

Funding Bulletin

November 22nd, 2013 (Vol. 1, No. 6)

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

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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/>

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 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 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 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=/ORAIInternalGrants/ORAIInternalGrants/>

GENERAL

Pilot Projects

NIH Center for Biomedical Research Excellence in Anti-infective Discovery and Development (COBRE)

Due Date: Letters of Intent 12/9/2013

Letters of Intent for Pilot Projects for inclusion in NIH Center of Biomedical Research Excellence in Anti-infective Discovery and Development (COBRE) are being solicited. Any WSU junior investigator (or established investigator with new research direction) proposing research related to anti-infective discovery and development is invited to apply, by sending a LOI including a brief research description to hbcgrant@ku.edu by December 9, 2013.

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

Improving Undergraduate STEM Education

National Science Foundation (NSF)

Due Date: 2/4/2014

A well-prepared, innovative science, technology, engineering and mathematics (STEM) workforce is crucial to the Nation's health and economy. Indeed, recent policy actions and reports have drawn attention to the opportunities and challenges inherent in increasing the number of highly qualified STEM graduates, including STEM teachers. Priorities include educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate populace; both of these priorities depend on the nature and quality of the undergraduate education experience. In addressing these STEM challenges and priorities, the National Science Foundation invests in research-based and research-generating approaches to understanding STEM learning; to designing, testing, and studying curricular change; to wide dissemination and implementation of best practices; and to broadening participation of individuals and institutions in STEM fields. The goals of these investments include: increasing student retention in STEM, to prepare students well to participate in science for tomorrow, and to improve students' STEM learning outcomes. Recognizing disciplinary differences and priorities, NSF's investment in research and development in undergraduate STEM education encompasses a range of approaches. These approaches include: experiential learning, assessment/metrics of learning and practice, scholarships, foundational education research, professional development/institutional change, formal and informal learning environments, and undergraduate disciplinary research. Both individually and integrated in a range of combinations, these approaches can lead to outcomes including: developing the STEM and STEM-related workforce, advancing science, broadening participation in STEM, educating a STEM-literate populace, improving K-12 STEM education, encouraging life-long learning, and building capacity in higher education. NSF accepts unsolicited proposals to support projects that address immediate challenges and opportunities facing undergraduate STEM education, as well as those that anticipate new structures and functions of the undergraduate learning and teaching enterprise. In addition, NSF accepts unsolicited proposals for developing Ideas Labs in biology, engineering, and geosciences that will bring together relevant disciplinary and education research expertise to produce research agendas that address discipline-specific workforce development needs. **PD 14-7513**

- **URL:**https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504976&org=EHR&sel_org=EHR&form=fund

Young Faculty Award (YFA)

Defense Advanced Research Projects Agency (DARPA), Defense Sciences Office (DSO)

Due Date: 1/7/2014

This RA solicits ground-breaking single-investigator proposals from junior faculty for research and development in the areas of Physical Sciences, Engineering, Mathematics, Medicine, Biology,

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.

Information and Social Sciences of interest to DARPA's Defense Sciences Office (DSO), and Microsystems Technology Office (MTO). **DARPA-RA-14-07**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=247637>

NIH Research Project Grant (Parent R01)

National Institutes of Health (NIH)

Due Dates: (standard due dates apply) 2/5/2014, 6/5/2014, 10/5/2014

The Research Project Grant (R01) is the original and historically oldest grant mechanism used by NIH. The R01 provides support for health-related research and development based on the mission of the NIH. R01s can be investigator-initiated or can be in response to a program announcement or request for application. This website is devoted to the investigator-initiated R01 application, which means there are no specific program requirements. However, the R01 research plan proposed by the applicant must be related to the stated program interests of one or more of the NIH Institutes and Centers based on descriptions of their programs. R01s are most often investigator initiated in response to either the R01 Parent Announcement or a Program Announcement highlighting particular scientific areas. Requests for Applications (RFAs) may also utilize the R01 mechanism. The Research Project (R01) grant is an award made to support a discrete, specified, circumscribed project to be performed by the named investigator(s) in an area representing the investigator's specific interest and competencies, based on the [mission of the NIH](#). **PA-13-302**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-13-302.html>

Secure and Trustworthy Cyberspace (SaTC)

National Science Foundation (NSF)

Due Dates: Cybersecurity Education Projects 12/19/2013; Small Projects 1/14/2014 (see solicitation for additional due dates in 2014)

Cyberspace has transformed the daily lives of people for the better. The rush to adopt cyberspace, however, has exposed its fragility and vulnerabilities: corporations, agencies, national infrastructure and individuals have been victims of cyber-attacks. In December 2011, the National Science and Technology Council (NSTC) with the cooperation of NSF issued a [broad, coordinated federal strategic plan](#) for cybersecurity research and development to "change the game," minimize the misuses of cyber technology, bolster education and training in cybersecurity, establish a science of cybersecurity, and transition promising cybersecurity research into practice. This challenge requires a dedicated approach to research, development, and education that leverages the disciplines of mathematics and statistics, the social sciences, and engineering together with the computing, communications and information sciences.

The Secure and Trustworthy Cyberspace (SaTC) program welcomes proposals that address Cybersecurity from a Trustworthy Computing Systems (TWC) perspective and/or a Social, Behavioral and Economic Sciences (SBE) perspective (see "Perspectives"). In addition, we welcome proposals that integrate research addressing both of these perspectives as well as proposals focusing entirely on Cybersecurity Education (see below). Proposals may be submitted in one of the following three categories:

- Small projects: up to \$500,000 in total budget, with durations of up to three years
- Medium projects: \$500,001 to \$1,200,000 in total budget, with durations of up to four years
- Frontier projects: \$1,200,001 to \$10,000,000 in total budget, with durations of up to five years

Projects with Trustworthy Computing Systems and/or Social, Behavioral and Economic Sciences perspectives may include a Transition to Practice (TTP) option, described in a supplemental document of no more than five pages. This document should describe how successful research results are to be further developed, matured, and experimentally deployed in organizations or industries, including in networks and end systems used by members of the NSF science and engineering communities. Proposals with a TTP option may exceed the above-stated maxima by up to \$167,000 for Small projects, \$400,000 for Medium projects and \$750,000 for Frontier projects.

In addition, the SaTC program seeks proposals addressing Cybersecurity Education with total budgets limited to \$300,000 and durations of up to two years. Cybersecurity education projects may not include any of the three perspectives named above. **NSF 13-578**

- URL: <http://www.nsf.gov/pubs/2013/nsf13578/nsf13578.htm>

Grants

Hearst Foundations

Due Date: Rolling

The Hearst Foundations support well-established nonprofit organizations that address significant issues within their major areas of interests – culture, education, health and social service – and that primarily serve large demographic and/or geographic constituencies. In each area of funding, the Foundations look to identify those organizations achieving truly differentiated results relative to other organizations making similar efforts for similar populations. The Foundations also look for evidence of sustainability beyond their support. The Hearst Foundations fund cultural institutions that offer meaningful programs in the arts and sciences, prioritizing those which enable engagement by young people and create a lasting impression. The Foundations also fund select programs nurturing and developing artistic talent. The Hearst Foundations fund educational institutions demonstrating uncommon success in preparing students to thrive in a global society. The Foundations' focus is largely on higher education, but they also fund innovative models of early childhood and K-12 education, as well as professional development. The Hearst Foundations assist

leading regional hospitals, medical centers and specialized medical institutions providing access to high-quality healthcare for low-income populations. In response to the shortage of healthcare professionals necessary to meet the country's evolving needs, the Foundations also fund programs designed to enhance skills and increase the number of practitioners and educators across roles in healthcare. Because the Foundations seek to use their funds to create a broad and enduring impact on the nation's health, support for medical research and the development of young investigators is also considered. The Hearst Foundations fund direct-service organizations that tackle the roots of chronic poverty by applying effective solutions to the most challenging social and economic problems. The Foundations prioritize supporting programs that have proven successful in facilitating economic independence and in strengthening families. Preference is also given to programs with the potential to scale productive practices in order to reach more people in need.

- URL: <http://www.hearstfdn.org/funding-priorities/>

ARTS & HUMANITIES

AMS Subventions for Publications

American Musicological Society (AMS)

Due Date: 2/15/2014

The Publications Committee of the American Musicological Society makes available funds to help with expenses involved in the publication of works of musical scholarship, including books, articles, special issues of journals, and works in non-print media. Individual authors or editors, or their sponsoring organization, society, or department, may apply for assistance to defray costs not normally covered by publishers, such as illustrations, musical examples, facsimiles, accompanying audio or video examples, and permissions. (Author subventions required by publishers are not eligible for reimbursement under the AMS program of subventions for individuals. In such cases, publishers should apply directly to the AMS under the "publishers' subventions" program.) We encourage the submission of proposals from scholars at all stages of their careers. We welcome proposals for projects that make use of newer technologies. *Festschriften*, essay collections, and the like are ordinarily not recommended for subvention. Applications for any amount up to \$2,500 will receive consideration. It is anticipated that most subventions will range between \$500 and \$2,000.

- URL: <http://www.ams-net.org/pubs/subvention.php>

United States Mint Seeking Artists to Design United States Coins and Medals

National Endowment for the Arts (NEA)

Due Dates: Applications 1/10/2014, Work Samples 1/28/2014

The United States Mint is seeking artists interested in taking coin and medal design in new directions and trying new approaches as part of our endeavor to ensure that the designs on United States coins and medals are of the highest quality to best represent our country for years to come. - The United States Mint will award contracts to up to 20 artists to participate in the United States Mint Artistic Infusion Program (AIP) and submit designs for selected coin and medal programs. Depending on the number of active years in the AIP, artists receive between \$2000 and \$3000 for each design submission and an additional \$5000 if their design is selected and used for a coin or medal design. All selected designs are sculpted by United States Mint Sculptor-Engravers, who also prepare designs for coin and medal programs. Artists of selected designs are named as designer in historical documents, Certificates of Authenticity and promotional materials. In most cases, the artist's initials appear on the final coins or medals (along with the initials of the United States Mint Sculptor-Engraver who sculpted the selected design)

- URL: <http://arts.gov/grants-individuals/united-states-mint-call-for-artists>

America's Media Makers: Production & Development Grants

National Endowment for the Humanities (NEH)

Due Date: 1/8/2014

America's Media Makers (AMM) grants support the following formats:

- **interactive digital media;**
- **film and television projects; and**
- **radio projects.**

Interactive digital media may be websites, games, mobile applications, virtual environments, streaming video, podcasts, or other digital formats. **Film and television projects** may be single programs or a series addressing significant figures or events and drawing their content from humanities scholarship. They must be intended for national distribution. **Radio projects** may involve single programs, limited series, or segments within an ongoing program. They may also develop new humanities content to augment existing radio programming or add greater historical background or humanities analysis to the subjects of existing programs. They may be intended for regional or national distribution. NEH encourages projects that feature multiple formats to engage the public in the exploration of humanities ideas. Proposed projects might include complementary components that expand or deepen the audience's understanding of a subject: for example, museum exhibitions,

book/film discussion programs, or other formats that engage audiences in new ways. America's Media Makers grants may not, however, be used to support programs' general operating costs.

Production grants support the production and distribution of digital projects, films, television programs, radio programs, and related programs that promise to engage the public.

Development grants enable media producers to collaborate with scholars to develop humanities content and to prepare programs for production. Grants should result in a script or a design document and should also yield a detailed plan for outreach and public engagement in collaboration with a partner organization or organizations.

- URL: <http://www.neh.gov/grants/public/americas-media-makers-production-grants>

America's Historical and Cultural Organizations: Implementation & Planning Grants

National Endowment for the Humanities (NEH)

Due Date: 1/8/2014

America's Historical and Cultural Organizations (AHCO) 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.**

Implementation grants support final scholarly research and consultation, design development, production, and installation of a project for presentation to the public.

Planning grants support the early stages of project development, including consultation with scholars, refinement of humanities themes, preliminary design, testing, and audience evaluation.

- URL: <http://www.neh.gov/grants/public/americas-historical-and-cultural-organizations-implementation-grants>

BUSINESS

Economic Literacy Grants Programs

Calvin K. Kazanjian Economics Foundation, Inc.

Due Date: 2/15/2014

While the Kazanjian Foundation maintains a vital interest in the overall efforts to increase economic literacy, the Board of Trustees will give special attention to proposals and projects with national impact that addresses the following issues:

- The Foundation makes grants of various sizes. The average grant is approximately \$22,000, however grants as small as \$3,500 and as large as \$150,000 have been made. Occasionally, multi-year grants are made for larger projects.
- The Foundation has an abiding interest in elevating the nation's understanding of the need for economic education. It will support programs that raise various public's participation in economic education and/or create a demand for greater economic literacy.
- The application of new strategies for teaching economics including on-line and web-based instruction is of interest to the Foundation.
- Projects, policy studies, or programs that encourage measurement of economic understanding more often and/or more effectively are of specific interest.
- The large number of students at risk of leaving school, and hence never effectively participating in the nation's economic system are of concern to the Foundation. Programs that help otherwise disenfranchised youth and/or young adults with children learn to participate in the economic system are very important to the Foundation.

- **URL:** <http://www.kazanjian.org/grants/apply>

EDUCATION

Advancing Informal STEM Learning (AISL)

National Science Foundation (NSF)

Due Date: 1/14/2014

The Advancing Informal STEM Learning (AISL) program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal

environments; and develop understandings of deeper learning by participants. The AISL program supports five types of projects: (1) Pathways, (2) Research in Service to Practice, (3) Innovations in Development, (4) Broad Implementation, and (5) Conferences, Symposia, and Workshops. **NSF 13-608**

- URL: <http://www.nsf.gov/pubs/2013/nsf13608/nsf13608.htm>

ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

Space Technology Research, Development, Demonstration, and Infusion 2014

National Aeronautics and Space Administration (NASA)

Due Date: Step A 12/18/2013; Step B 3/3/2014

NASA is looking for visionary concepts that have the potential to enable new missions or significantly improve current approaches to achieve aerospace objectives. The Space Technology portfolio supports a combination of early stage studies, for assessing the feasibility of entirely new technologies (which corresponds to a Technology Readiness Level (TRL) range from 1 to 3); maturing feasible technologies through rapid competitive development and ground based testing (TRL 3-5); and flight demonstrations in a relevant environment to complete the final step to mission infusion (TRL 5-7) (Attachment 2 "Technology Readiness Level Descriptions"). This technological diversity results in a sustainable pipeline of revolutionary concepts. STMD seeks aggressive technology development efforts that may require undertaking significant technical challenges and risk to achieve a higher potential payoff. The focus of this solicitation is to bring the best ideas and talents from all sectors of the aerospace enterprise to solve future technology needs while maximizing the value of the Nation's investment. **SpaceTech-REDDI-2014**

- URL: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={F91599F0-E2FF-1ECC-6D41-C9327242C7D5}&path=open>

Cyber-enabled Manufacturing Systems for Direct Digital Manufacturing

Department of Defense – Office of Naval Research (DoD-ONR)

Due Date: White papers 12/30/2013; Full Proposals 2/13/2014

The Office of Naval Research (ONR) is interested in receiving proposals for Cyber-enabled Manufacturing Systems for Direct Digital Manufacturing (CeMS-DDM). The objective of this research

opportunity is to develop the fundamental principles for CeMS-DDM with the goal of closely coupling computation and manufacturing.

- URL: <http://www.onr.navy.mil/~media/Files/Funding-Announcements/BAA/2014/14-004.ashx>

National Robotics Initiative (NRI) – NEW 2014 Dates Released

National Science Foundation (NSF)

Due Dates: 1/21/2014, 11/13/2014

The goal of the National Robotics Initiative is to accelerate the development and use of robots in the United States that work beside, or cooperatively with, people. Innovative robotics research and applications emphasizing the realization of such co-robots acting in direct support of and in a symbiotic relationship with human partners is supported by multiple agencies of the federal government including the National Science Foundation (NSF), the National Aeronautics and Space Administration (NASA), the National Institutes of Health (NIH), and the U.S. Department of Agriculture (USDA). The purpose of this program is the development of this next generation of robotics, to advance the capability and usability of such systems and artifacts, and to encourage existing and new communities to focus on innovative application areas. It will address the entire life cycle from fundamental research and development to manufacturing and deployment. Methods for the establishment and infusion of robotics in educational curricula and research to gain a better understanding of the long term social, behavioral and economic implications of co-robots across all areas of human activity are important parts of this initiative. Collaboration between academic, industry, non-profit and other organizations is strongly encouraged to establish better linkages between fundamental science and technology development, deployment and use. **NSF 14-500**

- URL: <http://www.nsf.gov/pubs/2014/nsf14500/nsf14500.htm>

Energy for Sustainability

National Science Foundation (NSF)

Due Date: 2/20/2014

This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Current interest areas in sustainable energy technologies are highlighted below:

- **Biomass Conversion, Biofuels & Bioenergy.** Photosynthetic processes used by plants or algae use sunlight to convert atmospheric CO₂ to energy-rich metabolites (carbohydrates, lipids, or hydrocarbons) which can be processed into transportation fuels. Fundamental research on

innovative approaches for the intensification of biofuel and bioenergy processes is an emphasis area of this program. Specific areas of interest include: biological, thermochemical, or thermocatalytic conversion of lignocellulosic biomass to biofuels beyond cellulosic ethanol; microbial fuel cells for direct production of electricity from renewable carbon sources; process-based, scalable approaches for the biological or bio-mimetic generation of electricity directly from sunlight; hydrogen production from autotrophic and heterotrophic microorganisms; hydrocarbons and lipids from autotrophic or heterotrophic microorganisms. The proposals primarily dealing with the reactor or catalyst designs should be submitted to the **Process and Reaction Engineering program** or the **Catalysis and Biocatalysis program**, respectively.

- **Photovoltaic Solar Energy.** Solar photovoltaic (PV) devices harvest and convert sunlight directly to electricity. Fundamental research on innovative processes for the fabrication and theory-based characterization of future PV devices is an emphasis area of this program. Specific areas of interest include: nano-enabled PV devices containing nanostructured semiconductors, plasmonic materials, photonic structures, or conducting polymers; earth-abundant and environmentally benign materials for photovoltaic devices; photocatalytic or photoelectrochemical processes for the splitting of water into H₂ gas, or for the reduction of CO₂ to liquid or gaseous fuels. The generation of thermal energy by solar radiation is not an area supported by this program, but will be considered by the **Thermal Transport Processes program** within CBET.
- **Wind Energy.** Fundamental engineering research, supported by modeling and simulation studies, that leads to new processes to efficiently harness wind energy for the production of electrical power is an interest area of this program. Research that focuses on materials science issues associated with wind energy systems will not be considered by this **Energy for Sustainability program**. Projects involving fluid mechanics components as part of a systems approach to wind energy should be submitted to **this program**; projects focused on new computational fluid mechanics modeling should be submitted to the **Fluid Dynamics program**.
- **Advanced Batteries for Transportation.** Radically new battery systems or breakthroughs based on existing systems can move the US rapidly toward a more sustainable transportation future. The focus is on high-energy density and high-power density batteries suitable for transportation applications. Advanced systems such as lithium-air, sodium-ion, as well as lithium-ion with new cathode chemistries are appropriate. Work on commercially available systems such as lead-acid and nickel-metal hydride will not be considered by this program. **PD 14-7644**
- **URL:** http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026&org=ENG&sel_orq=ENG&form=fund

HEALTH & LIFE SCIENCES

Environmental Biology (Core Programs) (DEB)

National Science Foundation (NSF)

Due Date: Preliminary Proposals 1/23/2014; Full Proposals 8/4/2014

The Division of Environmental Biology (DEB) supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles. Research on organismal origins, functions, relationships, interactions, and evolutionary history may incorporate field, laboratory, or collection-based approaches; observational or manipulative experiments; synthesis activities; as well as theoretical approaches involving analytical, statistical, or computational modeling. **NSF 14-503**

- URL: http://www.nsf.gov/pubs/2014/nsf14503/nsf14503.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Analysis of Genome-Wide Gene-Environment (G x E) Interactions (R21)

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

Due Date: Letters of Intent 1/14/2014; Applications 2/14/2014

The purpose of this FOA is to provide support for research projects that involve secondary data analyses of existing genome-wide data from genome-wide association studies or other large genomic datasets for the purpose of identifying gene-environment interactions. The ultimate objective of this funding opportunity is the discovery of complex interplays of genes and environmental factors in human populations which may disclose novel genetic susceptibilities to environmental exposures or a greater understanding of the role of environmental exposures in the development, progression, and severity of complex human diseases. **PAR-13-382**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-13-382.html>

Winter 2014 Programs: Mid-West Affiliate

American Heart Association (AHA)

Due Date: 1/14/2014

The Mid-West Affiliate is offering the follow programs:

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.

- Grant-in-Aid
- Mentored Clinical & Population Research Award (formerly Clinical Research Program)
- Postdoctoral Fellowship
- Predoctoral Fellowship
- Scientist Development Grant
- Undergraduate Student Research Program**

** January 24, 2014 is the application deadline for the Undergraduate Student Research Program and WSA Medical Student Research Program.

Click on the following link for individual program information:

- **URL:**http://my.americanheart.org/professional/Research/FundingOpportunities/ForScientists/Programs-by-Funding-Component_UCM_323091_Article.jsp

INTERNATIONAL

Partnerships for Enhanced Engagement in Research (PEER) Science

United States Agency for International Development (USAID)

Due Date: 1/13/2014

The Partnerships for Enhanced Engagement in Research (PEER) Science program is now accepting proposals from developing country researchers interested in collaborating with their U.S. NSF funded counterparts. PEER Science is a partnership between the United States Agency for International Development (USAID) and the National Sciences Foundation (NSF), intended to address development challenges through international research collaboration. This competitive grants program allows scientists in developing countries to apply for funds to support research and capacity-building activities in partnership with their NSF-funded collaborators on topics of importance to USAID. Furthermore, should a PEER collaboration be selected for funding, the U.S. collaborator may then request an international supplement from NSF to defray the cost of this international partnership.

- **URL:** http://sites.nationalacademies.org/PGA/dsc/PGA_071743

Grant Programs

Longview Foundation

Due Date: 1/23/2014

The Longview Foundation for Education in World Affairs and International Understanding Foundation supports the following types of education activities: State Coalitions for International Education, Internationalizing Teacher Preparation, and Innovations in International Education; We only fund organizations that have received non-profit determinations from the IRS; The Longview Foundation is deeply interested in supporting activities that have other sources of funding and can demonstrate sustainability beyond the grant period. Foundation makes grants to promote learning about world regions, cultures, international affairs and global issues in K-12 schools in the United States.

- URL: <http://www.longviewfdn.org/7/program-guidelines.html>

LIBRARIES

ProQuest Innovation in College Librarianship Award

American Library Association (ALA)

Due Date: 12/6/2013

One \$3,000 award will be made to an individual USA librarian or team of librarians working in an academic library setting primarily serving undergraduates. The purpose of this award is to recognize innovation in college librarianship. As nominee(s), the librarian(s) must have demonstrated a capacity for innovation in working with, or serving, undergraduates or instructors in the areas of programs, services, and operations; or creating innovations for library colleagues that facilitate their ability to better serve the library's community.

- URL: <http://www.ala.org/awardsgrants/awards/338/apply>

National Leadership Grants for Libraries

Institute of Museum and Library Services (IMLS)

Due Date: 2/3/2014

Notice seeking applications proposing projects that address challenges faced by the museum, library, and/or archive fields and that have the potential to advance practice in those fields. Three main categories are: Advancing Digital Resources, Research, and Demonstration. Applicants may choose to

submit a Project Grant, Planning Grant, or National Forum Grant proposal in any of the above categories. Collaboration with community organizations is encouraged.

- URL: <http://www.ims.gov/applicants/detail.aspx?GrantId=14>

MULTIPLE DISCIPLINES

Methodology, Measurement and Statistics (MMS)

National Science Foundation (NSF)

Due Date: 1/16/2014

The Methodology, Measurement, and Statistics (MMS) Program is an interdisciplinary program in the Social, Behavioral, and Economic Sciences that supports the development of innovative analytical and statistical methods and models for those sciences. MMS seeks proposals that are methodologically innovative, grounded in theory, and have potential utility for multiple fields within the social and behavioral sciences. As part of its larger portfolio, the MMS Program partners with a consortium of federal statistical agencies to support research proposals that further the development of new and innovative approaches to surveys and to the analysis of survey data. The MMS Program supports a variety of different types of awards, including: 1. Regular Research Awards 2. Mid-Career Research Fellowships 3. Doctoral Dissertation Research Improvement Grants 4. Research Experience for Undergraduates (REU) Supplement CFDA 47.075 **NSF 12-510**

- URL: <http://www.nsf.gov/pubs/2012/nsf12510/nsf12510.htm>

Law & Social Sciences (LSS)

National Science Foundation (NSF)

Due Dates: 1/15/2014, 8/1/2014

The Law & Social Sciences Program considers proposals that address social scientific studies of law and law-like systems of rules. The program is inherently interdisciplinary and multi-methodological. Successful proposals describe research that advances scientific theory and understanding of the connections between law or legal processes and human behavior. Social scientific studies of law often approach law as dynamic, made in multiple arenas, with the participation of multiple actors. Scholars study mobilization, the creation and implementation of law, and the meanings of rules or laws to both individuals and institutions. The program considers proposals that examine historical, social, cultural and policy-related questions that arise concerning law, and invites proposals relying upon

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both qualitative and quantitative methods. The program also considers and funds proposals from many different disciplines, including anthropology, communication, criminology, economics, legal scholarship, political science, public policy, psychology, and sociology. The sites for the study of law are multiple and may include appellate and trial courts; domestic and international regulatory offices; federal, state, and local law enforcement; and the variety of settings in which organizations deploy law. Proposals are welcome that address legal processes that extend beyond any single nation, as well as about how local and national legal institutions, systems, and cultures engage transnational or international phenomena. **NSF 12-507**

Fields of study include many disciplines, and often address problems including though not limited to:

1. Crime, Violence and Punishment
2. Economic Issues
3. Governance
4. Legal Decisionmaking
5. Legal Mobilization and Conceptions of Justice
6. Litigation and the Legal Profession

LSS provides the following modes of support:

1. Standard Research Grants and Grants for Collaborative Research
2. Doctoral Dissertation Research Improvement Grants
3. Interdisciplinary Postdoctoral Fellowships
4. Workshop and Conference Proposals

- URL: <http://www.nsf.gov/pubs/2012/nsf12507/nsf12507.htm>

STUDENTS

Selected Professions Fellowships

American Association of University Women (AAUW)

Due Date: 1/10/2014

Funding (\$5,000 - 18,000) is for women to pursue a full-time course of study in a master's or professional degree program in which women's participation traditionally has been low, such as (architecture, (M. Arch), computer/informational sciences (M.S.), engineering (M.E., M.S.), and mathematics/statistics (M.S.).

- URL: <http://www.aauw.org/what-we-do/educational-funding-and-awards/selected-professions-fellowships/>