National Institutes of Health (NIH) Investigator-Initiated Small Research Grant (R03) funding opportunity supports small research projects that can be carried out in a short period of time with limited resources. The R03 activity code supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. **PA-13-304**

- **URL:** *http://grants.nih.gov/grants/guide/pa-files/PA-13-304.html*

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Fellowship Program
Smithsonian Institution
Due Date: 1/15/2014

The Smithsonian Institution Fellowship Program is open to graduate students, postgraduates, predoctoral students, as well as postdoctoral and senior investigators. All fellows at the Smithsonian work with a Smithsonian advisor to conduct independent study or research relating to Smithsonian collections, facilities, or staff expertise.

- **URL:** *http://www.smithsonianofi.com/fellowship-opportunities/smithsonian-institution-fellowship-program/*

Digital Information Technology - Data and Computational Research
Alfred P. Sloan Foundation
Due Date: Letters of Inquiry accepted on a continual basis

From the natural sciences to the social sciences to the humanities to the arts, the availability of more data and cheaper computing is transforming research. As costs for sensors, sequencing, and other forms of data collection decline, researchers can generate data at greater and greater scale, relying on parallel increases in computational power to make sense of it all and allowing the investigation of phenomena too large or complex for conventional observation. Grants in the Data and Computational Research sub-program aim to help researchers develop tools, establish norms, and build the institutional and social infrastructure needed to take full advantage of these important developments in data-driven, computation-intensive research. Emphasis is placed on projects that encourage access to and sharing of scholarly data, that promote the development of standards and taxonomies necessary for the interoperability of datasets, that enable the replication of computational research, and that investigate models of how researchers might deal with the increasingly central role played by data management and curation. The Data and Computational Research sub-program is a sub-program of the Foundation's Digital Information Technology program, which seeks to better our understanding of the relationship between technology, information, and society, primarily through research on and the development of digital information technology for the conduct of scholarly research and public engagement with knowledge.

- **URL:** *http://www.sloan.org/major-program-areas/digital-information-technology/data-and-computational-research/*

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New Computational Methods for Understanding the Functional Role of DNA Variants that are Associated with Mental Disorders (R01)
National Institutes of Health (NIH)
Due Date: 2/5/2014, 6/5/2014, 10/5/2014 (standard due dates apply; Letters of Intent due 30 days prior to application due date)

The purpose of this Funding Opportunity Announcement (FOA) is to support the development of advanced computational, bioinformatic and statistical tools to determine the functional relevance of genetic variants associated with mental disorders of complex etiologies identified through genome-wide association or sequencing studies. The overarching goal of this initiative is to support the development of innovative computational methods that facilitate the elucidation of the functionality of genetic variants associated with mental illness, taking into account the added complexities and nuances of brain diseases, and to ultimately inform the identification and validation of potential targets for novel treatment development.   **PAR-13-392**

- **URL:** *http://grants.nih.gov/grants/guide/pa-files/PAR-13-392.html*

ARTS & HUMANITIES

Museums Libraries, and Cultural Organizations Planning Grants
National Endowment for the Humanities (NEH)
Due Date: 1/8/2014

Museums, Libraries, and Cultural Organizations grants provide support for museums, libraries, historic places, and other organizations that produce public programs in the humanities. Grants support the following formats: exhibitions at museums, libraries, and other venues; interpretations of historic places, sites, or regions; book/film discussion programs; living history presentations; other face-to-face programs at libraries, community centers, and other public venues; and interpretive websites and other digital formats.

- **URL:** *http://www.neh.gov/grants/public/museums-libraries-and-cultural-organizations-implementation-grants*

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Museums Connect
American Alliance of Museums (AAM)
Due Dates: Museum Profile Forms 1/13/2014; Statements of Intent 1/20/2014; Final Proposals 4/7/2014

The Museums Connect program strengthens connections and cultural understanding between people in the United States and abroad through innovative projects facilitated by museums and executed by their communities. The program's mission is to build global communities through cross-cultural exchanges while also supporting U.S. foreign policy goals, such as youth empowerment, environmental sustainability and disability rights awareness. Through Museums Connect:

- Communities in the U.S. and abroad develop a broader knowledge about and understanding of one another's cultures.
- Museums and related arts and cultural organizations create replicable models for international collaborations that reach beyond their physical walls to directly engage members of their communities.

Awards are offered on an annual basis (contingent on funding) in amounts between $50,000 and $100,000 and require a 50% cost-share match of direct or indirect expenses. Projects must be mutually beneficial, address critical issues and themes, and include community and museum staff travel between participating countries. Museums Connect does not fund construction or projects focused primarily on staff/institutional development or capacity building, staff-to-staff exchange, traditional exhibit design or object exchange, or artist residencies

- **URL:** *http://www.aam-us.org/resources/international/museumsconnect*

Digital Humanities Implementation Grants
National Endowment for the Humanities (NEH)
Due Date: 2/19/2014

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

start-up phase and are well positioned to have a major impact. Proposals are welcome for digital initiatives in any area of the humanities. Digital Humanities Implementation Grants may involve:

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

Successful projects must make digital innovations and be significant to the humanities.

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

EDUCATION

Robert Noyce Teacher Scholarship Program
National Science Foundation (NSF)
Due Dates: Letters of Intent 2/5/2014, Proposals 3/5/2014

The **Robert Noyce Teacher Scholarship Program** seeks to encourage talented science, technology, engineering, and mathematics majors and professionals to become K-12 mathematics and science teachers. The **Noyce Scholarship Track** provides funds to institutions of higher education to support scholarships, stipends, and academic programs for undergraduate STEM majors and post-baccalaureate students holding STEM degrees who earn a teaching credential and commit to teaching in high-need K-12 school districts. The **NSF Teaching Fellowship/Master Teaching Fellowship Track** provides funding to support STEM professionals who enroll as NSF Teaching Fellows in master's degree programs leading to teacher certification by providing academic courses, professional development, and salary supplements while they are fulfilling a four-year teaching commitment in a high-need school district. This track also supports the development of NSF Master Teaching Fellows by providing professional development and salary supplements for exemplary mathematics and science teachers to become Master Teachers while they fulfill a five-year teaching commitment in high-need school districts. **Capacity Building Projects** support the development of new programs and activities to increase the capacity for institutions to provide innovative teacher preparation programs

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that enable increasing numbers of STEM majors and STEM professionals to become effective K-12 mathematics and science teachers and to develop the capacity to prepare Master science and mathematics teachers. **The PI, or at least one Co-PI, must be a STEM faculty member in a mathematics, science, engineering or computer science department. NSF 14-508**

- **URL:** *http://www.nsf.gov/pubs/2014/nsf14508/nsf14508.htm*

Innovative Technology Experiences for Students and Teachers
National Science Foundation (NSF)
Due Dates: 2/11/2014, 11/6/2014

The ITEST program through research and model-building activities seeks to build understandings of best practice factors, contexts and processes contributing to K-12 students' motivation and participation in the science, technology, engineering, and mathematics (STEM) core domains along with other STEM cognate domains (e.g., information and communications technology (ICT), computing, computer sciences, data analytics, among others) that inform education programs and workforce domains. The ITEST program funds foundational and applied research projects addressing the development, implementation, and dissemination of innovative strategies, tools, and models for engaging students to be aware of STEM and cognate careers, and to pursue formal school-based and informal out-of-school educational experiences to prepare for such careers. ITEST supports two project types: Strategies and SPrEaD (Successful Project Expansion and Dissemination) projects. Strategies projects address the creation and implementation of innovative technology-related interventions that support ITEST's objectives. SPrEaD projects support the wider and broader dissemination and examination of innovative interventions to generate evidence and understanding regarding contextual factors that operate to enhance, moderate, or constrain the desired results. All ITEST projects include activities designed to inform judgments regarding the feasibility of implementing strategies in typical delivery settings such as classrooms and out-of-school settings. **NSF 14-512**

- **URL:** *http://www.nsf.gov/pubs/2014/nsf14512/nsf14512.htm*

ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

NASA Glenn Faculty Fellowship Program (NGFFP)
National Aeronautics and Space Administration (NASA)
Due Date: 1/17/2014

Ten-week fellowships for science and engineering faculty are available at NASA Glenn Research Center, Cleveland, Ohio, during the summer months. Research must be aligned with the research and technology needs of the Glenn Research Center (GRC) and have the potential to advance NASA mission. Faculty stipend is $1,300--$1,500 per week and a relocation allowance will be provided to those fellows who live more than 50 miles from the GRC**.** Research and technology, and engineering engagements comprise NASA mission-related **areas of interest**, including:

A. Acoustics
B. Advanced Energy (Renewable Wind and Solar, Coal Energy and Alternative Energy)
C. Advanced Microwave Communications
D. Aeronautical and Space Systems Analysis
E. Computer Systems and Networks
F. Electric (Ion) Propulsion
G. Icing and Cryogenic Systems
H. Instrumentation, Controls and Electronics
I. Fluids, Computational Fluid Dynamics (CFD) and Turbomachinery
J. Materials and Structures, including Mechanical Components and Lubrication
K. Microgravity Fluid Physics, Combustion Phenomena and Bioengineering
L. Nanotechnology
M. Photovoltaics, Electrochemistry-Physics, and Thermal Energy Conversion
N. Propulsion System Aerodynamics
O. Space Power Generation, Storage, Distribution and Management
P. Systems Engineering

- URL: *https://rt.grc.nasa.gov/main/university-%20affairs/ngffp/*

Climate and Earth System Modeling – SciDAC and Climate Variability and Change
U.S. Department of Energy (DoE); Office of Science (OS)
Due Date: Preapplications 1/9/2014; Applications 3/3/2014

Notice seeking applications to support climate model development addressing climate variability and change. A priority is given to analysis of simulations that enhance understanding of the earth system

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with a focus on modes of variability, extremes and tipping points, detection and attribution techniques, and uncertainty quantification. Climate and Earth System Modeling is part of the Climate and Environmental Sciences Division (CESD) of the U.S. Department of Energy's Office of Biological and Environmental Research (BER). The Climate and Earth System Modeling programs seek to develop and analyze high fidelity community models representing Earth and climate system variability and change, with a significant focus on the response of systems to natural and anthropogenic forcing. As the first of two programs in Climate and Earth System Modeling that participate in this FOA, the Earth System Modeling (ESM) Program seeks to advance computational, dynamical, and biogeophysical representations of the Earth system and its components, and to calibrate, test and assess predictive capabilities using uncertainty quantification methodologies. The second program participating in this FOA, the Regional and Global Climate Modeling (RGCM) Program, seeks to enhance the predictive understanding of the Earth system by analyzing the natural and anthropogenic components of global and regional Earth system models. The use of model simulations in combination with observations enables a deeper understanding of climate variability and change. The ESM and RGCM programs are thus complementary, with ESM focused mainly on climate model development, and RGCM focused mainly on climate system analysis. Both modeling programs collaborate and coordinate with the Terrestrial Ecosystem Science (TES) and Atmospheric System Research (ASR) programs, by utilizing TES and ASR process research activities to inform model development, and by using model simulations to identify where further process research is required in atmospheric and terrestrial systems. **DE-FOA-0001036**

-   **URL:** *http://www.grants.gov/view-opportunity.html?oppId=247993*

Mathematics Travel and Mentoring Grants for Women Researchers
Association for Women in Mathematics
Due Date: 2/1/2014

Travel grants for women mathematics researchers & educators (annual deadlines 2/1, 5/1, & 10/1) enable women to attend selected conferences in fields supported by the National Science Foundation's Mathematical Sciences Division. Maximum of $1,750 is available for domestic travel & $2,300 for foreign travel. Mathematics research (& education research) mentoring travel grants for women (annual deadline 2/1) provide up to seven awards of up to $5,000 each to help junior women researchers develop long-term working relationships with senior mathematicians. Other awards offered.

-   **URL:** *https://sites.google.com/site/awmmath/programs/travel-grants*

2014-2015 Fellowships in the History of Science, Technology, Medicine and Industry
Beckman Center for the History of Chemistry
Due Date: 2/15/2014

The **Beckman Center for the History of Chemistry** at the **Chemical Heritage Foundation**, an independent research library in Philadelphia, is inviting applications for short- or long-term fellowships in the history of science, technology, medicine, and industry. The research collections at CHF range chronologically from the fifteenth century to the present and include 6,000 rare books, significant archival holdings, thousands of images, and a large artifact and fine arts collection, supported by over one-hundred thousand reference volumes and journals. Within the collections there are many areas of special strength, including: alchemy, mining & metallurgy, dyeing and bleaching, balneology, gunpowder and pyrotechnics, gas-lighting, books of secrets, inorganic and organic chemistry, biochemistry, food chemistry, and pharmaceuticals. The Beckman Center currently offers three levels of fellowships.

1) Postdoctoral Fellowships include stipends of $45,000 for a nine-month residence program, and are open to scholars at the post-doctoral level.
2) Dissertation Fellowships include stipends of $26,000 for a nine-month residence program, and are open to graduate students at the dissertation stage.
3) Short-Term Fellowships include stipends of $3,000 per month in for residence programs of one to four months, and are open to all scholars and researchers.

Short-term fellowships are specifically designed around access to the center's research collections, while long-term fellows' work must help to support the mission of the institution and fit with the collections more generally.

- **URL:***http://www.chemheritage.org/research/beckman-center/beckman-center-fellowships/index.aspx*

Nanomanufacturing (NM)
National Science Foundation (NSF)
Due Date: 2/15/2014

Nanomanufacturing is the production of useful nano-scale materials, structures, devices and systems in an economically viable manner. The NSF Nanomanufacturing Program supports fundamental research in novel methods and techniques for batch and continuous processes, top-down (addition/subtraction) and bottom-up (directed self-assembly) processes leading to the formation of complex heterogeneous nanosystems. The program supports basic research in nanostructure and process design principles, integration across length-scales, and system-level integration. The Program

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leverages advances in the understanding of nano-scale phenomena and processes (physical, chemical, electrical, thermal, mechanical and biological), nanomaterials discovery, novel nanostructure architectures, and new nanodevice and nanosystem concepts. It seeks to address quality, efficiency, scalability, reliability, safety and affordability issues that are relevant to manufacturing. To address these issues, the Program encourages research on processes and production systems based on computation, modeling and simulation, use of process metrology, sensing, monitoring, and control, and assessment of product (nanomaterial, nanostructure, nanodevice or nanosystem) quality and performance.The Program seeks to explore transformative approaches to nanomanufacturing, including but not limited to: micro-reactor and micro-fluidics enabled nanosynthesis, bio-inspired nanomanufacturing, manufacturing by nanomachines, additive nanomanufacturing, hierarchical nanostructure assembly, continuous high-rate nanofabrication such as roll-to-roll processing or massively-parallel large-area processing, and modular manufacturing platforms for nanosystems. The Program encourages the fabrication of nanomaterials by design, three-dimensional nanostructures, multi-layer nanodevices, and multi-material and multi-functional nanosystems. Also of interest is the manufacture of dynamic nanosystems such as nanomotors, nanorobots, and nanomachines, and enabling advances in transport and diffusion mechanisms at the nano-scale. The program supports education of the next generation of researchers, and encourages building a workforce trained in nanomanufacturing systems. It is also interested in understanding long-term environmental, health and societal (EHS) implications of large-scale production and use of nano-scale materials, devices and systems. Individual and small group proposals are encouraged to partner with industry and government sponsored laboratories. Proposers are referred to NSF GOALI program for collaborative efforts with industry. NSF contributes fundamental research in support of the NNI's Signature Initiative on Sustainable Nanomanufacturing (available on http://www.nano.gov/).The Nanomanufacturing Program does not support research that focuses on synthesis and characterization of nanomaterials and nanostructures, or the processing, compounding, and manufacture of nanomaterials and nanostructures in bulk quantities. Proposals in these areas should be directed to the appropriate NSF program. **PD 14-1788**

- **URL:** *http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13347*

HEALTH & LIFE SCIENCES

Executive Nurse Fellows Program
Robert Wood Johnson Foundation
Due Date: 1/14/2014

The Robert Wood Johnson Foundation Executive Nurse Fellows program is a three-year advanced leadership program for nurses who aspire to lead and shape health care locally and nationally.

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Fellows strengthen and improve their leadership abilities related to improving health and health care. Executive Nurse Fellows awards are open to registered nurses who hold senior leadership positions in health services, scientific and academic organizations, public health and community-based organizations or systems, or national professional, governmental, and policy organizations. Candidates Executive Nurse Fellow awards must be U.S. citizens or permanent residents at the time of application and have the support of their employing organization to fully engage in all curricular and action learning components of the program. Up to twenty fellowships will be awarded for 2014 with up to $35,000 over three years will be awarded to each fellow. The complete call for applications and application instructions are available at the RWJF Web site.

- **URL:** *http://www.rwjf.org/cfp/enf7?cid=XEM_A7613*

Long Term Research in Environmental Biology
National Science Foundation (NSF)
Due Dates: Preliminary Proposals 1/30/2014; Full Proposals 8/1/2014

The Long Term Research in Environmental Biology (LTREB) Program supports the generation of extended time series of data to address important questions in evolutionary biology, ecology, and ecosystem science. Research areas include, but are not limited to, the effects of natural selection or other evolutionary processes on populations, communities, or ecosystems; the effects of interspecific interactions that vary over time and space; population or community dynamics for organisms that have extended life spans and long turnover times; feedbacks between ecological and evolutionary processes; pools of materials such as nutrients in soils that turn over at intermediate to longer time scales; and external forcing functions such as climatic cycles that operate over long return intervals.
The Program intends to support decadal projects. Funding for an initial, 5-year period requires submission of a preliminary proposal and, if invited, submission of a full proposal that includes a 15-page project description. Proposals for the second five years of support (renewal proposals) are limited to an eight-page project description and do not require a preliminary proposal. All LTREB proposals are reviewed by one or more of the appropriate, participating core programs in the Division of Environmental Biology. The Division limits the number of preliminary proposals on which a given individual may participate, as PI, co-PI, or sub-award Lead, to **no more than two in any year**. "PI, co-PI, or lead senior investigator of a subaward refer to the role an individual would play in a full proposal including all parts of a collaborative proposal. Exercised options to defer an Invited Full Proposal submission or bypass subsequent Preliminary Proposal submission count against this limit. Participating in a proposal as other senior personnel does not count toward this limit. **NSF 14-507**

- **URL:***http://www.nsf.gov/pubs/2014/nsf14507/nsf14507.htm?WT.mc_id=USNSF_25&WT.mc_ev=click*

Animal and Biological Material Resource Centers (P40)
National Institutes of Health (NIH)
Due Dates: (standard due dates apply) 1/25/2014, 5/25/2014, 9/25/2014

This FOA encourages grant applications for national Animal Model, and Animal and Biological Material Resource Centers. These Centers provide support for special colonies of laboratory animals, as well as other resources such as reagents, cultures (cells, tissues, and organs) and genetic stocks that serve the biomedical research community. The resource centers for Animal and Biological Materials collect, maintain, characterize, and distribute defined strains of animals and/or related biological materials to biomedical investigators in a variety of research areas on a local, regional, national and international basis. This funding opportunity is designed to both support continuation of existing resources, and to develop new ones when appropriate. Prior to preparing an application, all applicants are strongly encouraged to consult with Program staff to be advised on appropriateness of the intended resource plans for this program, competitiveness of a potential application and ORIP's program priorities. **PAR-14-005**

- **URL:** *http://grants.nih.gov/grants/guide/pa-files/PAR-14-005.html*

Family & Interpersonal Relationships in an Aging Context (R01)
National Institutes of Health (NIH)
Due Dates: (standard due dates apply) 2/5/2014, 6/5/2014, 10/5/2014

The National Institute on Aging invites researchers to submit innovative R01 research grant applications on aging and the family. The objective of this research program is to expand understanding of the role of families and interpersonal relationships in the health and wellbeing of older people. This will be accomplished through increasing scientific knowledge on the effects of family and interpersonal relationships on behavioral and social processes of relevance to aging; and on how these processes change over the life course and across cohorts. A broad range of methods and approaches are encouraged. **PA-11-128**

- **URL:** *http://grants.nih.gov/grants/guide/pa-files/PA-11-128.html*

LIBRARIES

Sparks! Ignition Grants for Libraries
Institute of Museum and Library Services (IMLS)
Due Date: 2/3/2014

Sparks! Ignition Grants for Libraries (Sparks Grants) are a special funding opportunity within the IMLS National Leadership Grants for Libraries program. These small grants encourage libraries, and archives to prototype and evaluate specific innovations in the ways they operate and the services they provide, resulting in new tools, products, services, or organizational practices. You may propose activities or approaches that involve risk, as long as the project results – be they success, failure, or a combination thereof – offer valuable information to the library field and the potential for improvement in the ways libraries serve their communities. You are required to submit a short white paper, with the results of your work to be publicly posted and shared with the field. Successful proposals will address problems, challenges, or needs of broad relevance to libraries and/or archives. A proposed project should test a specific, innovative response to the identified problem and present a plan to make the findings widely and openly accessible. To maximize the public benefit from federal investments in these grants, the Sparks! program will fund only projects with the following characteristics: **Broad Potential Impact—**You should identify a specific problem or need that is relevant to many libraries and/or archives and propose a testable and measurable solution. Proposals must demonstrate a thorough understanding of current issues and practices in the project's focus area and discuss its potential impact within libraries and/or archives. Proposed innovations should be widely adoptable or adaptable. **Significant Innovation—**The proposed solution to the identified problem must offer strong potential for non-incremental, significant advancement in the operation of libraries and/or archives. You must explain how the proposed activity differs from current practices or takes advantage of an unexplored opportunity, and the potential benefit to be gained by this innovation.

- **URL:** *http://www.imls.gov/applicants/detail.aspx?GrantId=19*

MULTIPLE DISCIPLINES

Short Courses on Mathematical, Statistical, and Computational Tools for Studying Biological Systems (R25)
National Institutes of Health (NIH)
Due Dates: 1/25/2014, 5/25/2014, 9/25/2014 (standard due dates apply; Letters of Intent due 30 days prior to application due date)

This FOA encourages applications from applicant organizations that propose creative and innovative research education programs to integrate mathematical, statistical, and computational approaches into biological, behavioral, and social sciences research. Progress in contemporary biological and behavioral disciplines depends heavily on investigators who are skilled in the use of mathematics, computation, and statistics (collectively referred to as quantitative methods). This is especially true for scientists engaged in multidisciplinary research, systems sciences, model development, and research on large and complex data sets. Many scientists wish to update their quantitative skills, learn new approaches, and/or become familiar with software and the language of quantitative sciences. They also need to understand the assumptions, advantages, and limitations of these approaches. Likewise, many quantitative scientists are interested in applying their skills and knowledge to contemporary biological and behavioral research but may lack formal training in fundamental biological disciplines. These scientists could benefit from training in the goals, nature, issues, and language of biological research.This announcement encourages applications for short courses and workshops that will improve the knowledge and skills of (a) biologists and/or behavioral or social scientists in quantitative sciences and (b) quantitative scientists in biology and/or behavioral social sciences. Applications may address one or both of these areas. **PA-11-351**

- **URL:** *http://grants.nih.gov/grants/guide/pa-files/PA-11-351.html*

Science, Technology, and Society (STS)
National Science Foundation (NSF)
Due Date: 2/1/2014

The Science, Technology, and Society Program (STS) supports scientific research that examines relationships between science (including engineering), technology, and society. Effective STS proposals go beyond simply describing the interaction between science, technology and society. They explain how the proposed research provides new and important scientific insights into the theory or practice of science (or engineering) or into the adoption, use, or diffusion of technology. They also explain how the proposed research would bring to light the underlying assumptions, practices, methods, values, or goals of science, engineering, or technology.

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The program supports proposals on a broad range of topics related to science and society, and it especially welcomes proposals that focus on:

- How ethical issues and values interconnect with science and technology, and how norms and values institutionalized in science and technology engage with society.
- How policy choices affect scientific and technological knowledge production and innovation, and on how scientific and technical knowledge and innovation affect policy decisions.

STS considers proposals that use multiple methods including social scientific, historical, and philosophical methods. It has supported research that uses interpretive, visual, and statistical methods; and analytical, critical, theoretical, empirical, ethnographic, and comparative studies. Proposals that use multiple methods and draw on multiple disciplinary traditions within STS are especially welcome. STS is also responsible for representing the Directorate for the Social, Behavioral and Economic Sciences (SBE) in priority areas and other cross-directorate initiatives, such as NSF's National Nanotechnology Initiative (NNI) and the Ethics Education in Science and Engineering (EESE) program. In these cross-directorate activities, SBE involvement is likely to focus on the historical development, ethical, and social influence or philosophical foundations of the science or technology of the initiative. STS promotes the study of the sciences supported by the various NSF Directorates with respect to their historical, ethical, social, philosophical, and policy dimensions. Cross-directorate collaborations are also strongly encouraged. **NSF 12-509**

- **URL:** *http://www.nsf.gov/pubs/2012/nsf12509/nsf12509.htm*

SOCIAL SCIENCES

Studies on the Uses of Research in Policy and Practice Affecting Youth
William T. Grant Foundation
Due Date: Letters of Intent 1/8/2014

The William T. Grant Foundation seeks to fund high-quality empirical research with the goal of improving the lives of youth between 8 and 25 years of age in the United States. To help accomplish this goal, the foundation is requesting Letters of Inquiry for its Request for Proposals on Understanding the Acquisition, Interpretation, and Use of Research Evidence in Policy and Practice. Support will be provided for empirical theory-building studies of what affects policy makers' and practitioners' acquisition, interpretation, and use of research evidence. The foundation is interested in policy and practice directly relevant to youth in the U.S. Areas of focus can include education, juvenile justice, child welfare, health, family support, employment, mental health, and youth programs. The foundation encourages interdisciplinary projects and welcomes applications from

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researchers in various fields and disciplines, including anthropology, communications, economics, education, family studies, human development, organizational studies, political science, prevention research, psychology, public administration, public policy, public health, social work, and sociology.

- **URL:** *http://www.wtgrantfoundation.org/funding_opportunities/research_grants/use-of-research-evidence*

Open Society Foundations Fellowship
Open Society Foundation
Due Date: 2/1/2014

A program of the **Open Society Foundations**, the Open Society Fellowship was founded in 2008 to support individuals pursuing innovative and unconventional approaches to fundamental open society challenges. The fellowship program seeks to fund work that will enrich public understanding of those challenges and stimulate far-reaching conversations within the Open Society Foundations and in the world at large. A fellowship project might identify a problem that has previously not been recognized, develop new policy ideas to address familiar problems, or offer a new advocacy strategy. Project themes should cut across at least two areas of interest to the Open Society Foundations, including human rights, government transparency, access to information and to justice, and the promotion of civil society and social inclusion. Fellows may produce a variety of work products, including publications such as books, reports, or blogs; public-education projects; or the launch of new campaigns or organizations. They also may engage in activities such as hosting panel discussions, traveling to conferences, participating in policy debates, and aggressively promoting their ideas in public venues. Fellowship projects can include photography, outreach, and advocacy around documentary film and other forms of cultural production.
The program accepts proposals from anywhere in the world. Applicants should possess a deep understanding of their chosen subject and a track record of professional accomplishment. Past and current fellows have included journalists, activists, academics, and practitioners in a variety of fields. Proficiency in spoken English is required. Though most fellowship terms are for one year, the program will consider requests for shorter or longer durations. Most fellows spend a portion of their term in one or more Open Society Foundation offices. Full-time fellows based in the United States will receive a stipend of $80,000 or $100,000, depending on work experience, seniority, and current income. Stipends will be prorated for part-time fellows. For fellows based elsewhere, appropriate adjustments will be made to reflect the cost of living in those countries. In addition to the stipend, fellows will receive a project budget. Visit the Open Society Foundations Web site for complete program guidelines and application instructions.

- **URL:** *http://www.opensocietyfoundations.org/grants/open-society-fellowship*

STUDENTS

Langley Aerospace Research Summer Scholars Program (LARSS)
National Aeronautics and Space Administration (NASA)
Due Date: 2/1/2014

Program supports undergraduate juniors, seniors and first-year graduate students pursuing degrees in aeronautical engineering, mechanical engineering, electrical engineering, materials science, computer science, atmospheric science, astrophysics, physics, chemistry, or selected space disciplines of interest for a paid internship at NASA Langley Research Center, Hampton, Virginia. Applicants can apply for multiple sessions but must do this at same time they apply for their first session.

- **URL:** *http://nia-cms.nianet.org/LARSS-2012/index.aspx*

Simons Award for Graduate Students in Theoretical Computer Science
Simons Foundation
Due Date: 2/12/2014

The **Simons Foundation** is accepting applications for the Simons Award for Graduate Students in Theoretical Computer Science. These awards will be made to graduate students with an outstanding track record of research accomplishments. Theoretical computer science is unique in that graduate students working independently produce some of the best results in the field. The Award for Graduate Students is designed to identify and support these students and enable them to pursue collaborations with peers and more senior researchers. To be eligible, the applicant must be a graduate student who has completed two, three, or four years at a United States or Canadian institution of higher education. A track record of outstanding results in theoretical computer science is the key criterion. There are no citizenship requirements. For-profit organizations may not apply. **There is a limit of two applications per university.**

- **URL:** *https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/simons-graduate-fellowships-in-theoretical-computer-science/*