

Funding Bulletin

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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.

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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/>

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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 six open limited submission competitions:

(1) IUSE/Professional Formation of Engineers: Revolutionizing Engineering Departments (RED) *National Science Foundation (NSF)*

Due Date: Internal 9/29/2014; Letters of Intent 10/28/2014; Full Proposal 11/26/2014

The NSF Engineering (ENG) Directorate is launching a multi-year initiative, the *Professional Formation of Engineers*, to create and support an innovative and inclusive engineering profession for the 21st Century. Professional Formation of Engineers (PFE) refers to the formal and informal processes and value systems by which people become engineers. It also includes the ethical responsibility of practicing engineers to sustain and grow the profession. The engineering profession must be responsive to national priorities, grand challenges, and dynamic workforce needs; it must be equally open and accessible to all. In FY 2015 the PFE initiative in ENG is launching a pilot program aligned with the IUSE framework: *Revolutionizing Engineering Departments (herein referred to as RED)*, in partnership with the Directorates for Computer and Information Science and Engineering (CISE) and Education and Human Resources (EHR). This funding opportunity enables engineering departments to lead the nation by successfully achieving significant sustainable changes necessary to overcome long-standing issues in their undergraduate programs and educate inclusive communities of engineering students prepared to solve 21st century challenges. Computer science departments, whether administratively located in or outside an engineering program, are included in RED, as they share the same challenges as traditional engineering departments. (Note: "Engineering departments" in this solicitation will refer to engineering and computer science departments.) Even as demographic and regional socio-economic factors affect departments in unique ways, there are certain tenets of sustainable change that are common across institutions. For instance, the development and engagement of the entire faculty within a department are paramount to the process, and they must be incentivized. Departmental cultural barriers to inclusion of students *and* faculty from different backgrounds must be identified and addressed. Finally, coherent technical and professional threads must be developed and woven across the four years, especially (1) in the core technical courses of the middle two years, (2) in internship opportunities in the private and public sectors, and (3) in research opportunities with faculty. These and other threads aim to ensure that students develop deep knowledge in their discipline more effectively and meaningfully, while at the same time, aim to build their capacities for 21st Century and "T-shaped" professional skills, including design, leadership, communication, understanding historical and contemporary social contexts, lifelong learning,

creativity, entrepreneurship, and teamwork. It is hoped that, over time, the awardees of this program will create knowledge concerning sustainable change in engineering and computer science education that can be scaled and adopted nationally across a wide variety of academic institutions. **An organization is allowed up to two submissions per competition.**

Note: Because it addresses undergraduate engineering education, the Revolutionizing Engineering Departments (RED) funding opportunity is offered in alignment with the NSF-wide undergraduate STEM education initiative, *Improving Undergraduate STEM Education (IUSE)*. More information about IUSE can be found in the Introduction of this solicitation. **NSF 14-602**

- URL: <http://www.nsf.gov/pubs/2014/nsf14602/nsf14602.htm>

(2) Greenwall Faculty Scholars

Greenwall Foundation

Due Date: Internal 10/3/2014; Letters of Intent 11/3/2014

Applicants must be junior faculty members holding at least a 60% appointment in a tenure series at a university or non-profit research institute in the U.S. Priority will be given to applicants who have not yet been considered for tenure, who have not received a comparable career development award, and whose work will have an impact on public policy, biomedical research, or clinical practice. Faculty Scholars will be selected on the basis of their achievements, the strength of their research project, their commitment to the field of bioethics, and support from their home institution. While the amount and quality of an applicant's research in bioethics will count favorably towards his/her application, outstanding candidates with less direct experience in bioethics will also be considered. Within this group, priority will be given to applicants whose research addresses innovative and emerging topics. Lower priority will be given to applicants who are primarily carrying out institutional change, educational reform, or theoretical bioethics research. **Please note: Up to two applicants from a university will be considered in each application cycle.** Institutions are requested to have an internal screening and selection process. No more than one award per institution will be made in each Faculty Scholars grant cycle. The unit of award will be the overseeing university, thus if a university with a law school, medical school, several teaching hospitals, and a faculty of arts and sciences, nominates two applicants in a cycle, only one may be chosen.

- URL: <http://greenwall.org/how-to-apply.php>



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(3) Natural Hazards Engineering Research Infrastructure 2015 – 2019

National Science Foundation (NSF)

Due Date: Internal 10/3/2014; Letters of Intent 11/6/2014; Full Proposals 12/3/2014

This solicitation will establish operations of the Natural Hazards Engineering Research Infrastructure (NHERI) for 2015 - 2019. NHERI is the next generation of National Science Foundation (NSF) support for a natural hazards engineering research large facility, replacing the George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES). NEES was established by NSF as a distributed, multi-user, national research infrastructure for earthquake engineering through a facility construction phase during 2000 - 2004, followed by operations of this infrastructure to support research, innovation, and education activities from October 2004 through September 2014. During 2015 - 2019, NHERI will be a distributed, multi-user, national facility to provide the natural hazards engineering community with access to research infrastructure (earthquake and wind engineering experimental facilities, cyberinfrastructure, computational modeling and simulation tools, and research data), coupled with education and community outreach activities. NHERI will enable research and educational advances that can contribute knowledge and innovation for the nation's civil infrastructure and communities to prevent natural hazard events from becoming societal disasters. NHERI will consist of the following components, established through up to ten individual awards:

- Network Coordination Office (one award),
- Cyberinfrastructure (one award),
- Computational Modeling and Simulation Center (one award), and
- Experimental Facilities for earthquake engineering and wind engineering research (up to seven awards, including one award for a Post-Disaster, Rapid Response Research Facility).

Up to ten cooperative agreements are anticipated to commence in 2015, each with a five-year award duration. Awardees will not conduct research under their awards. The primary research enabled by NHERI will be conducted by investigators supported through separate NSF awards. The Awardees and the natural hazards engineering community will work together, through Governance and Awardee activities, to establish a shared vision for NHERI, set natural hazards engineering research and education agendas and priorities, and make NHERI a value-added and productive research infrastructure. **NSF 14-605**

An academic institution may submit up to two proposals as the lead institution, but may not submit more than one proposal as the lead institution in any one of the following four proposal categories:

1. Network Coordination Office (NCO),
2. Cyberinfrastructure (CI),

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3. Computational Modeling and Simulation Center (SimCenter), and
4. Experimental Facility (EF), which includes the Post-Disaster, Rapid Response Research (RAPID) Facility.

- URL: <http://www.nsf.gov/pubs/2014/nsf14605/nsf14605.htm>

(4) Nominations for Pathogenesis of Infectious Disease Program

Burroughs Wellcome Fund

Due Date: Internal 10/3/2014; Applications 11/3/2014

The [Burroughs Wellcome Fund](#) is accepting nominations of projects that investigate the pathogenesis in infectious disease, with a focus on the interplay between human and microbial biology. Through its Investigators in the Pathogenesis of Infectious Disease grant program, the fund will award grants of up to \$500,000 over five years to give recipients the freedom and flexibility to pursue new avenues of inquiry and higher-risk research projects that have the potential to significantly advance the biochemical, pharmacological, immunological, and molecular biological understanding of how microbes and the human body interact. The program is designed to support research that sheds light on the fundamentals that affect the outcomes of this interaction, including the ways in which colonization, infection, commensalism, and other relationships play out at various levels, from the molecular to the systemic. To be eligible, nominees must be citizens or permanent residents of the United States or Canada at the time of application and hold an M.D., D.V.M., or Ph.D. degree. BWF particularly encourages human health-relevant nominations from veterinary scientists. In addition, nominees must have an established record of independent research and hold a tenure-track position as an assistant professor or equivalent at the time the application is submitted. **Institutions in the U.S. or Canada — including medical schools, graduate schools, and affiliated hospitals and research institutes — may nominate up to two candidates.** To encourage applications from veterinarians, institutions that nominate a researcher who holds the D.V.M. will be allowed three nominations. Institutions may have a single additional nomination for each category if they nominate a researcher working in pathogenic helminths, mycology, or reproductive science. BWF staff will hold two conference calls — at 2:00 p.m. EST on both September 16 and October 14, 2014 — for applicants relatively new to preparing faculty-level grants and for interested administrators. Visit the BWF website for complete program guidelines and nomination instructions.

- URL: <http://www.bwfund.org/grant-programs/infectious-diseases-0>

(5) Theory Institute in Atomic, Molecular and Optical Physics

National Science Foundation (NSF)

Due Date: Internal 10/10/2014; Full Proposal 12/8/2014

The Theory Institute in Atomic, Molecular and Optical (AMO) Physics will be a center to advance theoretical AMO physics and lead in motivating and explaining new experimental work in AMO and other areas of science. The goal of this institute is to foster cutting edge research, serve as a focus for theoretical AMO science, and to enhance the visibility of the field. It will bring together diverse groups both inside and outside of the AMO community to promote connections leading to frontier science, while fostering a vibrant environment at all levels from student to senior investigator. Funding for the institute is designed to foster major breakthroughs at the intellectual frontier of AMO physics by providing resources beyond those available to individual investigators or small groups, in an environment in which the collective efforts of the larger group can be shown to be seminal to promoting significant progress in the science and the education of students. Although interdisciplinary aspects may be included, the bulk of the effort must fall within theoretical atomic, molecular, and optical physics within the purview of the Division of Physics. The successful institute will demonstrate: (1) the potential to advance AMO science; (2) creative, substantive activities aimed at enhancing education, diversity, and public outreach; (3) potential for broader impacts, e.g., impacts on other field(s) and benefits to society; and (4) a synergy or value-added rationale that justifies a center- or institute-like approach. **No more than one proposal may be submitted by any one institution. NSF 14-570**

- URL: <http://www.nsf.gov/pubs/2014/nsf14570/nsf14570.htm>

(6) Biomedical/Biobehavioral Research Administration Development (BRAD) Award (G11)

National Institutes of Health (NIH)

Due Dates: Internal 10/10/2014; Application 11/28/2014, 8/19/2015

The purpose of this Funding Opportunity Announcement (FOA) is to invite applications that propose to establish Offices of Research and Sponsored Programs (ORSPs) or enhance the services of existing ORSPs or similar entities at domestic and international institutions of higher learning. Domestic program priorities include emerging research institutions and primarily undergraduate institutions, including women's colleges, that have a racial and ethnically diverse student enrollment and that meet the eligibility requirement of the NIH [Academic Research Enhancement Award \(AREA\) program](#). International program priorities include institutions of higher education in sub-Saharan Africa, India, and low and middle income countries in the Caribbean and South America that meet the eligibility requirements. **Only one application per institution is allowed. PAR-14-333**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-14-333.html>

INTERNAL OPPORTUNITIES

Multidisciplinary Research Project Awards (MURPA)

Wichita State University

Due Date: 10/3/2014

Applications for Multidisciplinary Research Project Awards (MURPA) are due to the Office of Research and Technology Transfer by Oct. 3 at 5:00 p.m. Multidisciplinary Research Projects are projects that involve two or more investigators from different disciplines that focus different perspectives and capabilities on complex problems that intersect established areas of study. They are intended as seed money to develop pilot data for proposals to be submitted to governmental agencies, foundations or industries. 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/>

University Research/Creative Projects (URCA)

Wichita State University

Due Date: 10/3/2014

Applications for Round 2 of the University Research/Creative Projects (URCA) are due to the Office of Research and Technology Transfer by Oct. 3 at 5:00p.m. URCA's are to retool or reestablish productive research/creative projects agenda. In areas where external funding is available, the URCA may be used as seed money to develop pilot data. Areas where access to external sources is limited may receive special consideration. Grants may be for up to \$4,500 awarded in two separate competitions: New - tenure-eligible faculty in their first or second year of probation to initiate research/creative projects, and Established - tenured faculty or probationary faculty in their 3rd (or more) year of probation to retool or re-establish productive research/creative agenda. 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

Environmental Sustainability

National Science Foundation (NSF)

Due Date: 11/5/2014

The goal of the **Environmental Sustainability** program is to promote sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems. These systems provide ecological services vital for human survival. Research efforts supported by the program typically consider long time horizons and may incorporate contributions from the social sciences and ethics. The program supports engineering research that seeks to balance society's need to provide ecological protection and maintain stable economic conditions. There are four principal general research areas that are supported:

- **Industrial Ecology:** Topics of interest in Industrial Ecology include advancements in modeling such as life cycle assessment, materials flow analysis, input/output economic models, and novel metrics for measuring sustainable systems. Innovations in industrial ecology are encouraged.
- **Green Engineering:** Research is encouraged to advance the sustainability of manufacturing processes, green buildings, and infrastructure. Many programs in the Engineering Directorate support research in environmentally benign manufacturing or chemical processes. The Environmental Sustainability program supports research that would affect more than one chemical or manufacturing process or that takes a systems or holistic approach to green engineering for infrastructure or green buildings. Improvements in distribution and collection systems that will advance smart growth strategies and ameliorate effects of growth are research areas that are supported by Environmental Sustainability. Innovations in management of storm water, recycling and reuse of drinking water, and other green engineering techniques to support sustainability may also be fruitful areas for research.
- **Ecological Engineering:** Topics should focus on the engineering aspects of restoring ecological function to natural systems. Engineering research in enhancement of natural capital to foster sustainable development is encouraged.
- **Earth Systems Engineering:** Earth Systems Engineering considers aspects of large scale engineering research that involve mitigation of greenhouse gas emissions, adaptation to climate change, and other global scale concerns.

All proposed research should be driven by engineering principles, and be presented explicitly in an environmental sustainability context. Proposals should include involvement in engineering research of at least one graduate student, as well as undergraduates. Incorporation of aspects of social,

behavioral, and economic sciences is welcomed. Innovative proposals outside the scope of the four core areas mentioned above may be considered. However, prior to submission, it is recommended that the PI contact the Program Director to avoid the possibility of the proposal being returned without review. **PD 14-7643**

- URL: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027

Serious STEM Games for Pre-College and Informal Science Education Audiences (SBIR & STTR)
National Institutes of Health (NIH); U.S. Department of Health and Human Services (HHS)
Due Date: 11/12/2014, 5/12/2015

The purpose of these Funding Opportunity Announcements (FOA) is to provide opportunities for eligible small business concerns (SBCs) to submit STTR grant applications to develop serious Science, Technology, Engineering and Mathematics (STEM) games with a focus on biology that addresses health and medicine questions for: (1) pre-kindergarten to grade 12 (P-12) students and pre- and in-service teachers ("Teachers") or (2) Informal Science Education (ISE) audiences. Serious games are defined as the use of gaming technology to train, educate, and encourage behavioral changes in a virtual world format where progressive learning, feedback on success and user control are combined into an interactive and engaging experience. It is anticipated that the SBIR and STTR FOAs will facilitate the translation of new or existing health and medicine-based, P-12 STEM curricula and museum exhibits into educational games that will provide a hands-on, inquiry-based and learning-by-doing experience for students, teachers and the community.

SBIR: PAR-14-325 (R43/44)

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-14-325.html>

STTR: PAR-14-326 (R41/42)

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-14-326.html>

ARTS & HUMANITIES

Conservation Assessment Program (CAP)

Institute of Museum and Library Services (IMLS)

Due Date: 12/1/2014

The Conservation Assessment Program (CAP) is supported through a cooperative agreement between IMLS and Heritage Preservation. Through CAP, professional conservators identify conservation priorities by spending two days at your location and three days writing a report about your museum's collection, environmental conditions, and site. The report can help your museum develop strategies for improving collections care and provide a tool for long-range planning and fund-raising.

- URL: <http://www.ims.gov/applicants/detail.aspx?GrantId=6>

Museums for America

Institute of Museum and Library Services (IMLS)

Due Date: 12/1/2014

The Museums for America (MFA) program supports projects that strengthen the ability of an individual museum to serve its public. MFA grants support activities that strengthen museums as active resources for lifelong learning, as important institutions in the establishment of livable communities, and as good stewards of the nation's collections. MFA grants can fund both new and ongoing museum activities and programs. Examples include planning, managing and conserving collections, improving public access, training, conducting programmatic research, school and public programming, producing exhibitions, and integrating new or upgraded technologies into your operations. **There are three categories within the MFA program:**

Learning Experiences: IMLS places the learner at the center and supports engaging experiences in museums that prepare people to be full participants in their local communities and our global society. Projects should provide high-quality, inclusive, accessible, and audience-focused learning opportunities; provide access to collections, information, and educational resources; encourage the use of technologies; and develop programs for specific segments of the public.

Community Anchors: IMLS promotes museums as strong community anchors that enhance civic engagement, cultural opportunities, and economic vitality. Projects should harness a museum's expertise, knowledge, physical space, technology, or other resources in order to address a specific need originating in the community. Museums may undertake the project alone or in partnership with one or more community organizations.

Collections Stewardship: IMLS supports exemplary stewardship of museum collections and promotes the use of technology to facilitate discovery of knowledge and cultural heritage. Projects should address high priority collections care or conservation issues.

Note to applicants: The FY2014 Museums for America grant opportunity encompasses those types of proposals that were previously solicited through the Conservation Project Support program. IMLS maintains its commitment to collections care, conservation, and preservation, and encourages step-by-step, progressive approach to conservation.

- URL: <http://www.imls.gov/applicants/detail.aspx?GrantId=11>

National Leadership Grants for Museums (NLG-M)

Institute of Museum and Library Services (IMLS)

Due Date: 12/1/2014

National Leadership Grants (NLG) for Museums support projects that address critical needs of the museum field and that have the potential to advance practice in the profession so that museums can improve services for the American public. Successful proposals will generate results such as models, new tools, research findings, services, practices, and/or alliances that can be widely used, adapted, scaled, or replicated to extend and leverage the benefits of federal investment. Distinguishing features of all National Leadership Grants for Museums projects are:

- *Broad Impact:* Your project should show the potential for far-reaching impact beyond your institution and influencing practice across one or more disciplines or specific fields within the museum profession.
- *In-depth Knowledge:* Your proposal should reflect a thorough understanding of current practice and knowledge about the subject matter and an awareness and support of current strategic initiatives and agendas in the field.
- *Innovative Approach:* Your proposal should employ novel approaches or techniques new to your project area to strengthen and improve museum services to benefit the audiences and communities being served.
- *Collaborative Process:* Your project should incorporate audience, stakeholders and/or other partners to demonstrate broad need, field-wide buy-in and input, access to appropriate expertise, and sharing of resources.
- *Shared Results:* Your project should generate results such as models, new tools, research findings, services, practices, and/or alliances that can be widely used, adapted, scaled, or replicated to extend and leverage the benefits of federal investment.

Your application should align with one of the following three funding categories:

Learning Experiences: IMLS places the learner at the center and supports engaging experiences in museums that prepare people to be full participants in their local communities and our global society. Projects should advance the museum field's ability to provide high-quality, inclusive, accessible and audience-focused learning opportunities; provide access to collections, information, and educational resources; encourage the use of technologies; and develop programs for specific segments of the public.

Community Anchors: IMLS promotes museums as strong community anchors that enhance civic engagement, cultural opportunities, and economic vitality. Projects should advance the museum field's ability to harness the expertise, knowledge, space, and/or other resources of museums in order to address specific community needs.

Collections Stewardship: IMLS supports exemplary stewardship of museum collections and promotes the use of technology to facilitate discovery of knowledge and cultural heritage. Projects should advance the museum field's ability to identify new solutions that address high priority and widespread collections care or conservation issues.

- URL: <http://www.ims.gov/applicants/detail.aspx?GrantId=22>

Sparks! Ignition Grants for Museums

Institute of Museum and Library Services (IMLS)

Due Date: 12/1/2014

The Sparks! Ignition Grants for Museums program is a special funding opportunity within the IMLS National Leadership Grants for Museums program, which supports projects that address problems, challenges, or needs of broad relevance to museums. These small grants encourage museums 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 museum field and the potential for improvement in the ways museums serve their communities. To maximize the public benefit from federal investments in these grants, the Sparks! Ignition Grants for Museums program will fund only projects with the following characteristics:



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- *Broad Impact:* Your project should show the potential for far-reaching impact beyond your institution, and influence practice across one or more disciplines or specific fields within the museum profession.
- *In-depth Knowledge:* Your project should reflect a thorough understanding of current practice and knowledge about the subject matter and an awareness and support of current strategic initiatives and agendas in the field.
- *Innovative Approach:* Your project should employ new approaches to strengthen and improve services to benefit the audiences and communities being served.
- *Shared Results:* Your project should generate results that can be widely used, adapted, scaled, or replicated to leverage the benefits of federal investment. Grantees are required to submit a short white paper, or create their own dissemination tool, to be publicly posted and shared with the field.
- **URL:** <http://www.ims.gov/applicants/detail.aspx?GrantId=23>

BUSINESS

Research Support Grants

Marketing Science Institute (MSI)

Due Date: Proposals accepted on a continual basis

MSI funds high-quality research that deals with topics of importance to member companies. Results of MSI-supported studies may appear first as MSI working papers and/or as conference presentations, and subsequently as articles in refereed journals, scholarly monographs, or books. MSI supports research with the potential for application by managers as well as more basic or exploratory work. No one approach or methodology is favored over another as long as the form is appropriate to the objectives of the research. Studies may be conceptual or empirical and may involve literature reviews, comparative studies, field or laboratory experiments, model building, or theory development. We encourage cross-disciplinary work building on theories, research results, and methods from disciplines of relevance to marketing. MSI and its member companies strongly endorse using actual consumers, customers, and executives rather than student subjects in research projects. Central to MSI's research program is the belief that academics and practitioners can mutually benefit from interacting throughout the process of planning, conducting, and reporting research. Research proposals and reports may undergo review by representatives from corporate sponsors as well as academic experts, and some projects receive business cooperation. When projects are completed, researchers often present their results at MSI meetings, where they can discuss their work with MSI member company executives and other academics. Academic

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researchers (faculty members, or doctoral students working collaboratively with faculty advisors) can apply for financial and/or nonfinancial support for research projects. As detailed below, financial support is given in the form of standard grants or competition prizes and awards. Nonfinancial support can take the form of access to data, contacts with executives, or access to interview or study sites within firms.

Standard Grants: Most MSI grants are made to cover researchers' out-of-pocket costs for data collection, respondent fees, research assistants, and similar expenses. Generally, these grants are in the \$3,000 to \$20,000 range. Note that MSI does not provide salary replacement for the principal researcher(s), funds for the purchase of equipment or software, university overhead, tuition, or funds for travel to non-MSI conferences. Requests for larger sums may sometimes be funded, typically with additional financial support from corporations. These larger projects usually involve substantial interaction between the researchers and the sponsoring corporations. The process of raising corporate support may take several months and often involves meeting with potential sponsors. MSI has also, from time to time, cooperated with other associations or institutes to support large-scale projects. Nonfinancial Support MSI can on occasion provide useful nonfinancial support to participating researchers. Examples include: (1) access to data, (2) advice and ideas from member company managers, and (3) in exceptionally strong cases, assistance in arranging for interview or study sites inside major corporations. The exact nature of this support varies widely from project to project and requires that the research provides clear benefits to member companies.

- URL: <http://www.msi.org/research/obtain-research-support/>

ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

Aircraft Drag Reduction Program

Air Force Research Lab (AFRL) - Department of Defense (DoD)

Due Date: 10/27/2014

The objective of the Aircraft Drag Reduction Program will be to mature and transition technologies to reduce the fuel burn of legacy and future fleet aircraft by employing engineered surfaces, materials, and coatings (ESMC). Aircraft drag reduction by means of ESMC may address any element of aircraft drag. This Research and Development (R&D) may include, aircraft drag reduction technologies, especially turbulent boundary layer skin friction drag reduction; evaluating the performance (drag reduction) of the technologies – tests ranging from laboratory testing of ESMC coupons, to wind

tunnel testing (small- to large-scale), to flight testing of ESMC technologies; and maturing and transitioning technologies to aircraft, to include qualification testing of new coatings, materials, or surfaces. **BAA-RQKPC-2014-0004**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=264730>

Arthur C. Cope Scholar Awards

American Chemical Society (ACS)

Due Date: 11/1/2014

The award consists of \$5,000, a certificate, and a \$40,000 unrestricted research grant to be assigned by the recipient to any university or nonprofit institution. The recipient is required to deliver an awards address at the Arthur C. Cope Symposium. Up to \$2,500 for travel expenses to the fall national meeting will be reimbursed. The recipient may also be invited to make a presentation at an ACS regional meeting during the year after the Cope Award and Cope Scholar Award Symposium. In support of this presentation, the ACS Division of Organic Chemistry will provide a \$500 honorarium and reasonable travel expenses to the regional meeting. Ten Arthur C. Cope Scholars will be named annually in three categories: two who have less than ten years of experience since their terminal degree will receive the Arthur C. Cope Early Career Scholars Award; four who have 10 to 25 years of experience since their terminal degree will receive the Arthur C. Cope Mid Career Scholars Award; and four who have 25 plus years of experience since their terminal degree will receive the Arthur C. Cope Late Career Scholars Award. No individual may receive a second Arthur C. Cope Scholar Award. Recipients of an Arthur C. Cope Award are ineligible to be named an Arthur C. Cope Scholar.

- URL: <http://www.acs.org/content/acs/en/funding-and-awards/awards/national/bytopic/arthur-c-cope-scholar-awards.html>

Award for Research at an Undergraduate Institution

American Chemical Society (ACS)

Due Date: 11/1/2014

The award will honor a chemistry faculty member whose research in an undergraduate setting has achieved wide recognition and contributed significantly to chemistry and to the professional development of undergraduate students. The nominee's department may offer work leading to the master's degree but cannot have a doctoral program. This award recognizes fundamental research that constitutes advances in science as evidenced by refereed publications with undergraduate coauthors in leading scientific research journals, external research grant support, and the subsequent professional development of students who have participated in the research program. The award will

be given for significant work over a long period of time rather than for a specific, limited project. A nominee must be a tenured faculty member of a predominantly undergraduate institution.

- URL: <http://www.acs.org/content/acs/en/funding-and-awards/awards/national/bytopic/acs-award-for-research-at-an-undergraduate-institution.html>

Enriched Doctoral Training in the Mathematical Sciences (EDT)

National Science Foundation (NSF)

Due Date: 11/12/2014, 7/8/2015

The long-range goal of the Enriched Doctoral Training in the Mathematical Sciences (EDT) program is to strengthen the nation's scientific competitiveness by increasing the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences and in other professions in which expertise in the mathematical sciences plays an increasingly important role. The EDT program will achieve this by supporting efforts to enrich research training in the mathematical sciences at the doctoral level by preparing Ph.D. students to recognize and find solutions to mathematical challenges arising in other fields and in areas outside today's academic setting. Graduate research training activities supported by EDT will prepare participants for a broader range of mathematical opportunities and career paths than has been traditional in U.S. mathematics doctoral training. **NSF 14-589**

- URL: http://www.nsf.gov/pubs/2014/nsf14589/nsf14589.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

HEALTH, LIFE & EARTH SCIENCES

Division of Molecular and Cellular Biosciences: Investigator-initiated Research Projects (MCB)

National Science Foundation (NSF)

Due Date: 11/15/2014

The Division of Molecular and Cellular Biosciences (MCB) supports quantitative, predictive, and theory-driven fundamental research and related activities designed to promote understanding of

complex living systems at the molecular, subcellular, and cellular levels. MCB is soliciting proposals for hypothesis-driven and discovery research and related activities in four core clusters:

- Molecular Biophysics
- Cellular Dynamics and Function
- Genetic Mechanisms
- Systems and Synthetic Biology

MCB gives high priority to research projects that use theory, methods, and technologies from physical sciences, mathematics, computational sciences, and engineering to address major biological questions. Research supported by MCB uses a range of experimental approaches--including *in vivo*, *in vitro* and *in silico* strategies--and a broad spectrum of model and non-model organisms, especially microbes and plants. Typical research supported by MCB integrates theory and experimentation. Projects that address the emerging areas of multi-scale integration, molecular and cellular evolution, quantitative prediction of phenome from genomic information, and development of methods and resources are particularly welcome. Highest funding priority is given to applications that have outstanding intellectual merit and strong broader impacts. Proposals that include research motivated by relevance to human health or address the molecular basis of human diseases and treatment are not appropriate for the Division and will be returned without review. **NSF 13-510**

- URL: <http://www.nsf.gov/pubs/2013/nsf13510/nsf13510.htm>

Innovation in Regulatory Science

Burroughs Wellcome Fund

Due Date: Pre-Proposals 11/18/2014; Full Applications 4/1/2015

BWF's Innovation in Regulatory Science Awards provide up to \$500,000 over five years to academic investigators developing new methodologies or innovative approaches in regulatory science that will ultimately inform the regulatory decisions the Food and Drug Administration (FDA) and others make. These awards are open to U.S. and Canadian citizens or permanent residents who have a faculty or adjunct faculty appointment at a North American degree-granting institution. Awards are made to degree-granting institutions in the U.S. or Canada on behalf of the awardee. The application process consists of two phases: a preproposal followed by a full proposal invitation. Preproposal applicants selected by the Advisory Committee deemed to meet the goals of this initiative will be invited to submit full proposals. The process of translating biomedical discoveries into new therapies has become increasingly complex in light of evolving science and technology, and requires that the science of regulation keep up with the advances in biomedical science and technology. For example, existing animal models of human disease are often poor predictors of efficacy of new therapeutic approaches in humans. As new technologies produce new types of preclinical models, innovation is

needed in the evaluation of these models to justify movement into clinical studies. Over the last decade, numerous reports [1] have documented the importance of this area of research to the future of the biomedical enterprise, however it remains inadequately supported. Regulatory science has been defined as the “development and use of new tools, standards, and approaches to more efficiently develop products and to more effectively evaluate product safety, efficacy, and quality”. [2] It has become the centerpiece of the Food and Drug Administration’s (FDA) strategy for fostering innovation, and the academic and foundation communities have been called to take an active role in building this emerging field. This initiative of the Burroughs Wellcome Fund is focused on providing support for academic researchers developing new methodologies or innovative approaches in regulatory science that will ultimately inform the regulatory decisions FDA and others make. This would necessarily draw upon the talents of individuals trained in mathematics, computer science, applied physics, medicine, engineering, toxicology, epidemiology, biostatistics, and systems pharmacology, to name a few.

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

Opportunities for Collaborative Research at the NIH Clinical Center

National Institutes of Health (NIH)

Due Dates: Pre-Applications 11/20/2014; Applications 3/20/2015

The goal of this program is to support collaborative translational research projects aligned with NIH efforts to enhance the translation of basic biological discoveries into clinical applications that improve health. It encourages high quality science demonstrating the potential to result in understanding an important disease process or lead to new therapeutic interventions, diagnostics, or prevention strategies within the research interests and priorities of the participating NIH Institutes/Centers (ICs). Specifically, the program seeks to broaden and strengthen translational research collaborations between basic and clinical researchers both within and outside NIH to accelerate and enhance translational science by promoting partnerships between NIH intramural investigators (e.g., those conducting research within the labs and clinics of the NIH) and extramural investigators (e.g., those conducting research in labs outside the NIH), and by providing support for extramural investigators to take advantage of the unique research opportunities available at the NIH Clinical Center by conducting research projects in collaboration with NIH intramural investigators. In order to be eligible for this program, the application must include at least one intramural scientist as Program Director/Principal Investigator or collaborator, and at least some of the research must be conducted at the NIH Clinical Center. Through this collaboration, external researchers may gain access to the NIH Clinical Center and leverage the diverse Clinical Center resources, expertise, and infrastructure available to test promising laboratory- and animal-based discoveries with potential for advancing disease diagnosis,

treatment and prevention. The special environment of the Clinical Center can support studies that may not be readily supported elsewhere. The X02 pre-application is the recommended (not required) first step in the application process for this FOA. Potential applicants should read both FOAs. Investigators whose X02 pre-applications are meritorious, can be supported by the resources of the NIH Clinical Center, and align with the research missions of the participating NIH ICs, will be notified of the opportunity to submit a U01 application

Pre-Application FON: Par-13-357 (X02)

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-13-357.html>

Application FON: PAR-13-358 (U01)

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-13-358.html>

MULTIPLE DISCIPLINES

Ecology and Evolution of Infectious Diseases (EEID)

National Science Foundation (NSF)

Due Date: 11/19/2014

The Ecology and Evolution of Infectious Diseases program supports research on the ecological, evolutionary, and socio-ecological principles and processes that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of transmission among humans, non-human animals, and/or plants. This includes, for example, the spread of pathogens; the influence of environmental factors such as climate; the population dynamics and genetics of reservoir species or hosts; the cultural, social, behavioral, and economic dimensions of disease transmission. Research may be on zoonotic, environmentally-borne, vector-borne, or enteric diseases of either terrestrial or freshwater systems and organisms, including diseases of animals and plants, at any scale from specific pathogens to inclusive environmental systems.

Proposals for research on disease systems of public health concern to developing countries are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, including for example, modelers, bioinformaticians, genomics researchers, social scientists, economists, epidemiologists, entomologists, parasitologists, microbiologists, bacteriologists, virologists, pathologists or veterinarians, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases. **NSF 14-592**

- [URL: http://www.nsf.gov/pubs/2014/nsf14592/nsf14592.htm?WT.mc_id=USNSF_25&WT.mc_ev=click](http://www.nsf.gov/pubs/2014/nsf14592/nsf14592.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

SOCIAL & BEHAVIORAL SCIENCES

Sabbatical Grants Program

Louisville Institute

Due Date: 11/1/2014

The Sabbatical Grants for Researchers program at the [Louisville Institute](http://www.louisville-institute.org) aims to identify and support ecclesiastically engaged academics and intellectually astute pastoral and religious leaders whose scholarly research work can contribute to the vitality of Christianity in North America. The program is designed to bring pastors and academics together and help them share their insights into the life of churches. The program supports year-long sabbatical research and writing projects that will advance religious and theological scholarship in ways that also address practical issues concerning Christian faith and life, pastoral leadership, and/or religious institutions. Ordinarily applicants will be fully employed at accredited academic institutions and will be eligible for up to a full academic year of leave from teaching. Pastoral applicants are also encouraged to apply. Proposed projects may employ a variety of methodological perspectives, including but not limited to historical, systematic, and practical theology; the social sciences; history; ethics; or biblical studies. Projects also may be interdisciplinary but must demonstrate relevance to improving the life of churches in North America. Louisville Institute grant programs are open to both academic and pastoral leaders. Applicants must have earned the terminal degree in their chosen vocation (e.g., M.Div., Ph.D., Th.D.). For pastors, this is typically the Master of Divinity degree; for academics it is usually the Ph.D. or Th.D. Generally, applicants should be released from all professional duties during the grant period. Grants of up to \$40,000 are available. Applicants may not submit applications to more than one Louisville Institute grant program within the same grant year. Visit the Louisville Institute Web site for complete program guidelines and application instructions.

- [URL: http://www.louisville-institute.org/Grants/programs/sqfrdetail.aspx](http://www.louisville-institute.org/Grants/programs/sqfrdetail.aspx)



WICHITA STATE
UNIVERSITY

RESEARCH AND
TECHNOLOGY TRANSFER

Science of Hope and Optimism Initiative

International Sociological Association

Due Date: Letters of Intent 11/1/2014

The [International Sociological Association](http://hopeoptimism.com/pages/funding-initiatives/the-science-of-hope-and-optimism) is seeking applications for a \$1.4 million initiative focused on generating new research in the social sciences on the topics of hope and optimism. Through its Science of Hope and Optimism Funding Initiative program, the association will award two-year grants of up to \$250,000 for research projects that use a variety of methods to explore the nature of hope and optimism. Priority will be given to projects in cognitive, developmental, personality, health, and social psychology, as well as sociology. Interdisciplinary teams that include members from cognate areas — e.g., cognitive science, anthropology, nursing, and biology — are encouraged. Visit the ISA website for complete program guidelines and application instructions.

- URL: <http://hopeoptimism.com/pages/funding-initiatives/the-science-of-hope-and-optimism>

Community Partners in Mental Health Research Award (CPMHRA)

U.S. Department of Defense (DoD); Congressionally Directed Medical Research Programs (CDMRP)

Due Date: Pre-Applications 11/6/2014; Invited Applications 1/23/2015

The intent of the FY14 PH/TBIRP Community Partners in Mental Health Research Award (CPMHRA) is to address Section 706 by supporting research on the causes, development, and innovative treatment of mental health, substance use disorders, TBI, and suicide prevention in members of the National Guard and Reserves, their family members, and their caregivers. ***The focus of the CPMHRA is on research only; proposed projects should NOT include other treatment, education, and outreach efforts.*** Research projects should be carried out by or in collaboration with community partners. Community partners as referenced in Section 706 are private non-profit organizations or institutions that engage in (1) research on the causes, development, and innovative treatment; (2) identifying and disseminating evidence-based treatments; and/or (3) outreach and education for mental health, substance use disorders, TBI, and suicide prevention in members of the National Guard and Reserves, their family members, and their caregivers. Research projects may focus on any phase of research from basic laboratory research through translational research, including preclinical studies in animal models and human subjects, as well as correlative studies associated with an existing clinical trial. Applied research that refines concepts and ideas into potential solutions with a view toward evaluating technical feasibility of behavioral and rehabilitation interventions, diagnostic and therapeutic techniques, clinical guidance, emerging approaches and technologies, promising new products, and/or pharmacologic agents is particularly encouraged. Preference will be given to those

studies that enhance or complement current DoD efforts and have high programmatic relevance.
W81XWH-14-PHTBIRP-CPMHRA

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=265968>

STUDENTS

Graduate Research Fellowship Program (GRFP)

National Science Foundation (NSF)

Due Dates: 10/29/2014 – 11/4/2014 (varies by directorate)

The purpose of the NSF Graduate Research Fellowship Program (GRFP) is to help ensure the vitality and diversity of the scientific and engineering workforce of the United States. The program recognizes and supports outstanding graduate students who are pursuing research-based master's and doctoral degrees in science and engineering. The GRFP provides three years of support for the graduate education of individuals who have demonstrated their potential for significant achievements in science and engineering. The program goals are 1) to select, recognize, and financially support individuals early in their careers with the demonstrated potential to be high achieving scientists and engineers, and 2) to broaden participation in science and engineering of underrepresented groups, including women, minorities, persons with disabilities, and veterans. GRFP is a critical program in NSF's overall strategy to develop the globally-engaged workforce necessary to ensure the Nation's leadership in advancing science and engineering research and innovation. The ranks of NSF Fellows include numerous individuals who have made transformative breakthrough discoveries in science and engineering, become leaders in their chosen careers, and been honored as Nobel laureates. **NSF 14-590**

- URL: http://www.nsf.gov/pubs/2014/nsf14590/nsf14590.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Pre- and Postdoctoral Training Awards

Autism Science Foundation (ASF)

Due Date: 11/14/2014

The [Autism Science Foundation](#) is inviting applications for its Pre- and Postdoctoral Training Awards from graduate students, medical students, and postdoctoral fellows interested in pursuing careers in basic and clinical research relevant to autism spectrum disorders. The proposed training must be

scientifically linked to autism and may be broadened to include training in a closely related area of scientific research. For training purposes, the foundation will consider all areas of related basic and clinical research, including human behavior across the lifespan (language, learning, behavior, communication, social function, motor skills and planning, epilepsy, sleep, repetitive disorders), neurobiology (anatomy, development, neuroimaging), pharmacology, neuropathology, genetics, epigenetics, genomics, epigenomics, immunology, molecular and cellular mechanisms, studies employing model organisms and systems, and studies of treatment and service delivery. The one-year awards include \$25,000 for predoctoral and medical students and \$35,000 for postdoctoral students. For complete program guidelines, information about previous recipients, application form, and instructions for the conference call, visit the ASF website.

- URL: <http://www.autismsciencefoundation.org/ApplyForaGrant.html>