WICHITA STATE UNIVERSITY
RESEARCH AND TECHNOLOGY TRANSFER

Funding Bulletin

October 21st, 2016 (Vol. 4, No. 2)

Funding Information

To receive funding information, please contact funding@wichita.edu.

NOTICE – Notification for the current Funding Bulletin is sent via email. To be added to the electronic mailing list, send an email message to: *funding@wichita.edu.* Leave the subject line blank. In the message area, type: *sub funding bulletin.* To unsubscribe, type: *unsub funding bulletin.*

The selected compilation of funding opportunities is provided by RTT's Pre-Award Services as a resource for Wichita State University Researchers. We encourage you to utilize the campus subscription to PIVOT to find funding opportunities specifically tailored to your research area based on keywords you provide. PIVOT is easy to use and offers other valuable services that are helpful to researchers. Access is available at: *http://pivot.cos.com/home/index* or you may contact *funding@wichita.edu* to have a custom search ran.

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

How to Apply

Proposal development requests should be sent to *proposals@wichita.edu.* Please click on the following link for information regarding proposal submission at WSU:

http://webs.wichita.edu/?u=WSURESEARCHADMIN&p=/Proposals/PreAwardServices/

WICHITA STATE UNIVERSITY
RESEARCH AND TECHNOLOGY TRANSFER

OFFICE OF RESEARCH WORKSHOPS

For more information contact Jana Henderson at jana.henderson@wichita.edu or 978-3285.
For complete schedule go to: http://webs.wichita.edu/?u=wsuresearchadmin&p=/researchworkshops/

WORKSHOP TITLE	DATE	TIME	ROOM	DESCRIPTION
Resources for Researchers	Oct. 26	2:30 – 4:00 p.m.	405 Jardine	Come hear about the WSU resources available to you as a researcher: T3, Ennovar and many others! RSVP through WSU My Training Portal.
Pivot Open Lab	Oct. 27	2:30 – 4:00 p.m.	409E Jardine	The Office of Research will be holding Open Labs this fall for Faculty interested in using PIVOT as well as answering questions regarding their existing account. ***This is a come and go lab with no registration required.***
IP Disclosure Form Open Lab	Nov. 1	2:00 – 4:00 p.m.	215 Devlin Hall Innovation hub	Come with your questions and get assistance completing an IP disclosure form for your ideas, technology, curriculum, research and more. ***This is a come and go lab with no registration required.***
IRB Open Lab	Nov. 14	9:30 – 11:00 a.m.	405 Jardine	The IRB Administrator will be holding Open Labs this fall for Faculty, Staff or Students who have questions about the new forms or about their study in general. ***This is a come and go lab with no registration required.***
Research Compliance Open Lab	Nov. 16	9:00 – 11:00 a.m.	215 Devlin Hall Innovation hub	The Research Compliance Office will hold an open lab for questions regarding hiring foreign nationals; shipping or receiving items from outside the US; international travel; review of Research projects for export compliance; conflicts of interest & management plans. ***This is a come and go lab with no registration required.***
Improve Your Chances of Obtaining Internal Grants at WSU	Dec. 7	3:00 – 4:30 p.m.	RSC 142 Harvest Room	What are the internal grant opportunities at WSU? What is the role of the Faculty Support Committee with regards to internal grant funding? How can I apply? How do I improve my chances of being funded? Come hear from the reviewers in their own words about what they are looking for!

NOTICES

NSF: Dear Colleague Letter: Life STEM *(NSF 16-143)*

The National Science Foundation (NSF) has established inclusiveness as one of its core values. The Foundation seeks and embraces contributions from all segments of the science, technology, engineering, and mathematics (STEM) community including underrepresented groups and minority serving institutions. This Dear Colleague Letter (DCL) describes another opportunity to build on the Agency's longstanding efforts of inclusiveness by providing a mechanism for researchers to create, implement, and evaluate innovative models of intervention in STEM, beginning in elementary school through undergraduate studies. NSF invites eligible organizations to submit research proposals that create, implement, and evaluate models of intervention that will advance the knowledge base for establishing and retaining underrepresented minorities in STEM fields with particular attention to life science and the biosciences. Proposals should partner eligible organizations with local elementary, middle or high schools to foster collaborative relationships between K-12 science educators and the research community. The activities may occur in formal and/or informal settings. Proposals may address science topics and activities related to curriculum development, teacher support, and student engagement. Proposals should describe effective methods to disseminate findings broadly to the K-16 science education community.

- **URL:***https://www.nsf.gov/pubs/2016/nsf16143/nsf16143.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click*

NSF: Dear Colleague Letter: Advanced Measurement Systems for Experimental Determination of Complex Biomaterial Properties *(NSF 16-142)*

Through this Dear Colleague Letter (DCL), the Division of Civil, Mechanical and Manufacturing Innovation (CMMI), Directorate for Engineering (ENG), announces its intention to support research on advanced measurement systems for experimental determination of complex biomaterial properties through its Biomechanics and Mechanobiology (BMMB) and Mechanics of Materials and Structures (MoMS) core programs. BMMB and MoMS Programs of CMMI welcome proposals as part of their existing programs that advance developments at all levels for the experimental determination of complex biomaterial properties tested in situ. Proposals for these advances include (but are not limited to) research that specifically addresses determination of dynamic elastic and failure mechanical properties of the brain, bone, individual cells, tissue, and other biological material systems. Development and validation of mathematical and/or computational techniques for inverse identification of complex and/or novel material model property distributions are included in this call.

- **URL:***http://www.nsf.gov/pubs/2016/nsf16142/nsf16142.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click*

WICHITA STATE UNIVERSITY
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INTERNAL OPPORTUNITIES

Excellence Awards
Wichita State University
Nominations Due: 12/4/2016

Wichita State University Excellence in Creative Activity Award:
This award will be made annually to a Wichita State University faculty member who has, in the judgment of his or her peers, established an exemplary and demonstrable record of creative activity which has not only increased the faculty member's reputation, but has also brought recognition to the University.

Wichita State University Award for Community Research:
This award will be made annually to a Wichita State University faculty member who has established an exemplary and demonstrable record of scholarship extended to external constituents resulting in a significant outcome for individuals, organizations, or communities in problem solving or development.

Wichita State University Excellence in Research Award:
This award is made annually to a Wichita State University faculty member who has, in the judgment of his or her peers, established an exemplary and demonstrable record of research which has not only enhanced the faculty member's career, but has also advanced the University's research mission.

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

WICHITA STATE UNIVERSITY
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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 NOI due date listed in the Funding Bulletin if you wish to submit a limited submission program. **Because many limited submission programs often have short turnaround times, it is important that researchers also periodically check the Office of Research's *Limited Submission Opportunities* webpage for additional opportunities that may not have made it into the bulletin. There are currently *eight* open limited submission competitions:**

(1) Scalable Nanomanufacturing for Integrated Systems (SNM-IS)

National Science Foundation (NSF)

Due Date: Internal 10/21/2016; Full Proposal 1/13/2017

NSF announces a fifth year of a program on collaborative research and education in the area of Scalable Nanomanufacturing. This program is in response to and is a component of the National Nanotechnology Initiative Signature Initiative: Sustainable Nanomanufacturing - Creating the Industries of the Future (http://www.nano.gov/node/611). Although many nanofabrication techniques have demonstrated the ability to fabricate small quantities of nanomaterials, nanostructures and nanodevices for characterization and evaluation purposes, the emphasis of the Scalable Nanomanufacturing program is on research to overcome the key scientific and technical barriers that prevent the production of useful nanomaterials, nanostructures, devices and systems at an industrially relevant scale, reliably, and at low cost and within environmental, health and safety guidelines.

Competitive proposals will incorporate three elements in their research plans:

- A persuasive case that the nanomaterials, nanostructures, devices or systems to be produced have or are likely to have sufficient demand to justify eventual scale-up;
- A clearly identified set of research issues for science and engineering solutions that must be addressed to enable the production of high quality nano-enabled products at low cost; and
- A compelling research plan with clear objectives and approaches to overcome the identified research issues.
- The mode of support is Nanoscale Interdisciplinary Research Teams (NIRT).

Proposals submitted to this program should consider addressing aspects of the nanomanufacturing value chain:

- Novel scalable processes and techniques for large-area or continuous manufacturing of nano-scale materials and structures and their assembly and integration into higher order systems;
- Fundamental scientific research in well-defined technical areas that are compellingly justified as approaches to overcome critical barriers to scale-up and integration; and

- Design principles for production systems leading to nanomanufacturing platforms; identification of metrology, instrumentation, standards and control methodologies needed for process control and to assess quality and yield.

Competitive proposals are expected to address the training and education of students in nanomanufacturing and related areas. Since Scalable Nanomanufacturing research will involve addressing multiple scientific challenges, an inter-disciplinary approach is strongly encouraged. Disciplines could range from mathematics to the physical sciences to engineering. While not required, collaborative activities with industrial or small business companies are welcome and collaborations in which industrial partners develop industrially relevant test-beds where university and company researchers can experiment and interact are encouraged. It is advisable that such firms be consulted early in the proposal preparation process and that their intellectual contributions be clearly explained in the proposal. Other research and education projects in nanoscale science and engineering will continue to be supported in the appropriate programs and divisions. ***An academic institution – a university, or a campus in a multi-campus university -- may submit no more than one (1) proposal on which it is the lead organization in response to this solicitation.*** **NSF 16-604**

- **URL:** *http://www.nsf.gov/pubs/2016/nsf16604/nsf16604.htm*

(2) National Science Foundation Research Traineeship Program (NRT)

National Science Foundation (NSF)

Due Date: Internal 10/21/2016; Letters of Intent 12/9/2016; Full Proposals 2/7/2017

The NSF Research Traineeship (NRT) program is designed to encourage the development and implementation of bold, new, and potentially transformative models for STEM graduate education training. The NRT program seeks proposals that ensure that graduate students in research-based master's and doctoral degree programs develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. **The NRT program includes two tracks: the Traineeship Track and the Innovations in Graduate Education (IGE) Track.**

The **Traineeship Track** is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, and aligned with changing workforce and research needs. For FY2016, there are four priority areas: (1) Data-Enabled Science and Engineering (DESE), (2) Understanding the Brain (UtB), (3) Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS), and (4) any other interdisciplinary research theme of national priority. The priority research areas for the FY2017 competition will be (1) UtB, (2) INFEWS, and (3) any other interdisciplinary research theme of national priority.

The **IGE Track** focuses on test-bed projects aimed at piloting, testing, and validating innovative and potentially transformative approaches to graduate education. IGE projects are intended to generate the knowledge required for their customization, implementation, and broader adoption. While the Traineeship Track promotes building on the current knowledge base to develop comprehensive programs to effectively train STEM graduate students, the IGE Track supports testing of novel models or activities with high potential to enrich and extend the knowledge base on effective graduate education approaches.

The NRT program addresses both workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education. For both tracks, strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, informal science centers, and academic partners are encouraged. **NSF 16-503** ***An eligible organization may participate in two Traineeship Track proposals and two Innovations in Graduate Education Track proposals per competition. Participation includes serving as a lead organization on a non-collaborative proposal or as a lead organization, non-lead organization, or subawardee on a collaborative proposal.***

- **URL:** *http://www.nsf.gov/pubs/2016/nsf16503/nsf16503.htm*

(3) Nurse Anesthetist Traineeship Program (NAT)

U.S. Dept. of Health & Human Services - Health Resources & Services Administration (HRSA)

Due Date: Internal 10/28/2016; Application 12/5/2016

The purpose of the Nurse Anesthetist Traineeship (NAT) Program is to provide traineeship support for licensed registered nurses enrolled as full-time students in a master's or doctoral nurse anesthesia program. Traineeships will pay all or part of the costs of the tuition, books, and fees, and the reasonable living expenses of the individual during the period for which the traineeship is provided. Under the NAT Program, the maximum length of support per student is limited to a cumulative total of 30 months. The initial traineeship appointment must be made for a full academic year, not to exceed 12 months. **HRSA-17-064** ***Multiple applications from an organization are allowable; however, applicants can submit only one application per campus.***

- **URL:** *http://www.hrsa.gov/grants/index.html*

(4) IUSE / Professional Formation of Engineers: Revolutionizing Engineering and Computer Science Departments (RED)

National Science Foundation (NSF)

Due Date: Internal 11/4/2016; Letters of Intent 12/9/2016; Full Proposals 1/18/2017

This funding opportunity enables engineering and computer science departments to lead the nation by successfully achieving significant sustainable changes necessary to overcome longstanding issues in their undergraduate programs and educate inclusive communities of engineering and computer science students prepared to solve 21st-century challenges. In 2014, ENG launched an initiative, the Professional Formation of Engineers (PFE), to create and support an innovative and inclusive engineering profession for the 21st century. At the same time, in 2014, NSF launched the agency-wide Improving Undergraduate STEM Education (IUSE) framework, which is a comprehensive effort to accelerate improvements in the quality and effectiveness of undergraduate education in all STEM fields. The RED program was first offered in FY 2015 as a PFE initiative aligned with the IUSE framework. Additional programs have been created within the IUSE framework across NSF, such as the IUSE: EHR program within EHR. Even as demographic and regional socio-economic factors affect engineering and computer science 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 faculty must be incentivized. Departmental cultural barriers to change and 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 building their capacities for 21st- century and "T-shaped" professional skills, including design, leadership, communication, understanding historical and contemporary social contexts, lifelong learning, professional ethical responsibility, creativity, entrepreneurship, and multidisciplinary teamwork. It is expected 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. The research on departmental change that results from these projects should inform change more broadly across the STEM disciplines. **NSF 17-501** ***An organization is allowed up to two submissions per competition.***

- **URL:** *https://www.nsf.gov/pubs/2017/nsf17501/nsf17501.htm*

(5) Poetry Out Loud: 2018 National Finals Competition

National Endowment for the Arts (NEA)

Due Date: Internal 11/4/2016; Application 1/5/2017

The purpose of this Program Solicitation is to select an organization (Cooperator) to produce and coordinate the three-day 2018 POL National Finals competition of state and jurisdictional champions of the POL program, in conjunction with the National Endowment for the Arts and its partners. That National Finals will take place April 23-25, 2018 in Washington, DC. The National Finals competition venue and hotel have already been reserved to ensure the availability of space. **NEAPS1604** ***An organization may submit only one proposal under this program solicitation.***

In brief, the Cooperator will:

- Produce the semi-final and final student competitions (the "National Finals"), including the production of a live webcast of the National Finals.
- Coordinate program components such as participant registration, travel, lodging, local transportation, and other events for program participants.

- **URL:** *https://www.arts.gov/program-solicitation-poetry-out-loud-2018-national-finals-competition*

(6) EPSCoR Research Infrastructure Improvement Program: Track-2 Focused EPSCoR Collaborations (RII Track-2 FEC)

National Science Foundation (NSF) - Office of Experimental Program to Stimulate Competitive Research (EPSCoR)

Due Date: Internal 11/11/2016; Letter of Intent 1/10/2017; Full Proposal 2/10/2017

The Experimental Program to Stimulate Competitive Research (EPSCoR) is designed to fulfill the mandate of the National Science Foundation (NSF) to promote scientific progress nationwide. A jurisdiction is eligible to participate in EPSCoR programs if its level of NSF research support is equal to or less than 0.75 percent of the total NSF research and related activities budget for the most recent three-year period. Through this program, NSF establishes partnerships with government, higher education, and industry that are designed to effect sustainable improvements in a jurisdiction's research infrastructure, Research and Development (R&D) capacity, and hence, its R&D competitiveness. RII Track-2 FEC builds interjurisdictional collaborative teams of EPSCoR investigators in scientific focus areas consistent with NSF priorities. Projects are investigator-driven and must include researchers from at least two RII-eligible jurisdictions. The Science, Technology, Engineering, and Mathematics (STEM) research and education activities should seek to broaden participation through the strategic inclusion and integration of different types of individuals, institutions, and sectors throughout the project. Proposals must describe a comprehensive and integrated vision to drive

discovery and build sustainable STEM capacity that exemplifies diversity of all types (individual, institutional, geographic, and disciplinary). The development of diverse early-career faculty is a critical component of this sustainable STEM capacity. For FY 2017, RII Track-2 FEC proposals are invited on a single topic: Genomes to Phenomes. A single proposal is submitted for a project. Support for non-lead collaborating institutions should be requested as subawards. Separately submitted collaborative proposals are not allowed. Each participating EPSCoR jurisdiction must have at least one co-PI on the project. **NSF 17-503** ***Only one RII Track-2 FEC proposal may be submitted in response to this solicitation by an organization in a RII-eligible jurisdiction.***

- **URL:** *https://www.nsf.gov/pubs/2017/nsf17503/nsf17503.htm*

(7) NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)

National Science Foundation (NSF)

Due Date: Internal 1/13/2017; Full Proposals 4/20/2017

A well-educated science, technology, engineering, and mathematics (STEM) workforce is a significant contributor to maintaining the competitiveness of the U.S. in the global economy. The National Science Foundation (NSF) Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) program addresses the need for a high quality STEM workforce in STEM disciplines supported by the program and for the increased success of low-income academically talented students with demonstrated financial need who are pursuing associate, baccalaureate, or graduate degrees in science, technology, engineering, and mathematics (STEM) [6], [16]. Recognizing that financial aid alone cannot increase retention and graduation in STEM, the program provides awards to Institutions of Higher Education (IHEs) to fund scholarships and to advance the adaptation, implementation, and study of effective evidence-based curricular and co-curricular activities that support recruitment, retention, transfer (if appropriate), student success, academic/career pathways, and graduation in STEM. The S-STEM program encourages collaborations among different types of partners: Partnerships among different types of institutions; collaborations of STEM faculty and institutional, educational, and social science researchers; and partnerships among institutions of higher education and local business and industry, if appropriate. The program seeks: 1) to increase the number of low-income academically talented students with demonstrated financial need obtaining degrees in STEM and entering the workforce or graduate programs in STEM; 2) to improve the education of future scientists, engineers, and technicians, with a focus on academically talented low-income students; and 3) to generate knowledge to advance understanding of how factors or evidence-based curricular and co-curricular activities affect the success, retention, transfer, academic/career pathways, and graduation in STEM of low-income students. ***An Institution may submit one proposal from each constituent school or college that awards degrees in an eligible field.*** **NSF 16-540**

- **URL:** *http://www.nsf.gov/pubs/2016/nsf16540/nsf16540.htm*

(8) ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers (ADVANCE)

National Science Foundation (NSF)

Due Date: Deadlines vary by track (see below) *(Internal competition required for IT-Preliminary, Institutional Transformation (IT), or Adaptation tracks only – please contact proposals@wichita.edu for additional information)*

Despite significant increases in the proportion of women pursuing science, technology, engineering, and mathematics (STEM) doctoral degrees, women are significantly underrepresented as faculty, particularly in upper ranks, and in academic administrative positions, in almost all STEM fields. The problems of recruitment, retention, and advancement that are the causes of this underrepresentation vary by discipline and across groups of women faculty (e.g., by race/ethnicity, disability status, sexual orientation, foreign-born and foreign-trained status, and faculty appointment type). The ADVANCE program is designed to foster gender equity through a focus on the identification and elimination of organizational barriers that impede the full participation and advancement of all women faculty in academic institutions. Organizational barriers that inhibit equity may exist in areas such as policy, practice, culture, and organizational climate. For example, practices in academic departments that result in the inequitable allocation of service or teaching assignments may impede research productivity, delay advancement and create a culture of differential treatment and rewards. Policies and procedures that do not mitigate implicit bias in hiring, tenure, and promotion decisions could mean that women and underrepresented minorities are evaluated less favorably, perpetuating their underrepresentation and contributing to a climate that is not inclusive. The goals of the ADVANCE program are (1) to develop systemic approaches to increase the representation and advancement of women in academic STEM [1] careers; (2) to develop innovative and sustainable ways to promote gender equity that involve both men and women in the STEM academic workforce; and (3) to contribute to the research knowledge base on gender equity and the intersection of gender and other identities in STEM academic careers. The ADVANCE program contributes to the development of a more diverse science and engineering workforce because of the focus on equity for STEM academic faculty who are educating, training, and mentoring undergraduate and graduate students and postdoctoral scholars. There are three program tracks. All projects are expected to build on prior ADVANCE work and gender equity research and literature to broaden the implementation of organizational and systemic strategies to foster gender equity in STEM academic careers. All ADVANCE proposals are expected to recognize that gender does not exist in isolation from other characteristics, such as race/ethnicity, disability status, sexual orientation, foreign-born and foreign-trained status, faculty appointment type, etc., and should offer strategies to promote gender equity for all faculty:

- The ***Institutional Transformation (IT)*** track supports the development of*innovative* organizational change strategies to produce comprehensive change within one non-profit two-year or four-year academic institution across all STEM disciplines. ***IT*** projects are also expected to contribute new

research on gender equity in STEM academics. Projects that do not propose innovative strategies may be more appropriate for the ***Adaptation*** track.
- The ***Adaptation*** track supports the adaptation and implementation of evidence-based organizational change strategies, ideally from among those developed and implemented by ADVANCE projects. ***Adaptation*** awards may support the adaptation and implementation of proven organizational change strategies within a non-profit two-year or four-year academic institution that has not had an ADVANCE***IT*** award. ***Adaptation*** awards may also be made to a STEM organization to implement systemic change strategies focused across all STEM disciplines, several STEM disciplines, or within one STEM discipline.
- The ***Partnership*** track will support partnerships of two or more non-profit academic institutions and/or STEM organizations to increase gender equity in STEM academics. Projects should have national or regional impact and result in systemic change within one STEM discipline, several STEM disciplines, or all STEM disciplines. Partnering STEM organizations can include any entity eligible for NSF support. Partners may include professional societies, industry, non-profit organizations, publishers, policy and research entities, state systems of higher education, higher education organizations, as well as institutions of higher education. ***Partnership*** proposals must include a final year focused on sustainability and/or scale-up, communication, and evaluation.

For all proposals, ADVANCE is interested in supporting a range of non-profit academic institution types including: community colleges, primarily undergraduate institutions, minority-serving institutions (e.g. Tribal Colleges and Universities, Historically Black Colleges and Universities, Hispanic-Serving Institutions, Native Hawaiian Serving Institutions, Alaska Native Institutions, Predominantly Black Institutions and Non-tribal, Native American Serving Institutions), women's colleges, institutions primarily serving persons with disabilities, and master's and doctoral level institutions. **NSF16-594**

Track * Denotes limited submission	**Internal Deadline**	**Letter of Intent**	**Preliminary Proposal**	**Full Proposal**
Partnership		12/14/2016		1/11/2017
Adaptation*	TBD	8/9/2017		9/13/2017
Institutional Transformation*	TBD		4/12/2017	1/17/2018
ADVANCE Resource and Coordination Network				3/15/2017

- **URL:***http://www.nsf.gov/pubs/2016/nsf16594/nsf16594.htm?WT.mc_id=USNSF_25&WT.mc_ev=click*

GENERAL

Arthur Molella Distinguished Fellowship
Smithsonian Institution (SI) - National Museum of American History - Lemelson Center for the Study of Invention and Innovation
Due Date: 12/1/2016

The Lemelson Center for the Study of Invention and Innovation is pleased to announce the creation of the Arthur Molella Distinguished Fellowship at the Smithsonian Institution's National Museum of American History (NMAH). The Lemelson Center seeks to appoint an experienced author or senior scholar from the history of technology, science and technology studies, business history, museum studies, STEAM education, or an allied field. The specific arrangement is flexible: the Molella Distinguished Fellow may use the funds as a sabbatical supplement; for several short-duration visits; for a single residency focused on research and writing; or for a series of lectures leading to a major publication. The Lemelson Center invites the Molella Distinguished Fellow to participate in the intellectual life and programmatic activities of the museum; to take advantage of the expertise of the museum's research staff; and to consult the Institution's vast invention and technology collections. The Lemelson Center will assist in arranging a visa for non-US citizens, provide a workspace, and facilitate startup procedures at the Smithsonian. The Lemelson Center invites applications covering a broad spectrum of research topics in the history of technology, invention, and innovation. However, strong preference in the selection of the Arthur Molella Distinguished Fellow will be given to projects whose topics align with one (or more) of the Lemelson Center's strategic research and programmatic areas, including: (1) the role of place in invention and innovation; (2) the making and training of inventors and innovators; (3) innovation in sports; (4) the role of risk and failure in invention and innovation; or (5) projects that illuminate inventors from diverse backgrounds or any inventions and technologies associated with groups (e.g. women, minorities, disabled, LGBT, etc.) that are traditionally under-represented in the historical record.

- **URL:** *http://invention.si.edu/arthur-molella-distinguished-fellowship*

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ARTS & HUMANITIES

Museum Assessment Program
American Alliance of Museums (AAM) – Institute of Museum and Library Services (IMLS)
Due Dates: 12/1/2016, 7/1/2017

The Museum Assessment Program (MAP) is supported through a cooperative agreement between the Institute of Museum and Library Services and the American Alliance of Museums. It is designed to help museums assess their strengths and weaknesses, and plan for the future. A MAP assessment requires members of the museum staff and governing authority to complete a self-study. After completion of the self-study, a site visit is conducted by one or more museum professionals, who tour the museum and meet with staff, governing officials, and volunteers. The reviewers work with the museum and MAP staff to produce a report evaluating the museum's operations, making recommendations, and suggesting resources. **There are three types of MAP assessments:**

- Organizational Assessment: Reviews all areas of operations.
- Collections Stewardship Assessment: Focuses on collections policies, planning access, documentation, and collections care within the context of the museum's total operations.
- Community Engagement Assessment: Assesses the museum's understanding of and relationship with its communities as well as its communities' perceptions of and experiences with the museum.

- **URL:** *http://aam-us.org/resources/assessment-programs/MAP*

Conservation and Scientific Research Fellowships: Andrew W. Mellon Foundation Conservation Fellowships
Metropolitan Museum of Art (MMA)
Due Date: 12/2/2016

The Andrew W. Mellon Foundation has made it possible for The Metropolitan Museum of Art to award a limited number of annual conservation fellowships for training in one or more of the following Museum departments: Arms and Armor, Asian Art Conservation, The Costume Institute, Musical Instruments, Objects Conservation (including sculpture, metalwork, glass, ceramics, furniture, and archaeological objects), Paintings Conservation, Paper Conservation, Scientific Research, or Textile Conservation. Fellowships are not granted every year in each department.

- **URL:** *http://www.metmuseum.org/about-the-met/fellowships/conservation-and-scientific-research-fellowships*

Artist as Activist Fellows
Rauschenberg Foundation, Robert
Due Date: 12/5/2016

Artist as Activist provides game-changing resources to artists of all disciplines, including visual, performing, media, design, and other creative professions, who address important global challenges through their creative practice. The program is comprised of three distinct grant opportunities: individual fellowships to U.S.-based artists and art collectives with a demonstrated commitment to applying their creative work toward a social or political action; travel & research grants for similarly focused artists; and general operating support to organizations that have been exemplars in supporting artists who work at the intersection of art and change. This year's Artist as Activist Fellowship provides the opportunity for creative professionals who are committed to moving the dial on mass incarceration, and by extension racial justice, to seek a robust set of resources to advance their work. This is a departure from last year's grant cycle, which invited artists pursuing projects on any topic to apply for support. Moving forward, the Artist as Activist Fellowship will be guided by an alternating theme. For the 2016 and 2017 cycles of the fellowship, the thematic frame is racial justice through the lens of mass incarceration. The online application to the 2017 Artist as Activist Two Year Fellowship is now open.

- **URL:** *http://www.rauschenbergfoundation.org/grants/art-grants/artist-as-activist*

Bogliasco Study Center
Bogliasco Foundation
Due Date: 1/15/2017, 4/15/2017

Approximately 50 Fellowships - or residencies - are awarded to artists and scholars in the various disciplines of the Arts and Humanities (Archaeology, Architecture, Classics, Dance, Film/Video, History, Landscape Architecture, Literature, Music, Philosophy, Theater, and Visual Arts). Although the Fellowship is not a cash prize, Fellows are provided with living quarters, separate private studios and full board for a month at the Study Center in Bogliasco, Italy. The Bogliasco Foundation does not offer training or courses.

- **URL:** *https://www.bfny.org/en/apply/requirements*

WICHITA STATE UNIVERSITY
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EDUCATION

Upward Bound
U.S. Department of Education (ED)
Due Date: 11/28/2016

Upward Bound provides fundamental support to participants in their preparation for college entrance. The program provides opportunities for participants to succeed in their precollege performance and ultimately in their higher education pursuits. Upward Bound serves: high school students from low-income families; and high school students from families in which neither parent holds a bachelor's degree. The goal of Upward Bound is to increase the rate at which participants complete secondary education and enroll in and graduate from institutions of postsecondary education. Upward Bound projects provide academic instruction in mathematics, laboratory sciences, composition, literature, and foreign languages. Tutoring, counseling, mentoring, cultural enrichment, work-study programs, education or counseling services designed to improve the financial and economic literacy of students; and programs and activities previously mentioned that are specially designed for students who are limited English proficient, students from groups that are traditionally underrepresented in postsecondary education, students with disabilities, students who are homeless children and youths, students who are in foster care or are aging out of foster care system or other disconnected students.

- **URL:***https://www.federalregister.gov/documents/2016/10/17/2016-25058/applications-for-new-awards-upward-bound-program*

ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

Solid State Lighting Advanced Technology R&D 2017
U.S. Department of Energy (DOE) - Office of Energy Efficiency and Renewable Energy (EERE)
Due Date: Concept Papers 11/14/2016; Applications 1/10/2017

DOE's Solid State Lighting (SSL) program has been instrumental in driving the industry forward. Now, by keeping a foot on the accelerator, our nation stands to magnify the benefits of SSL in saving energy, reducing carbon emissions, and enhancing our built environment. Realizing the full potential for energy-efficiency improvements will remain front and center for DOE in setting priorities for targeted

cost-shared R&D projects. Innovation will be essential in unlocking new levels of performance. Through engagement with the lighting community, the DOE SSL Program mission is to further scientific understanding on optimizing light spectrum and intensity for numerous application/tasks using semiconductor technologies to save energy while also enhancing human perception, well-being, and commerce. The specific goal of the SSL Program is: By 2025, develop advanced SSL technologies that, compared to conventional lighting technologies, are much more energy efficient, longer lasting, and cost competitive, by targeting a product system efficiency of 50 percent with appropriate application spectrum. **DE-FOA-0001613**

The objectives of this funding opportunity are to:
- Maximize the energy-efficiency of SSL products in the marketplace
- Remove market barriers through improvements to lifetime, color quality, and lighting system performance
- Reduce costs of SSL sources and luminaires
- Improve product consistency while maintaining high quality products
- Encourage the growth, leadership, and sustainability of domestic U.S. manufacturing within the SSL industry.

The Topic Areas of Interest for this Announcement include topics for LED and OLED technologies:
Topic Area 1: LED Core Technology Research
Topic Area 2: OLED Core Technology Research
Topic Area 3: LED Product Development
Topic Area 4: OLED Product Development
Topic Area 5: LED Manufacturing Research and Development
Topic Area 6: OLED Manufacturing Research and Development

- **URL:** *https://eere-exchange.energy.gov/#FoaId68693dde-c993-459d-8763-d3020ab40f6e*

Applied Mathematics
National Science Foundation (NSF)
Due Date: 11/15/2016

The program supports mathematics research motivated by or having an effect on problems arising in science and engineering. Mathematical merit and novelty, as well as breadth and quality of impact on applications, are important factors. **PD 16-1266**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5664*

Research Opportunities in Space and Earth Sciences (ROSES) - Magnetospheric Multiscale Guest Investigators

National Aeronautics and Space Administration (NASA) - Science Mission Directorate (SMD)

Due Date: Step 1 Proposals 11/18/2016; Step 2 Proposals 1/13/2017

This particular ROSES element supports investigations whose primary focus is the analysis of MMS data. Proposals should use primarily MMS data to address (1) the goals of the MMS mission (found at https://mms.gsfc.nasa.gov/about_mms.html) or (2) any of the relevant goals of the Heliophysics Decadal survey (Solar and Space Physics: A Science for a Technological Society http://www.nap.edu/catalog.php?record_id=13060):

1. Determine the origins of the Sun's activity and predict the variations in the space environment;
2. Determine the dynamics and coupling of Earth's magnetosphere, ionosphere, and atmosphere and their response to solar and terrestrial inputs;
3. Determine the interaction of the Sun with the solar system and the interstellar medium;
4. Discover and characterize fundamental processes that occur both within the heliosphere and throughout the universe.

This program is intended to maximize the scientific return from this recently launched mission by providing support for research of a breadth and complexity beyond presently funded investigations. As with the open element of the H-GI program, investigations may employ theory, models, and data from other sources, as needed, to interpret and analyze NASA's MMS data, but only as a secondary emphasis. That is, in any such instance, the proposal must clearly demonstrate that the theory, models, and/or data in question are necessary for interpretation of the MMS data and are not themselves the primary object of the investigation. Development of new models and theories is not solicited. **NNH16ZDA001N-XRP**

- **URL:***https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={F8F1982D-8FE4-1E78-F6D5-82E8DA0E7B21}&path=open*

Quantification of Aging from Long-tern Exposure

U.S. Department of Defense (DoD)

Due Date: Responses due 11/21/2016

Notice seeking applications to address whether in-service aging influences composite material mechanical properties meaningfully through a sampling of fielded components and to enhance progressive failure analysis methods to include spatially varying property distributions attributed to environmental degradation regardless of the outcome of the in-service components sampled. This research will utilize legacy carbon-fiber composite airframe components to establish the effects of in-

service natural aging on the composite material properties and determine the importance of environmental aging as a critical parameter in the service life of the composite structure. In-service aging includes the influence and interaction of time, load, heat, ultraviolet light, oxidation, and other environmental conditions on material property loss. Furthermore, the envisioned research intends to develop progressive damage models to include the residual strength effects as observed from fleet in-service environmental history and/or account for spatially varying properties observed in a laboratory aging scenario or through simulation of the aging process. **FA8650-17-S-5002**

- **URL:***https://www.fbo.gov/index?s=opportunity&mode=form&id=ed9ac6218a5f9983883ef47a5dd7e1f1&tab=core&_cview=0*

Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences (CDS&E-MSS)
National Science Foundation (NSF)
Due Date: 12/9/2016

The CDS&E-MSS program accepts proposals that confront and embrace the host of mathematical and statistical challenges presented to the scientific and engineering communities by the ever-expanding role of computational modeling and simulation on the one hand, and the explosion in production of digital and observational data on the other. The goal of the program is to promote the creation and development of the next generation of mathematical and statistical theories and tools that will be essential for addressing such issues. To this end, the program will support fundamental research in mathematics and statistics whose primary emphasis will be on meeting the aforementioned computational and data-related challenges. This program is part of the wider Computational and Data-enabled Science and Engineering (CDS&E) enterprise in NSF that seeks to address this emerging discipline. The research supported by the CDS&E-MSS program will aim to advance mathematics or statistics in a significant way and will address computational or big-data challenges. Proposals of interest to the program will include a Principal Investigator or co-Principal Investigator who is a researcher in the mathematical or statistical sciences in an area supported by the Division of Mathematical Sciences. The program encourages submission of proposals that include multidisciplinary collaborations or the training of mathematicians and statisticians in CDS&E. **PD 16-8069**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504687*

Advanced Biomanufacturing of Therapeutic Cells
National Science Foundation (NSF)
Due Date: Preliminary Proposals 1/4/2017; Full Proposals 4/17/2017

In recent years, somatic cells as therapeutic agents have provided new treatment approaches for a number of pathological conditions that were deemed untreatable, or difficult to treat. Several successful cell therapies using T cells have been demonstrated for cancer and autoimmune diseases, while stem cell therapies have given relief for heart disease and stroke. Hundreds of clinical trials are ongoing to examine efficacy of cell therapies for a variety of other diseases including diabetes, Alzheimer's, Parkinson's, and Crohn's disease. Production of therapeutic cells is currently expensive and, therefore, cost prohibitive for the large number of people who might benefit from these treatments. The overarching goal of this Advanced Biomanufacturing of Therapeutic Cells (ABTC) solicitation is to catalyze well-integrated interdisciplinary research to understand, design, and control cell manufacturing systems and processes that will enable reproducible, cost-effective, and high-quality production of cells with predictable performance for the identified therapeutic function. **NSF 17-502**

- **URL:** *https://www.nsf.gov/pubs/2017/nsf17502/nsf17502.htm*

Manufacturing Machines and Equipment (MME)
National Science Foundation (NSF)
Due Date: 1/13/2017, 9/15/2017

The MME program supports fundamental research that enables the development of new and/or improved manufacturing machines and equipment, and optimization of their use, with a particular focus on equipment appropriate for the manufacture of mechanical and electromechanical devices, products, and systems featuring scales from microns to meters (proposals relating to nanomanufacturing should be submitted to the CMMI NanoManufacturing program, and those relating to the manufacture of electronic devices such as IC products should be submitted to the ECCS Division). Proposals relating to a wide range of manufacturing operations are encouraged, including both subtractive and additive processes, forming, bonding/joining, and laser processing. Proposals that will enable innovations in one or more of the Manufacturing USA institutes' focus areas and leverage the facilities, infrastructure and member companies of an institute, are also encouraged. Competitive projects will propose hypothesis-driven research that advances the frontiers of knowledge in relevant areas. Proposals submitted to the MME program should include a clearly articulated research (not developmental) objective and a coherent plan to accomplish the stated objective. Both experimental and theoretical work are supported. The Project Description must contain, as a separate section within the narrative, a section labeled "Broader Impacts." **PD 17-1468**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346*

Research on the Science and Technology Enterprise: Statistics and Surveys - R&D, U.S. S&T Competitiveness, STEM Education, S&T Workforce
National Science Foundation (NSF)
Due Date: 1/17/2017

The National Center for Science and Engineering Statistics (NCSES) of the National Science Foundation (NSF) is one of the thirteen principal federal statistical agencies within the United States. It is responsible for the collection, acquisition, analysis, reporting and dissemination of objective, statistical data related to the science and engineering enterprise in the United States and other nations that is relevant and useful to practitioners, researchers, policymakers and the public. NCSES uses this information to prepare a number of statistical data reports as well as analytical reports including the National Science Board's biennial report, *Science and Engineering (S&E) Indicators, and Women, Minorities and Persons with Disabilities in Science and Engineering.*The Center would like to enhance its efforts to support analytic and methodological research in support of its surveys, and to engage in the education and training of researchers in the use of large-scale nationally representative datasets. NCSES welcomes efforts by the research community to use NCSES data for research on the science and technology enterprise, to develop improved survey methodologies for NCSES surveys, to create and improve indicators of S&T activities and resources, and strengthen methodologies to analyze and disseminate S&T statistical data. To that end, NCSES invites proposals for individual or multi-investigator research projects, doctoral dissertation improvement awards, workshops, experimental research, survey research and data collection and dissemination projects under its program for Research on the Science and Technology Enterprise: Statistics and Surveys. **NSF 15-521**

- **URL:** *https://nsf.gov/pubs/2015/nsf15521/nsf15521.htm*

Transdisciplinary Research in Principles of Data Science (TRIPODS)
National Science Foundation (NSF)
Due Date: Letters of Intent 1/19/2017; Full Proposals 3/15/2017

Transdisciplinary Research In Principles Of Data Science (TRIPODS) aims to bring together the statistics, mathematics, and theoretical computer science communities to develop the theoretical foundations of data science through integrated research and training activities. Phase I, described in this solicitation, will support the development of small collaborative Institutes. Phase II (to be described in an anticipated future solicitation, subject to availability of funds) will support a smaller number of larger Institutes, selected from the Phase I Institutes via a second competitive proposal process. All TRIPODS Institutes must involve significant and integral participation by all three of the aforementioned communities. **NSF 16-615**

- **URL:** *https://www.nsf.gov/pubs/2016/nsf16615/nsf16615.htm*

HEALTH, LIFE & EARTH SCIENCES

Collaborative Sciences Award

American Heart Association (AHA)

Due Date: Letters of Intent 11/3/2016; Applications 2/9/2017

The objective of this award is to foster innovative, new collaborative approaches to research projects which propose novel pairings of investigators from at least two broad disciplines. The proposal must focus on the collaborative relationship, such that the scientific objectives could not be achieved without the efforts of at least two co- principal investigators and their respective disciplines. The combination and integration of studies may be inclusive of basic, clinical, population and/or translational research.

Science Focus

Research broadly related to cardiovascular function and disease and stroke, or to related clinical, basic science, bioengineering or biotechnology, and public health problems, including multidisciplinary efforts.

Disciplines

Proposals are encouraged from all basic disciplines as well as epidemiological, behavioral, community and clinical investigations that bear on cardiovascular and stroke problems.

- **URL:** *https://professional.heart.org/professional/ResearchPrograms/UCM_460459_Collaborative-Sciences-Award.jsp*

Dynamics of Coupled Natural and Human Systems (CNH)

National Science Foundation (NSF)

Due Date: 11/15/2016

The Dynamics of Coupled Natural and Human Systems (CNH) Program supports interdisciplinary research that examines human and natural system processes and the complex interactions among human and natural systems at diverse scales. Research projects to be supported by CNH must include analyses of four different components: (1) the dynamics of a natural system; (2) the dynamics of a human system; (3) the processes through which the natural system affects the human system; and (4) the processes through which the human system affects the natural system. CNH also supports research coordination networks (CNH-RCNs) designed to facilitate activities that promote future research by broad research communities that will include all four components necessary for CNH funding. **NSF 14-601**

- **URL:** *https://www.nsf.gov/pubs/2014/nsf14601/nsf14601.htm*

Minority Initiatives Awards
American Physical Therapy Association (APTA)
Due Date: 12/1/2016

Criteria for selection include the following:
- Planned, comprehensive initiatives have been developed by the program that can assist in the recruitment, admission, retention, and graduation of minority students that demonstrate effectiveness, achievement, and a sustained level or increase in the number of minority students, over a period of at least 3 years; and/or planned, comprehensive initiatives have been developed by the program that can sustain or increase the number of minority faculty recruited, employed, and retained, over a period of at least 3 years.
- Initiatives have been developed that provide services that can assist students and/or faculty from racial and ethnic minority groups.
- Institutional support is demonstrated for the initiatives and efforts put forth by the physical therapist professional education program or physical therapist assistant education program.

- **URL:** *http://www.apta.org/HonorsAwards/Awards/MinorityInitiatives/*

SFARI Pilot and Research Awards
Simons Foundation - Simons Foundation Autism Research Initiative (SFARI)
Due Date: Letters of Intent 12/9/2016; Full Proposals 3/22/2017

The mission of SFARI is to improve the understanding, diagnosis and treatment of autism spectrum disorders (ASD) by funding innovative research of the highest quality and relevance. To this end, SFARI solicits applications for SFARI Awards from individuals who will conduct bold, imaginative, rigorous and relevant research. Grants awarded through this RFA will fund a broad range of ASD-relevant science. SFARI is seeking applications that are grounded in biology and will complement its grants portfolio, which aims to connect autism etiology to brain function and behavior. SFARI strongly advises applicants to familiarize themselves with the work that SFARI currently supports and to think about how their proposals might complement existing grants. Considering SFARI's significant efforts targeted at understanding the genetics of ASD, SFARI encourages applications that propose research to link genetic or other ASD risk factors to a molecular, cellular, circuit and behavioral-level understanding of ASD. Applicants should see also the SFARI blog post "SFARI's 2017 funding priorities," where SFARI discusses its funding priorities and other considerations for successful proposals. Access to the Simons Simplex Collection (SSC) and the Simons Variation in Individuals Project (Simons VIP) - resources of rigorously characterized phenotypic data, genetic data and biospecimens - will be available to all approved scientists through SFARI Base. SFARI encourages applicants to use these resources. Policies regarding data requests and the acquisition of biospecimens are available online. SFARI expects SFARI Investigators to share renewable reagents and data developed using Simons Foundation funds with

other qualified investigators. The quality of the data-sharing plan will factor into the review and affect funding decisions.

The SFARI Pilot Award is the SFARI Award application type for innovative, high-impact proposals requesting support for small-scale projects or early-stage experiments that will build on preliminary data or a prior track record and lead to competitive applications for funding by SFARI or other organizations.

The SFARI Research Award is the SFARI Award application type for competitive proposals from investigators with demonstrated expertise requesting support for compelling, high-impact research on experimental hypotheses for which, in most cases, preliminary data have already been gathered. The foundation will also consider projects focusing on a central hypothesis where success depends on close collaboration between two or more labs.

- **URL:** *https://sfari.org/funding/grants/2016-pilot-and-research-awards-request-for-applications/*

BD2K Support for Meetings of Data Science Related Organizations (U13)
National Institutes of Health (NIH)
Due Date: 12/15/2016, 11/30/2018

The purpose of this Funding Opportunity Announcement (FOA) is to support high quality and impactful conferences/scientific meetings that are convened by data science related organizations whose missions focus on biomedical data science. This FOA, which uses the NIH conference cooperative agreement program (U13), is part of the NIH-wide initiative, Big Data to Knowledge (BD2K). Data science related organizations have a critical role in advancing biomedical data science but often depend on meetings to carry out their work. This FOA will support high quality conferences or meetings that are relevant to the biomedical data science needs of the participating Institutes and Centers of the National Institutes of Health. For the purpose of this FOA, a conference is defined as a gathering, such as in the form of a symposium, seminar, scientific meeting, workshop, or any other organized and formal meeting where persons assemble to coordinate, exchange, and disseminate information, or to explore or clarify a defined subject, problem, or area of knowledge. Applicants representing data science related organizations may request support for one or a series of meetings over multiple years that address areas of data science aligned with the goals of the NIH BD2K program. **RFA-CA-16-020**

- **URL:** *http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-16-020.html*

Biosystems Design to Enable Next-Generation Biofuels and Bioproducts
United States Department of Energy (DOE) - Office of Science (OS)
Due Date: Pre-Applications 12/19/2016; Applications 3/20/2017

Biological and Environmental Research (BER) of the Office of Science (SC), U.S. Department of Energy (DOE) hereby announces its interest in receiving applications for research of interest to the Genomic Science Program in the following research areas:
a) Integrating large-scale systems biology data to model, design, and engineer microbial systems for the production of biofuels and bioproducts: Interdisciplinary approaches to develop innovative, high-throughput modeling, genome-wide design and editing, and engineering technologies for a broad range of microbes relevant for the production of biofuels and bioproducts from biomass.
b) Plant systems design for bioenergy: To develop novel technologies for genome-scale engineering to re-design bioenergy crops that can grow in marginal environments while producing high yield of biomass that can be easily converted to biofuels and bioproducts.

Applications should include strategies to address biocontainment, minimizing risks of potential release of engineered organisms into the environment or other unintended outcomes. **DE-FOA-0001650**

- **URL:** *http://science.energy.gov/grants/foas/open/*

BRAIN Initiative: Data Archives for the BRAIN Initiative (R24)
National Institutes of Health (NIH)
Due Date: 1/17/2017, 10/19/2017 (Letters of Intent due 30 days prior to application due date)

The purpose of this FOA is to provide support for the creation and management of more than one data archive to hold data related to the BRAIN Initiative. The data that will be deposited in a particular archive need not be restricted to data sets funded by BRAIN Initiative awards. Applicants are strongly encouraged to extend existing data archives if possible. The data archive is expected to use relevant standards that describe BRAIN Initiative experiments. Such standards may be developed under RFA-MH-17-256 or may already exist. A data archive will develop a data submission pipeline ensuring appropriate quality control standards for laboratories who are trying to upload data. For example, if an experimental standard defines an allowable range of values for a particular data element, the submission pipeline should make sure that uploaded data respect the current data standard. Ideally, the data archive will create both a submission pipeline and a related validation tool to allow researchers to check the quality of their data even if they are not trying to upload data. Such validation tools should help the research community improve the rigor and reproducibility of their data. Data submission pipelines that originate with the data collection instrument in the depositor's laboratory and require minimal manual intervention would be ideal but are not required. A data archive will work closely with

BRAIN Initiative awardees and others to collect and archive relevant datasets. Each data archive should plan for a help desk to work with those who are trying to upload data. Each data archive must develop plans to make the data readily available to the broad research community and to citizen scientists, as appropriate. Depending on the type of data, data submission agreements and data access agreements may be necessary. **RFA-MH-17-255**

- **URL:** *https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-17-255.html*

BRAIN Initiative: Integration and Analysis of BRAIN Initiative Data (R24)
National Institutes of Health (NIH)
Due Date: 1/10/2017, 10/11/2017 (Letters of Intent due 30 days prior to application due date)

This FOA is one of three related FOAs aimed at building the informatics infrastructure for the BRAIN Initiative. Each of these FOAs is aimed at building an infrastructure that will be used by a particular sub-domain of experimentalists rather than building a single all-encompassing informatics infrastructure now. Building the infrastructure one experimental area at a time will ensure that the infrastructure is immediately useful to components of research community. As our understanding of the brain improves, it may be possible to create linkages between these various sub-domain specific informatics efforts. Applicants to any of these informatics FOAs should keep that goal in mind and build for the future even though the current efforts are more limited in scope. The first FOA will create the data standards that are needed to describe the new experiments that are being created by or used in the BRAIN Initiative (RFA-MH-17-256). The second FOA will create the data infrastructures that will house the data from multiple experimental groups (RFA-MH-17-255). The final FOA (this FOA) supports the development of software to visualize and analyze the data. The visualization/data analysis tools will make use of the standards and will be built so that they can be integrated into the data repositories; similarly, the data repositories are expected to use the standards created in awards under the first FOA. Awardees under all FOAs will work together. Awardees in all groups should budget for hackathons and other collaborative efforts that will be necessary to integrate the products produced by all awardees. Collaborations with neuro-informatics efforts outside of the BRAIN Initiative are both welcome and are encouraged. This FOA can be used to support several different, but related activities. These include modifying existing analysis and visualization tools to deal with BRAIN Initiative data and integrating different types of BRAIN Initiative datasets. It is also possible to propose the development of new tools, but that pathway may take longer than adapting existing tools that have already been developed and tested. The tools must make use of relevant standards. Tools that integrate different types of data may link data across multiple scales or across different species. The focus for integration tools in this FOA is mainly in finding the data and applying metrics for data alignment, standardization and normalization for further analysis. The tools must be user-friendly in accessing and analyzing data from appropriate data archives. Ultimately, it is expected that much of the BRAIN Initiative data will be stored in a cloud

environment, but that may not be initially true. In general, the tools supported under this FOA should analyze/visualize data without the need to download them. The tools should allow data to be combined for analysis/visualization from multiple locations. **RFA-MH-17-256**

- **URL:** *http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-17-256.html*

AHRQ Conference Grant Programs (R13)
U.S. Dept. of Health & Human Services - Agency for Healthcare Research & Quality (AHRQ)
Due Date: 2/1/2017, 5/1/2017, 8/1/2017, 11/1/2017

The Agency for Healthcare Research and Quality (AHRQ), announces its interest in supporting conferences through the AHRQ Conference Grant Program. AHRQ seeks to support conferences that help to further its mission to improve the quality, safety, efficiency, and effectiveness of health care for all Americans.
The types of conferences eligible for support include:
1) Research development - conferences where issues or challenges in the practice and delivery of health care are defined and a research agenda or strategy for studying them is developed;
2) Research design and methodology - conferences where methodological and technical issues of major importance in the field of health services research are addressed or new designs and methodologies are developed;
3) Dissemination and implementation conferences - conferences where research findings and evidence-based information and tools are summarized, communicated and used by organizations and individuals that have the capability to use the information to improve the outcomes, quality, access to, and cost and utilization of health care services; and/or,
4) Research training, infrastructure and career development - conferences where faculty, trainees and students are brought together with stakeholders to develop, share or disseminate research products, experiences, curricula, syllabi, training competencies. These types of conferences are not for the training of individuals in health services research.

AHRQ is especially interested in supporting conferences that demonstrate strategies that include plans for disseminating complementary conference materials and products beyond the participants attending the event. Such strategies might include, but are not limited to, submitting articles for publication, posting information on a web site, and seeking formal opportunities to discuss conference information with others. Only one PD/PI may be designated on the application. **PA-16-453**

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PA-16-453.html*

FirstRisk Advisors Initiatives in College Mental/Behavioral Health Award
American College Health Association - American College Health Foundation (ACHF)
Due Date: 2/3/2017

This award is designed to fund the development of creative initiatives that address prevention, early intervention and treatment for mental and behavioral health disorders among students. The goal of these initiatives is to reduce the risk of mental and behavioral illness and injury among college students and to enhance both individual and community health as a strategy to support student learning. More specifically, the award will support funding for the following:

1. Identifying and tracking students' mental and behavioral health needs as they relate to individual and community health, student retention, student learning and academic advancement.
2. Assessing environmental factors that may contribute to or provide protection from mental and behavioral health disorders. This may include institutional social and cultural factors as well as public policies that affect the health of students.
3. Assessing the adequacy of campus and community resources and partnerships that provide prevention, early intervention and treatment services for students affected by mental and behavioral health disorders.
4. Developing collaborative, strategic campus-wide initiatives and resource allocation that strengthen the health of the campus-learning environment and reduce the risk for development of mental and behavioral health disorders among students.
5. Developing community and public health initiatives and resources designed to increase awareness, early recognition and active intervention for mental and behavioral health issues across campus.
6. Strengthening theory-driven, evidence-based methods and processes for mental and behavioral health assessment, early intervention, treatment, referral and post-treatment follow-up, including multidisciplinary professional development and capacity-building for appropriate health center, counseling center, student services and academic faculty and staff.
7. Development of campus-wide communication strategies to address an immediate threat to on-campus populations as a result of an individual's mental status and actions.

- **URL:** *http://www.acha.org/ACHA/Foundation/FirstRisk_Award.aspx*

Healthy Campus 2020
American College Health Association - American College Health Foundation (ACHF)
Due Date: 2/3/2017

The purpose of this award is to offer funds to support a campus initiative that fosters positive Healthy Campus 2020 outcomes for the campus community. Priority consideration will be given to proposals that result in sustained mobilization and engagement of campus partners to achieve

the goals of Healthy Campus 2020. Healthy Campus 2020 serves as a framework for improving the health of all students, faculty, and staff on campuses nationwide. Strategies recommended in Healthy Campus 2020 extend beyond traditional interventions of education, diagnosis, treatment, and health care at the clinical level. Through the collaborative efforts of health, academic, student affairs, and administrative colleagues, institutions of higher education can foster healthy environments and behaviors.

Healthy Campus 2020 includes:
- 10-year national objectives for students and faculty/staff;
- an action model using the ecological approach; and
- a toolkit for implementation based on the MAP-IT (Mobilize, Assess, Plan, Implement and Track) Framework.

The following are key features of Healthy Campus 2020:
- creates a comprehensive, strategic framework that unites health issues under a single umbrella and aligns with the mission and values of institutions of higher education;
- requires tracking of data-driven outcomes to monitor progress and to motivate, guide, and focus action;
- engages a network of multidisciplinary, multi-sectoral stakeholders at all levels;
- guides local research, program planning, and policy efforts to promote health and prevent disease;
- utilizes population-level interventions, while addressing the social determinants of health.

- **URL:** *http://www.acha.org/ACHA/Foundation/Healthy_Campus_Award.aspx*

Nursing Education Research Grants

National League for Nursing

Due Date: 2/9/2017

The NLN Nursing Education Research Grants Program supports high-quality studies that contribute to the development of the science of nursing education. The NLN-funded grants promote diversity of research topics and support investigators who demonstrate rigor and innovative approaches to advance the field of nursing education research. The NLN is deeply committed to supporting beginning researchers as well as accomplished nursing education scholars.

- **URL:** *http://www.nln.org/professional-development-programs/grants-and-scholarships/nursing-education-research-grants/nln-nursing-education-research-grants-proposal-guidelines*

MULTIPLE DISCIPLINES

Microphysiological Systems (MPS) for Disease Modeling and Efficacy Testing (UG3/UH3)
National Institutes of Health (NIH)
Due Date: Letters of Intent 11/13/2016; Applications 12/13/2016

This FOA invites applications for the Microphysiological Systems (MPS) for Disease Modeling and Efficacy Testing Program to develop highly reproducible and translatable in vitro models for preclinical efficacy studies through discovery and validation of translatable biomarkers, development of standardized methods for preclinical efficacy testing and definitive efficacy testing of candidate therapeutics using best practices and rigorous study design. An essential feature will be a multidisciplinary approach that brings together experts in bioengineering, microfluidics, material science, "omic" sciences, computational biology, disease biology, pathology, electrophysiology, pharmacology, biostatistics and clinical science. Funds from the NIH will be made available through the UG3/UH3 cooperative agreement award mechanism. The initial UG3 phase will support studies to develop in vitro disease models using tissue chip technologies and iPSC and/or primary tissues derived from patients, and functional validation of the models. The UH3 phase will support studies to demonstrate the functional utility of the disease models for identification of novel treatment mechanisms through better understanding of disease biology, drug screening, assessment of candidate therapies for efficacy and safety assessments, and establishing the pre-clinical foundation that will inform clinical trial design. A UG3 project that meets its milestones will be administratively considered by NCATS and other participating ICs and prioritized for transition to the UH3 award. Applicants responding to this FOA must address objectives for both the UG3 and UH3 phases. **RFA-TR-16-017**

- **URL:** *http://grants.nih.gov/grants/guide/rfa-files/RFA-TR-16-017.html*

Data Infrastructure Building Blocks
National Science Foundation (NSF)
Due Date: 1/3/2017

The Data Infrastructure Building Blocks (DIBBs) program is an integral part of CIF21. The DIBBs program encourages development of robust and shared data-centric cyberinfrastructure capabilities, to accelerate interdisciplinary and collaborative research in areas of inquiry stimulated by data. DIBBs investments enable new data-focused services, capabilities, and resources to advance scientific discoveries, collaborations, and innovations. The investments are expected to build upon, integrate with, and contribute to existing community cyberinfrastructure, serving as evaluative resources while developments in national-scale access, policy, interoperability and sustainability continue to evolve. Effective solutions will bring together cyberinfrastructure expertise and domain researchers, to ensure

that the resulting cyberinfrastructure address researchers data needs. The activities should address the data challenges arising in a disciplinary or cross-disciplinary context. The projects should stimulate data-driven scientific discoveries and innovations, and address broad community needs.
This solicitation includes two classes of science data pilot awards:
1. Early Implementations are large "at scale" evaluations, building upon cyberinfrastructure capabilities of existing research communities or recognized community data collections, and extending those data-focused cyberinfrastructure capabilities to additional research communities and domains with broad community engagement.
2. Pilot Demonstration address advanced cyberinfrastructure challenges across emerging research communities, building upon recognized community data collections and disciplinary research interests, to address specific challenges in science and engineering research.

Prospective PIs should be aware that DIBBs is a multi-directorate activity, and are encouraged to submit proposals that have broad, interdisciplinary interest. PIs are encouraged to refer to NSF core program descriptions, Dear Colleague Letters, and recently posted initiatives on directorate and divisional home pages to gain insight as to the priorities for the relevant area(s) of science and engineering in which their proposasl may be responsive. It is strongly recommended that a prospective PI contact a Cognizant Program Officer in the organization(s) closest to the major disciplinary impact of the proposed work to ascertain whether the the scientific focus and budget of the proposed work are appropriate for this solicitation. **NSF 17-500**

- **URL:** *https://www.nsf.gov/pubs/2017/nsf17500/nsf17500.htm*

Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP)

National Science Foundation (NSF)

Due Date: 2/8/2017

Critical infrastructures are the mainstay of our nation's economy, security and health. These infrastructures are interdependent. They are linked to individual preferences and community needs. For example, the electrical power system depends on the delivery of fuels to power generating stations through transportation services, the production of those fuels depends in turn on the use of electrical power, and those fuels are needed by the transportation services. Social networks, interactions, and policies can enable or hinder the successful creation of resilient complex adaptive systems.

The goals of the Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP) solicitation are to:
(1) foster an interdisciplinary research community of engineers, computer and computational scientists and social and behavioral scientists, that creates new approaches and engineering solutions for the design and operation of infrastructures as processes and services;

(2) enhance the understanding and design of interdependent critical infrastructure systems (ICIs) and processes that provide essential goods and services despite disruptions and failures from any cause, natural, technological, or malicious;
(3) create the knowledge for innovation in ICIs so that they safely, securely, and effectively expand the range of goods and services they enable; and (4) improve the effectiveness and efficiency with which they deliver existing goods and services.

These goals lead to the following specific objectives for this solicitation:
1. To create new knowledge, approaches, and solutions to increase resilience, performance, and readiness in ICIs. The solutions may emerge primarily from advances in cyber (computing, information, computational, sensing and communication), engineering, or societal (behavioral, economic, organizational) elements of ICIs, although proposals must integrate research across all three elements.
2. To create theoretical frameworks and multidisciplinary models of ICIs, processes and services, capable of analytical prediction of complex behaviors, in response to system and policy changes.
3. To develop frameworks to understand interdependencies created by the interactions between the physical, the cyber (computing, information, computational, sensing and communication), and social, behavioral and economic elements of ICIs. These could include, but are not limited to, software frameworks for modeling and simulation using advanced cyber infrastructures, management, monitoring and real-time control of interdependent ICIs and novel software engineering methodologies.
4. To study socioeconomic, political, legal and psychological obstacles to improving ICIs and identifying strategies for overcoming those obstacles.
5. To undertake the creation, curation or use of publicly accessible data on infrastructure systems and processes, whether in the context of explanation, prediction or modeling.

The CRISP solicitation seeks to fund projects likely to produce new knowledge that can contribute to making ICI services more effective, efficient, dependable, adaptable, resilient, safe, and secure, taking into account the human systems in which they are embedded. Successful proposals are expected to study multiple infrastructures focusing on them as interdependent systems that deliver services, enabling a new interdisciplinary paradigm in infrastructure research. To meet the interdisciplinary criterion, proposals must broadly integrate across engineering, computer, information and computational science, and the social, behavioral and economic sciences. **NSF 16-618**

- **URL:** *https://www.nsf.gov/pubs/2016/nsf16618/nsf16618.htm*

NEW FACULTY / INVESTIGATOR

AFAR Research Grants for Junior Faculty
American Federation for Aging Research (AFAR)
Due Date: 12/15/2016

AFAR provides awards to junior faculty (M.D.s and Ph.D.s) to conduct research that will serve as the basis for longer term research efforts. AFAR-supported investigators study a broad range of biomedical and clinical topics including the causes of cellular senescence, the role of estrogen in the development of osteoporosis, the genetic factors associated with Alzheimer's disease, the effects of nutrition and exercise on the aging process, and much more. The major goal of this program is to assist in the development of the careers of junior investigators committed to pursuing careers in the field of aging research. AFAR supports research projects concerned with understanding the basic mechanisms of aging. Projects investigating age-related diseases are also supported, especially if approached from the point of view of how basic aging processes may lead to these outcomes. Projects concerning mechanisms underlying common geriatric functional disorders are also encouraged, as long as these include connections to fundamental problems in the biology of aging. Projects that deal strictly with clinical problems such as the diagnosis and treatment of disease, health outcomes, or the social context of aging are not eligible.

Examples of potentially fundable areas of research include, but are not limited to:

- Aging and immune function
- Stem cell aging
- Inflammation
- Genetic control of longevity
- Neurobiology and neuropathology of aging*
- Metabolic and endocrine changes
- Mechanisms of dementia*
- Invertebrate or vertebrate animal models
- Cardiovascular aging
- Aging and cellular stress response

- **URL:** *http://www.afar.org/research/funding/afar-research-grants/*

Guggenheim Fellowship
Smithsonian Institution (SI) - National Air and Space Museum
Due Date: 1/15/2017

The Guggenheim Fellowships are competitive in-residence fellowships (residence in the Washington, DC metropolitan area during the Fellowship term is a requirement of the Fellowship) for pre- or postdoctoral research in aviation and space history. Candidates are encouraged to pursue programs of research and writing that support publication of works that are scholarly in tone and substance and

intended for publication as articles in peer-reviewed journals or in book form from a reputable publisher (in the case of post postdoctoral applicants) or in a doctoral dissertation (in the case of pre-docs). Each fellow will work closely with staff members who have similar interests. Staff members of the Aeronautics Department currently conduct research into aviation history including such themes as the growth and impact of aeronautics on society; the evolution of aircraft technology; and the development of air transport and military aviation. The department emphasizes both U.S. and international aspects of aviation history. Members of the Space History Department conduct research in the history of post-war science and technology and the history of space flight, and have written major works on the history of rocketry and the origins of space science. ***Applicants who have received a Ph.D. degree or equivalent within seven years of the beginning of the Fellowship period are eligible to apply for a Postdoctoral Guggenheim Fellowship.***

- **URL:** *https://airandspace.si.edu/support/get-involved/fellowships/guggenheim*

Early Career Research Grants
W.E. Upjohn Institute for Employment Research
Due Date: 2/1/2017

These grants are intended to provide resources for junior faculty to carry out policy-related research on labor market issues. The Institute encourages research proposals on all issues related to labor markets and public workforce policy. Early Career Research Award recipients are expected to write a research paper based on the funded work; submit the paper to the Institute's working paper series; submit the paper to a peer-reviewed journal; and prepare a synopsis of the research for possible publication in the Institute's newsletter, Employment Research.

- **URL:** *http://www.upjohn.org/about-us/news-information/grant-opportunities*

INTERNATIONAL

Capacity-Building Program for U.S. Undergraduate Study Abroad
Partners of the Americas
Due Date: 12/19/2016

Study abroad is a transformative experience that provides young Americans with the skills and knowledge they need to contribute to a global society, solve global challenges, and compete in a global economy; however some U.S. Higher Education Institutions (HEIs) lack the capacity to offer this opportunity to undergraduate students. The U.S. Department of State and Partners of the Americas are pleased to announce Capacity Building Grants for U.S. Undergraduate Study Abroad, which are designed to create or expand the capacity of U.S. HEIs to administer study abroad programs under diversity goals, whether broadening the student population who studies abroad and/or the destinations in which they study. These grants are also intended to allow U.S. institutions to collaborate with and help expand the capacity of overseas HEIs to provide academic programs for U.S. undergraduate students. Capacity Building Grants for U.S. Undergraduate Study Abroad further the State Department's mission of expanding and diversifying U.S. study abroad by enhancing U.S. HEIs' capacity to send their students overseas for academic credit, internships, or other experiential learning opportunities.

- **URL:** *http://www.partners.net/capacity-building-grants*

SOCIAL & BEHAVIORAL SCIENCES

SBE Postdoctoral Research Fellowships (SPRF)
National Science Foundation (NSF)
Due Date: 11/14/2016, 10/9/2017

The Directorate for Social, Behavioral and Economic Sciences (SBE) offers Postdoctoral Research Fellowships in two tracks: (i) Broadening Participation (SPRF-BP), and (ii) Interdisciplinary Research in Behavioral and Social Sciences (SPRF-IBSS). The National Science Foundation offers postdoctoral research fellowships to provide opportunities for recent doctoral graduates to obtain additional training, to gain research experience under the sponsorship of established scientists, and to broaden their scientific horizons beyond their undergraduate and graduate training. Postdoctoral fellowships are further designed to assist new scientists to direct their research efforts across traditional

disciplinary lines and to avail themselves of unique research resources, sites, and facilities, including at foreign locations. NSF seeks to promote the participation of scientists from all segments of the scientific community, including those from under-represented groups, in its research programs and activities; the postdoctoral period is considered to be an important level of professional development in attaining this goal. The goal of the SBE Postdoctoral Research Fellowship (SPRF) program is to enhance the participation of under-represented groups in science and engineering; promote interdisciplinary research; and encourage doctoral-level scientists (who are not yet in full-time positions) to take advantage of the two-year fellowships to prepare for scientific careers in academia, industry or private sector, and government. The Directorate for Social, Behavioral and Economic Sciences (SBE) supports research in a broad range of disciplines and in interdisciplinary areas through its Behavioral and Cognitive Sciences (BCS) Division, Social and Economic Sciences (SES) Division, SBE Office of Multidisciplinary Activities (SMA), and National Center for Science and Engineering Statistics (NCSES). The prospective PI-teams (that is, Fellowship Candidate, Sponsoring Scientist (Mentor) and co-Mentors) should visit the web pages hyperlinked in this section to get detailed information of the research fields/themes/topics supported by the SBE Directorate. Any research field within the purview of the SBE sciences, as described in the above web sites, would be welcome. In the case of interdisciplinary research, at least one of the component fields should be within the SBE sciences. A particular, but not exclusive list of topics can be found in an SBE published report entitled "Rebuilding the Mosaic". This report proposes four major topic areas of interest: population change; sources of disparities, for example in social, economic, or health contexts, and processes that alleviate those disparities; communication, language, and linguistics; and technology, new media, and social networks. These interest areas have been condensed from a lengthy and extensive process of community input.
This SPRF program offers two tracks of Fellowships. For both of these tracks, proposals are encouraged from a wide range of doctoral-level investigators including those from groups that continue to be under-represented in their field. Some proposals may contain elements of both tracks; for example, an interdisciplinary proposal may focus on the science of broadening participation. In such cases it will be up to the Fellowship Candidate to choose one dominant track. **NSF 16-590**

- **URL:** *https://www.nsf.gov/pubs/2016/nsf16590/nsf16590.htm*

James McKeen Cattell Fund Fellowships
Cattell Fund, James McKeen
Due Date: 1/15/2017

The James McKeen Cattell Fund Fellowships for psychologists provide funds to supplement the regular sabbatical allowance provided by the recipients' home institutions. Awards are available to psychologists who are faculty members at colleges and universities in the United States and Canada, and are eligible, according to the regulations of their own institutions, for a sabbatical leave or its

equivalent. Candidates are eligible for an award if they are currently tenured or will have formal university or college confirmation that they will be tenured by February 1, following the Fund's submission deadline.

- **URL:** *http://www.cattell.duke.edu/index.html*

Political Science Program
National Science Foundation (NSF)
Due Date: 1/17/2017, 8/15/2017

The program supports scientific research that advances knowledge and understanding of citizenship, government, and politics. Research proposals are expected to be theoretically motivated, conceptually precise, methodologically rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institutions. In recent years, program awards have supported research projects on bargaining processes; campaigns and elections, electoral choice, and electoral systems; citizen support in emerging and established democracies; democratization, political change, and regime transitions; domestic and international conflict; international political economy; party activism; and political psychology and political tolerance. The program also has supported research experiences for undergraduate students and infrastructural activities, including methodological innovations, in the discipline. **PD 98-1371**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5418*

Grants
Paralyzed Veterans of America (PVA) - PVA Education Foundation
Due Date: 2/1/2017

The Foundation was created in 1976 to fund innovative educational projects designed to benefit individuals with spinal cord injury or diseases and their families, caregivers, and healthcare professionals. Proposals submitted for consideration of funding should be designed to educate, serve, and benefit entire communities of individuals with spinal cord injury or diseases of the spinal cord rather than just individual project participants. Approved proposals should have the potential to provide broad based educational opportunities rather than limited benefits to specific project participants. Potential replication of project proposals and effective dissemination plans are key elements of any proposal in order to achieve maximum educational benefit of Board approved and funded projects.

FUNDING CATEGORIES - The Foundation generally supports five types of projects:

1. Consumer, Caregiver, and Community Education

- Demonstration projects that seek to improve the health, independence, and quality of life of individuals with spinal cord injury or disease (SCI/D).

2. Professional Development and Education

- Programs that improve the knowledge and competencies of professionals providing health care and related services to the SCI/D community; or
- Fellowship/traineeship programs for professionals providing health care and related services to the SCI/D community.

3. Research Utilization and Dissemination

- Projects that translate research findings in to practice.

4. Assistive Technology

- Demonstration projects that improve the identification, selection, and use of assistive devices by people with SCI/D.

5. Conferences and Symposia

- Meetings that provide education and opportunities for collaboration among members of the SCI/D community.

- **URL:***http://www.pva.org/site/c.ajIRK9NJLcJ2E/b.6305829/k.6E40/PVA_Education_Foundation.htm*

STUDENTS

Mellon Fellowships for Dissertation Research in Original Sources

Council on Library and Information Resources (CLIR)

Due Date: 12/2/2016

The purposes of this fellowship program are to:

- help junior scholars in the humanities and related social science fields gain skill and creativity in developing knowledge from original sources;
- enable dissertation writers to do research wherever relevant sources may be, rather than just where financial support is available;
- encourage more extensive and innovative uses of original sources in libraries, archives, museums, historical societies, and related repositories in the U.S. and abroad; and
- provide insight from the viewpoint of doctoral candidates into how scholarly resources can be developed for access most helpfully in the future.

For purposes of this program, eligible fields of the humanities and related elements of the social sciences include the following:

- anthropology
- area studies
- art and architectural history
- classics
- comparative literature
- critical theory
- cultural studies
- drama, dance or theater
- economic history
- ethnic studies
- history
- women's studies
- history and philosophy of mathematics
- history and philosophy of science and medicine
- language and cultural linguistics
- literature in any language
- music history
- musicology
- philosophy
- political theory
- religion (exclusive of theological training for the ministry)
- rhetoric
- sociology
- interdisciplinary studies involving fields above

- **URL:** *https://www.clir.org/fellowships/mellon/mellon.html*

Dissertation Fellowship Program in Retirement Research

Boston College (BC) - Center for Retirement Research (CRR) at Boston College

Due Date: 1/31/2017

The Center for Retirement Research at Boston College sponsors the annual Dissertation Fellowship Program in the field of retirement income research. The program is funded by the U.S. Social Security

Administration and provides funding opportunities for doctoral candidates to pursue cutting-edge research on retirement issues. Doctoral candidates from all academic disciplines are encouraged to submit a proposal. Grant recipients may be required to present their work to the Social Security Administration in Washington, DC or Baltimore. The Center was established in 1998 through a grant from the Social Security Administration. The Center's mission is to produce first-class research and forge a strong link between the academic community and decision makers in the public and private sectors around an issue of critical importance to the nation's future. To achieve this mission, the Center sponsors a wide variety of research projects, transmits new findings to a broad audience, trains new scholars, and broadens access to valuab le data sources . Since its inception, the Center has established a reputation as an authoritative source of information on all major aspects of the retirement income and policy debate.

Priority areas include:
- Social Security
- Macroeconomic analyses of Social Security
- Wealth and retirement income
- Program interactions
- International research
- Demographic research

- **URL:** *http://crr.bc.edu/about-us/grant-programs/dissertation-fellowship-program-2/*