

Funding Bulletin

September 23rd, 2016 (Vol. 3, No. 25)

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

[WORKSHOPS](#)

[NOTICES](#)

[INTERNAL OPPORTUNITIES](#)

[LIMITED SUBMISSIONS](#)

[GENERAL](#)

[ARTS & HUMANITIES](#)

[ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES](#)

[HEALTH, LIFE & EARTH SCIENCES](#)

[MULTIPLE DISCIPLINES](#)

[NEW FACULTY/INVESTIGATOR](#)

[SOCIAL & BEHAVIORAL SCIENCES](#)

[STUDENTS](#)

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
Compliance: Export, Conflict of Interest	Oct. 5	2:30 – 4:00 p.m.	409E Jardine	Conflict of Interest Policies, Export 101 RSVP through WSU My Training Portal.
Technology Transfer & Intellectual Property: WSU Ventures	Oct. 14	1:00 – 2:30 p.m.	405 Jardine	Everyone has intellectual property – what do I own, what does the University own, how can I protect it? RSVP through WSU My Training Portal.
IRB Open Lab	Oct. 17	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. <i>This is a come and go lab with no registration required.</i>
Research Compliance Open Lab	Oct. 19	9:00 – 11:00 a.m.	2015 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. <i>This is a come and go lab with no registration required.</i>
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. <i>This is a come and go lab with no registration required.</i>

NOTICES

NIJ Crime Forecasting Challenge

Are you ready to forecast? The initial releases of the Call-for-Service (CFS) data are now available. Why compete:

1. Awards totaling **\$1,200,000** will be made at the conclusion of the challenge.
2. Winners will be recognized as crime-data forecasting leaders in a trending market, and will receive widespread recognition through NIJ's participation in events, such as the International Association of Chiefs of Police Annual Conference and Expo in 2017.
3. As part of the broader scientific community, you can help improve law enforcement agencies' ability to respond to crime using data science innovation.

[Review challenge details and begin pulling data.](#)

[Register for a webinar about the Challenge](#) on October 6 from 1-2:00 PM ET and get your questions answered.

INTERNAL OPPORTUNITIES

Multidisciplinary Research Project Awards (MURPA)

Wichita State University

Due Date: 10/7/2016

Applications for Multidisciplinary Research Project Awards (MURPA) are due to the Office of Research and Technology Transfer by Oct. 7 at 5:00 p.m. for grant period, choice of Jan 1 – June 15, 2017 OR May 1 – Aug 31, 2017. Multidisciplinary Research Projects are projects that involve two or more investigators from different disciplines that focus different perspectives and capabilities on complex problems that intersect established areas of study. They are intended as seed money to develop pilot data for proposals to be submitted to governmental agencies, foundations or industries. Application and instructions are available on the research website and may be submitted electronically to proposals@wichita.edu or Campus Box 7.

For more information, visit

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

University Research/Creative Projects (URCA) – Round Two

Wichita State University

Due Date: 10/7/2016

Applications for Round 2 of the University Research/Creative Projects (URCA) are due to the Office of Research and Technology Transfer by Oct. 7 at 5:00 p.m. for grant period Dec 1, 2016 – Dec 31, 2017. URCA's are to retool or reestablish productive research/creative projects agenda. In areas where external funding is available, the URCA may be used as seed money to develop pilot data. Areas where access to external sources is limited may receive special consideration. Grants may be for up to \$4,500 awarded in two separate competitions: New - tenure-eligible faculty in their first or second year of probation to initiate research/creative projects, and Established - tenured faculty or probationary faculty in their 3rd (or more) year of probation to retool or re-establish productive research/creative agenda. Application and instructions are available on the research website and may be submitted electronically to proposals@wichita.edu or Campus Box 7.

For more information, visit

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

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 *twelve* open limited submission competitions:**

(1) Louis Stokes Alliances for Minority Participation (LSAMP)

National Science Foundation (NSF)

Due Date: Internal 9/23/2016; Full Proposal 11/4/2016

Louis Stokes Alliances for Minority Participation (LSAMP) program assists universities and colleges in their efforts to significantly increase the numbers of students matriculating into and successfully

A bi-weekly publication of the Office of Research and Technology Transfer. For additional information or to request a customized funding opportunity search, please contact funding@wichita.edu.

completing high quality degree programs in science, technology, engineering and mathematics (STEM) disciplines in order to diversify the STEM workforce. Particular emphasis is placed on transforming undergraduate STEM education through innovative, evidence-based recruitment and retention strategies, and relevant educational experiences in support of racial and ethnic groups historically underrepresented in STEM disciplines: African Americans, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, and Native Pacific Islanders. The LSAMP program provides funding to alliances that implement comprehensive, evidence-based, innovative, and sustained strategies that ultimately result in the graduation of well-prepared, highly-qualified students from underrepresented groups who pursue graduate studies or careers in STEM. **There are four alliance award types:**

1. **Alliances (Multi-institutional Partnerships):** 5-year projects focused on undergraduate recruitment and retention activities.
2. **Bridge to the Baccalaureate (B2B) Alliances (Alliances with a community college as lead institution):** 3-year projects focused on activities that provide effective educational preparation of community college students for successful transfer to 4-year institutions in STEM.
3. **Bridge to the Doctorate (BD) Activity:** 2-year projects eligible only to existing alliances funded more than 10 consecutive years; these projects are focused on providing post-baccalaureate fellowship support to a cohort of 12 LSAMP students for the first two years of their STEM graduate studies and on providing the necessary academic and research skills that will enable them to successfully earn STEM doctoral degrees and transition into the professoriate and/or STEM workforce.
4. **Pre-Alliance Planning Grants:** Up to 18-month projects that undertake planning activities necessary to form new alliances or regional outreach and knowledge-diffusion centers of excellence.

In this solicitation, the acronym STEM stands for science, technology, engineering, and mathematics that includes biological sciences (except medicine and other clinical fields); physical sciences (including physics, chemistry, astronomy, and materials science); mathematical sciences (including statistics and data science); computer and information sciences; geosciences (including earth and ocean sciences); engineering; and technology areas associated with the preceding disciplines (for example, biotechnology, chemical technology, nanotechnology, engineering technology, information technology). **NSF 15-594 Only one proposal may be submitted by an eligible (lead) institution.**

Important Notes on LSAMP Alliance Projects

The NSF LSAMP Program allows grantees to provide performance-based stipend support to undergraduate students. However, LSAMP is not a student financial aid scholarship program, and thus funds should NOT be used to award scholarships to students. The LSAMP Program does NOT make awards directly to individual students to undertake their education or research activities. Students are encouraged to contact the respective institutions to inquire about whether there are LSAMP programs (including Bridge to the Doctorate) on their campuses. All students receiving stipends/fellowships must be U.S. citizens, U.S. nationals, or permanent residents of the United States. Institutional partners

(including community colleges) in all LSAMP Alliances (including B2B) must be budgeted as sub-awardees unless designated as a lead institution in an alliance. Please contact a LSAMP Team member if your institution does not enter into subaward agreements.

- URL: <http://www.nsf.gov/pubs/2015/nsf15594/nsf15594.htm>

(2) Leadership Education in Adolescent Health (LEAH)

Health Resources & Services Administration (HRSA) - Maternal and Child Health Bureau (MCHB)

Due Date: Internal 9/30/2016; Application 11/10/2016

This announcement solicits applications for the Leadership Education in Adolescent Health (LEAH) Training Program. The purpose of this program is to prepare maternal and child health leaders in adolescent and young adult health within at least five (5) core health disciplines, including medicine, nursing, nutrition, psychology, and social work by providing interdisciplinary leadership training to health professionals at the graduate and postgraduate levels.

LEAH programs accomplish this aim of training the next generation of leaders in these health disciplines and improving the health and well-being of adolescents and young adults by:

- 1) Preparing trainees/fellows for leadership roles in clinical services, research, training, and organization of health services for adolescents and young adults including those with special health care needs;
- 2) Integrating biological, developmental, mental and behavioral health, social, economic, educational, and environmental health training within a public health framework;
- 3) Emphasizing technical assistance, continuing education, and collaboration with state and local public health agencies, education, youth development, and human service agencies and providers with a maternal and child health focus; and
- 4) Developing, enhancing, or improving evidence-based patient-centered, family-involved, culturally competent, community-based care plans and practices for adolescents and young adults.

HRSA-17-029 Multiple applications from an organization are not allowable.

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=288717>

(3) Network for Computational Nanotechnology (NCN)

National Science Foundation (NSF)

Due Date: Internal 9/30/2016; Letters of Intent 11/3/2016; Full Proposals 12/2/2016

The goals of the Network for Computational Nanotechnology (NCN) are to: 1) accelerate the transformation of nanoscience to nanotechnology through the integration of simulation with experimentation; 2) engage an ever-larger and more diverse cyber community sharing novel, high-quality nanoscale computation and simulation research and educational resources; 3) develop open-access, open-source software to stimulate data sharing; and 4) inspire and educate the next-generation workforce. The NCN consists of a stand-alone Cyber Platform, which provides computation, simulation, and education services to over 330,000 researchers, educators, students, and industry members of the nanoscience and engineering community annually worldwide; and Nodes, which develop compelling new computational and simulation tools to disseminate through Cyber Platform (nanoHUB.org) and cultivate communities of users in emerging areas of nanoscale science and engineering. This solicitation will support the next phase of NCN Nodes Programs. Current awards for existing NCN Nodes expire in September 2017. Those who submit proposals in response to this solicitation will need to address the following questions:

- What compelling new nanoscience modeling and computational tool(s) will be developed and how will it advance nanotechnology to meet critical national needs?
- What will the Node undertake to nucleate a community of academic and industry users engaged in the new tool(s) and increase quality and quantity of nanoHUB tools, resources, and usage?
- How will the Node interact productively with the Cyber Platform and other Nodes to augment existing capabilities and ensure seamless and complementary advancement of the NCN's goals?

Content areas of the three new Nodes will be:

- 1. Engineered nanoBIO** - Create integrated computational tools that support new understanding and simulation of biological phenomena from the nanoscale across length scales for the design of devices and systems;
- 2. Hierarchical nanoMFG** - Computation and simulation software to address the challenges of hierarchical nanomanufacturing processes from nanoscale components to devices and systems, and their scale up;
- 3. Nano-Engineered Electronic Device and Module Application Node (NEEDMA)** - Develop computation and simulation tools that can be employed for turning nanoscale science and engineering into applications through the discovery and development of nanoelectronic-based devices and modules with impact on circuit and systems responding to grand challenges.

Proposals will be accepted only for the above Node content areas. A proposal for another Node content area will be returned without review. **NSF 16-593 A university may submit only one proposal per Node content area in this solicitation. Therefore, one university might submit up to three separate Node proposals, but only one to each Node content area.**

- URL: <http://www.nsf.gov/pubs/2016/nsf16593/nsf16593.htm>

(4) Faculty Grants - Course and Program Grants

Lemelson Foundation - VentureWell

Due Date: Internal 9/30/2016; Applications 11/9/2016

VentureWell awards faculty grants to colleges and universities for the purpose of strengthening existing curricular programs and/or building new programs in invention, innovation, and entrepreneurship. Through these grant funds, VentureWell supports creative pedagogical approaches that generate student teams (E-Teams) working on technology solutions to real-world problems. Proposals may include plans for creating or improving an individual course, course sequence, minor, major, certificate program, incubator, accelerator, and other co- and extra-curricular programs. Course & Program grants support courses or programs at the intersection of invention, innovation, and entrepreneurship that lead to the creation and support of E-Teams. **Limit 2 proposals per institution. If more than two are received, only the two received earliest will be reviewed.** Focus areas include but are not limited to:

- General (technology-based) entrepreneurship
- New materials/clean tech/green energy
- Biomedical and healthcare
- Information technology

Innovation is a skill that can and should be taught in universities. With their faculty grants, VentureWell challenges faculty to pioneer new ways to engage their students in the entrepreneurial process. The grants:

- Support new (or help modify existing) courses and programs that lead to the formation of E-Teams - multidisciplinary groups of students, faculty, and mentors working together to bring inventions to market.
- Help students learn by doing-gaining the entrepreneurial skills they need by actually forming a team and trying to make both the technology and business model work.
- Have a strong likelihood of continuing beyond the grant period and becoming part of a campus culture of innovation. To date, 92% of Faculty Grants funded courses and programs report that they are ongoing.

- URL: <http://venturewell.org/facultygrants/>

(5) Major Research Instrumentation Program (MRI): Instrument Acquisition or Development

National Science Foundation (NSF)

Due Date: Internal 9/30/2016; Full Proposals 1/11/2017

The Major Research Instrumentation Program (MRI) serves to increase access to shared scientific and engineering instruments for research and research training in our Nation's institutions of higher

education, not-for-profit museums, science centers and scientific/engineering research organizations. The program provides organizations with opportunities to acquire major instrumentation that supports the research and research training goals of the organization and that may be used by other researchers regionally or nationally. Each MRI proposal may request support for the acquisition (Track 1) or development (Track 2) of a single research instrument for shared inter- and/or intra-organizational use. Development efforts that leverage the strengths of private sector partners to build instrument development capacity at MRI submission-eligible organizations are encouraged. The MRI program assists with the acquisition or development of a shared research instrument that is, in general, too costly and/or not appropriate for support through other NSF programs. The program does not fund research projects or provide ongoing support for operating or maintaining facilities or centers. The instrument acquired or developed is expected to be operational for regular research use by the end of the award period. For the purposes of the MRI program, a proposal must be for either acquisition (Track 1) or development (Track 2) of a single, well-integrated instrument. The MRI program does not support the acquisition or development of a suite of instruments to outfit research laboratories or facilities, or that can be used to conduct independent research activities simultaneously. **NSF 15-504 *The limit on number of proposals per organization is three as described below. If three proposals are submitted, at least one of the proposals must be for instrument development.***

- URL: <http://www.nsf.gov/pubs/2015/nsf15504/nsf15504.htm>

(6) BD2K Research Education Curriculum Development: Data Science Overview for Biomedical Scientists (R25)

National Institutes of Health (NIH)

Due Date: Internal 9/30/2016; Application 12/7/2016

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this BD2K R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nations biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on **Curriculum or Methods Development** in Big Data Science to augment current institutional curricula for the training of predoctoral level biomedical scientists and provide concentrated instruction in the tools, approaches and quantitative analysis concepts in data science. To facilitate the integration of data science into biomedical curricula nationally, this FOA seeks to support a cohort of institutions that will work collaboratively and collectively to produce curricular materials that are findable, accessible, interoperable, and reusable (FAIR). **RFA-ES-16-011 *Only one application per institution is allowed.***

- URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-16-011.html>

(7) Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)

National Science Foundation (NSF)

Due Date: Internal 10/7/2016; Full Proposals 12/9/2016

Biological Field Stations and Marine Laboratories (FSMLs) are off-campus facilities for research and education pertaining to physical and biological phenomena and organisms in the natural habitats of terrestrial, freshwater, and marine ecosystems. FSMLs support environmental and biological research and education by preserving access to study areas and organisms, by providing facilities and equipment in close proximity to those study areas, and by fostering an atmosphere of mutual scientific interest and collaboration in research and education. For FSMLs to fulfill their role in biological research and education, they must offer modern research and educational facilities, equipment, and communications and data management systems for a broad array of users. A significant fraction of the research and education projects that use the proposing facility as a platform for their execution should be in science and engineering fields eligible for support by the National Science Foundation. In recognition of the continuing need for modern facilities and equipment at FSMLs, the NSF invites proposals that address the general goal of FSML improvement. Requests must fall exclusively into one of two classes: Improvement or Planning. Improvement proposals should focus on well-defined projects of major equipment acquisition, data management and communication systems modernization, or physical plant improvement. Planning proposals are for strategic institutional planning for the long term research and education goals of the station. In addition to a clear description of the proposed improvement or planning project, proposals are expected to present a compelling justification based on demonstrated need for the project, and a realistic appraisal of its potential impact on biological and environmental research and education activities at the proposing facility. **NSF 16-506** *Only one proposal may be submitted on behalf of any single facility per round of the FSML competition. This limitation does not prevent a single institution from submitting more than one proposal, as long as each proposal is submitted on behalf of a different eligible facility.*

- URL: <http://www.nsf.gov/pubs/2016/nsf16506/nsf16506.htm>

(8) Research Program

Keck Foundation, W.M.

Due Date: Internal 10/7/2016; Phase 1 Applications 11/1/2016; Invited Full Proposals 2/15/2017

The Research Program seeks to benefit humanity by supporting projects in two specific areas (1) medical research and (2) science and engineering, that are distinctive and novel in their approach, question the prevailing paradigm, or have the potential to break open new territory in their field. Past grants have been awarded to major universities, independent research institutions, and medical

schools to support pioneering biological and physical science research and engineering, including the development of promising new technologies, instrumentation or methodologies. The Foundation strives to fund endeavors that are distinctive and novel in their approach. It encourages projects that are high-risk with the potential for transformative impact. "High-risk" comprises a number of factors, including questions that push the edge of the field, present unconventional approaches to intractable problems, or challenge the prevailing paradigm. "Transformative" may mean creation of a new field of research, development of new instrumentation enabling observations not previously possible, or discovery of knowledge that challenges prevailing perspectives. **Applicants may submit one request per grant cycle to each of the foundation's program areas for which they are eligible: Medical Research, Science and Engineering Research, Undergraduate Education and Southern California. Initial contact from a multi-unit organization (such as a college, university or agency branch location) must be coordinated through the institution's central development office.**

- URL: <http://www.wmkeck.org/grant-programs/research>

(9) 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>

(10) 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>

(11) 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 (either as a single institution or as subawardee or a member of a Collaborative Research project) 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>

(12) 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	Internal Deadline	Letter of Intent	Preliminary Proposal	Full Proposal
* Denotes limited submission				
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

Materials-Based Research

Center for Craft, Creativity & Design (CCCD)

Due Date: 11/16/2016

Founded in 1996, the [Center for Craft, Creativity & Design](http://www.craftcreativitydesign.org) is a national nonprofit organization dedicated to advancing the field of craft by fostering new ideas, funding craft scholarship, and backing the next generation of makers, curators, and critics. Each year, CCCD administers the distribution of over a quarter million dollars in grants to those working in the craft field. As part of this mission, CCCD has issued a Request for Proposals for a new pilot grant initiative that aims to support the expanding definition of craft-based research and promote collaboration between the fields of craft, science, technology, engineering, and mathematics. Through the Materials-Based Research Grant program, grants of up to \$15,000 over eighteen months will be awarded to interdisciplinary teams of researchers to encourage mutually beneficial innovation in craft and STEM fields, with a focus on materials and process-based research. The teams should include one maker and one professional working in a STEM-based field (e.g., material science, manufacturing, environmental studies, medicine, structural engineering, etc.). This can include academics, researchers, scientists, full-time makers, or other skilled specialists. See the CCCD website for complete program guidelines and application instructions.

- **URL:**http://www.craftcreativitydesign.org/wp-content/uploads/2016/09/2017-CRF-%E2%80%93-MBR-Guidelines_Final.pdf

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Science of Learning (SL)

National Science Foundation (NSF)

Due Date: 1/18/2017, 7/12/2017

The Science of Learning program supports potentially transformative basic research to advance the science of learning. The goals of the SL Program are to develop basic theoretical insights and fundamental knowledge about learning principles, processes and constraints. Projects that are integrative and/or interdisciplinary may be especially valuable in moving basic understanding of learning forward but research with a single discipline or methodology is also appropriate if it addresses basic scientific questions in learning. The possibility of developing connections between proposed research and specific scientific, technological, educational, and workforce challenges will be considered as valuable broader impacts, but are not necessarily central to the intellectual merit of proposed research. The program will support research addressing learning in a wide range of domains at one or more levels of analysis including: molecular/cellular mechanisms; brain systems; cognitive affective, and behavioral processes; and social/cultural influences. The program supports a variety of methods including: experiments, field studies, surveys, secondary-data analyses, and modeling. **PD 16-004Y**

- URL: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5567

Digital Information Technology - Data and Computational Research

Sloan Foundation, Alfred P.

Due Date: Letters of Inquiry accepted on a continuous basis

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

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

ARTS & HUMANITIES

Museums for America

Institute of Museum and Library Services (IMLS)

Due Date: 12/1/2016

The Museums for America (MFA) program supports projects that strengthen the ability of an individual museum to serve its public. **MFA has three project categories:**

Learning Experiences-

IMLS supports the unique ability of museums to empower people of all ages through experiential learning and discovery. Successful projects provide high-quality, inclusive educational opportunities that address particular audience needs.

Community Anchors-

IMLS promotes the role of museums as essential partners in addressing the needs of their communities by leveraging their expertise, knowledge, physical space, technology, and other resources. These projects strive to create a better quality of life within communities.

Collections Stewardship-

IMLS supports the exemplary management, care, and conservation of museum collections. Projects address a clearly articulated and well-documented need and contribute to the long-term preservation of materials entrusted to the museum's care.

- URL: <https://www.ims.gov/grants/available/museums-america>

National Leadership Grants (NLG) for Museums

Institute of Museum and Library Services (IMLS)

Due Date: 12/1/2016

National Leadership Grants for Museums support projects that address critical needs of the museum field and that have the potential to advance practice in the profession so that museums can improve services for the American public. **National Leadership Grants for Museums has three project categories:**

Learning Experiences-

IMLS supports the unique ability of museums to open the door to meaningful knowledge and enhanced inquiry skills for people of all ages and backgrounds through multi-sensory learning, discovery, critical thinking, and problem solving. IMLS welcomes applications for projects that position museums as teaching and inquiry-focused institutions within today's formal and informal learning ecosystem. Successful projects will help the museum field provide high-quality, inclusive educational opportunities that address particular audience needs. We encourage projects that are based upon current research

in cognitive and behavioral science as well as best practices developed in museums and other informal learning environments.

Community Anchors-

IMLS promotes the role of museums as essential partners in addressing the needs of their communities by leveraging their expertise, knowledge, physical space, technology, and other resources to identify and implement solutions. By strengthening museums' capacities for civic engagement, these projects contribute to the creation of livable, sustainable communities. Museums have a role to play providing civic and cultural engagement, facilitating lifelong learning, promoting digital inclusion, and supporting economic vitality through programming and services. We envision museums to be highly collaborative, adopt co-creating strategies, and engage with a wide variety of cross-sector stakeholders to accomplish a sustained collective impact goal.

Collections Stewardship-

IMLS supports the exemplary management, care, and conservation of, as well as broad access to and use of, museum collections. Investments designed to contribute to the long-term preservation of materials and specimens are complemented by skill-building and capacity-expanding programs for museum staff, volunteers, and interns. IMLS welcomes applications for projects that help the museum field address state-of-the-art collections care and collections-information management, curation, preventive conservation, conservation treatments, database creation and enhancement, digitization, and the use of digital tools to facilitate discovery and deepen engagement with museum collections. We welcome projects that demonstrate cross-sector and cross-disciplinary collaboration with libraries, archives, and other collecting institutions. **NLG-MUSEUMS-FY17**

- URL: <https://www.ims.gov/grants/available/national-leadership-grants-museums>

Literature Fellowships: Translation Projects

National Endowment for the Arts (NEA)

Due Date: 12/6/2016

Through fellowships to published translators, the Arts Endowment supports projects for the translation of specific works of prose, poetry, or drama from other languages into English. It encourages translations of writers and of work that are not well represented in English translation. All proposed projects must be for creative translations of literary material into English. The work to be translated should be of interest for its literary excellence and value. Priority will be given to projects that involve work that has not previously been translated into English. **2017NEA03LFTP**

- URL: <https://www.arts.gov/grants-individuals/translation-projects>

Digital Humanities Advancement Grants (DHAG)

National Endowment for the Humanities (NEH) - Office of Digital Humanities (ODH)

Due Date: 1/11/2017

Digital Humanities Advancement Grants (DHAG) support digital projects throughout their lifecycles, from early start-up phases through implementation and long-term sustainability. Experimentation, reuse, and extensibility are hallmarks of this grant category, leading to innovative work that can scale to enhance research, teaching, and public programming in the humanities. This program combines the former Digital Humanities Start-Up Grants and Digital Humanities Implementation Grants programs; the combined program is offered twice per year. Proposals are welcome for digital initiatives in any area of the humanities. Through a special partnership, the Institute of Museum and Library Services (IMLS) anticipates providing additional funding to this program to encourage innovative collaborations between museum or library professionals and humanities professionals to advance preservation of, access to, use of, and engagement with digital collections and services. Through this partnership, IMLS and NEH may jointly fund some DHAG projects that involve collaborations with museums and/or libraries.

Digital Humanities Advancement Grants may involve:

- creating or enhancing experimental, computationally-based methods or techniques that contribute to the humanities;
- pursuing scholarship that examines the history, criticism, and philosophy of digital culture and its impact on society, or explores the philosophical or practical implications and impact of digital humanities in specific fields or disciplines; or
- revitalizing and/or recovering existing digital projects that promise to contribute substantively to scholarship, teaching, or public knowledge of the humanities.

Grants are available for early-stage planning, development, and implementation. Applicants must state in their narrative which funding level they seek. Applicants should carefully choose the funding level appropriate to the needs of the proposed project. See beneath the Award Information heading below for more details.

- **URL:** <http://www.neh.gov/grants/odh/digital-humanities-advancement-grants>



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Lotte Lenya Competition

Weill Foundation for Music, Inc., Kurt

Due Date: 1/23/2017

The competition recognizes talented young singer/actors who are dramatically and musically convincing in repertoire ranging from opera/opera to contemporary Broadway scores, with a focus on the works of Kurt Weill. More than a vocal competition, the Lotte Lenya Competition is a theater singing competition that emphasizes wide-ranging repertoire and the acting of songs and arias within a dramatic context.

- URL: <http://www.kwf.org/pages/lc-guidelines.html>

ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

Graduate Research Fellowship in Science, Technology, Engineering, and Mathematics

U.S. Dept. of Justice (DOJ) - Office of Justice Programs (OJP) - National Institute of Justice (NIJ)

Due Date: 11/21/2016

The Graduate Research Fellowship in Science, Technology, Engineering, and Mathematics (GRF-STEM) provides awards to accredited academic institutions to support graduate research leading to doctoral degrees in topic areas that are relevant to ensuring public safety, preventing and controlling crime, and ensuring the fair and impartial administration of criminal justice in the United States. The ultimate goal of this solicitation is to increase the pool of researchers who are involved in providing STEM-based solutions to problems that affect criminal justice policy and practice in the United States. Through the GRF-STEM program, NIJ supports STEM graduate education by investing in academic institutions that support outstanding and promising doctoral students. **NIJ-2017-10740**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?opId=288806>

Small Business Innovation Research Program Phase I Solicitation (SBIR)

National Science Foundation (NSF)

Due Date: 12/6/2016

NSF's SBIR program provides non-dilutive funds for early-stage research and development (R&D) at small businesses. This R&D should be based on innovative, transformational technology with potential for substantial commercial and/or societal benefits. The program invites proposals from small businesses across a broad range of science and engineering disciplines. The Small Business Innovation Research (SBIR) Program is intended to stimulate technological innovation in the private sector by strengthening the role of small business concerns in meeting Federal research and development needs, increasing the commercial application of federally supported research results, and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. The SBIR/STTR program solicits proposals from the small business sector consistent with NSF's mission. The program is governed by Public Law 112-81 (SBIR/STTR Reauthorization Act of 2011). SBIR/STTR policy is provided by the Small Business Administration (SBA) through the SBA Policy Directive. A main purpose of the legislation is to stimulate technological innovation and increase private sector commercialization. The NSF SBIR/STTR program is therefore in a unique position to meet both the goals of NSF and the purpose of the SBIR/STTR legislation by transforming scientific discovery into both social and economic benefit, and by emphasizing private sector commercialization. Accordingly, NSF has formulated broad solicitation topics that conform to the high-technology investment sector's interests. **NSF 16-599**

NSF SBIR/STTR Technology Topic Areas:

- Educational Technologies and Applications (EA);
- Information Technologies (IT);
- Internet of Things (I);
- Semiconductors (S) and Photonic (PH) Devices and Materials;
- Electronic Hardware, Robotics and Wireless Technologies (EW);
- Advanced Manufacturing and Nanotechnology (MN);
- Advanced Materials and Instrumentation (MI);
- Chemical and Environmental Technologies (CT);
- Biological Technologies (BT); and
- Smart Health (SH) and Biomedical (BM) Technologies.

- **URL:** <https://nsf.gov/pubs/2016/nsf16599/nsf16599.htm>

Small Business Technology Transfer Program Phase I Solicitation (STTR)

National Science Foundation (NSF)

Due Date: 12/6/2016

The STTR program is congressionally mandated and intended to support scientific excellence and technological innovation through the investment of Federal research funds to build a strong national economy by: stimulating technological innovation in the private sector; strengthening the role of small business concerns in meeting federal research and development needs; increasing the commercial application of federally supported research results; and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. The STTR program solicits proposals from the small business sector consistent with NSF's mission to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense.

The program is governed by Public Law 112-81 (SBIR/STTR Reauthorization Act of 2011). SBIR/STTR policy is provided by the Small Business Administration (SBA) through the SBA Policy Directive. A main purpose of the legislation is to stimulate technological innovation and increase private sector commercialization. The NSF SBIR/STTR program is therefore in a unique position to meet both the goals of NSF and the purpose of the SBIR/STTR legislation by transforming scientific discovery and innovation into both social and economic benefit, and by emphasizing private sector commercialization. The NSF SBIR/STTR program places a strong emphasis on private-sector commercialization. Because the program has no topical focus, the NSF offers very broad solicitation topics that are intended to permit as many eligible science- and technology-based small businesses as possible to compete for these funds. The topics are detailed on the SBIR/STTR website. **NSF 16-600**

- URL: <http://www.nsf.gov/pubs/2016/nsf16600/nsf16600.htm>

NSF/Intel Partnership on Computer Assisted Programming for Heterogeneous Architectures (CAPA)

National Science Foundation (NSF) / Intel Labs for University Collaboration Office

Due Date: 12/15/2016

An emerging trend in hardware platforms is that of *architectural heterogeneity*. While modern central processing units (CPUs) provide a flexible set of hardware resources and rich instruction sets for implementing a broad spectrum of compute tasks, specialized workloads have motivated the introduction of alternative hardware architectures to accelerate operations using specialized circuit design and additional parallelism. Some examples of such hardware include graphical processing units (GPUs), digital signal processors (DSPs), programmable accelerators, and customizable field programmable gate arrays (FPGAs). Meanwhile, CPU designs have grown in diversity also, with considerable variation in number of cores, memory hierarchy, core organization, inter-core communication, and vector instruction sets. The trend toward data centers as a new computing



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platform adds even more complexity. Target architectures now can include thousands of geographically distributed computing elements, varying communication speeds, complex storage hierarchies, and a diverse set of underlying hardware platforms. Software development is now transitioning from a specialized practice by a small number of experts to an everyday skill for a broad spectrum of non-specialists. But at the same time, the increasing complexity and diversity of programming models and hardware platforms requires specialized knowledge to develop and maintain efficient software solutions. The result is a widening gap between programmers with general skills and specialized knowledge required to effectively utilize today's heterogeneous hardware platforms. Many platform types fail to be utilized to their full potential, and the performance and energy efficiency gains needed to solve the next frontier of computing challenges fail to be realized. To efficiently utilize the computing power of future computer architectures without specialized expertise will require a transformational leap in software development methodologies. The NSF/Intel Partnership on Computer Assisted Programming for Heterogeneous Architectures (CAPA) aims to address the problem of effective software development for diverse hardware architectures through groundbreaking university research that will lead to a significant, measurable leap in software development productivity by partially or fully automating software development tasks that are currently performed by humans. The main research objectives for CAPA include programmer effectiveness, performance portability, and performance predictability. In order to address these objectives, CAPA seeks research proposals that explore (1) programming abstractions and/or methodologies that separate performance-related aspects of program design from how they are implemented; (2) program synthesis and machine learning approaches for automatic software construction that are demonstrably correct; (3) advanced hardware-based cost models and abstractions to support multi-target code generation and performance predictability for specified heterogeneous hardware architectures; and (4) integration of research results into principled software development practices. **NSF 16-606**

- **URL:**http://www.nsf.gov/pubs/2016/nsf16606/nsf16606.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Digital Information Technology - Data and Computational Research

Sloan Foundation, Alfred P.

Due Date: Letters of Inquiry accepted on a continuous basis

From the natural sciences to the social sciences to the humanities to the arts, the availability of more data and cheaper computing is transforming research. As costs for sensors, sequencing, and other forms of data collection decline, researchers can generate data at greater and greater scale, relying on parallel increases in computational power to make sense of it all and allowing the investigation of phenomena too large or complex for conventional observation. Grants in the Data and Computational Research sub-program aim to help researchers develop tools, establish norms, and build the institutional and social infrastructure needed to take full advantage of these important developments

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in data-driven, computation-intensive research. Emphasis is placed on projects that encourage access to and sharing of scholarly data, that promote the development of standards and taxonomies necessary for the interoperability of datasets, that enable the replication of computational research, and that investigate models of how researchers might deal with the increasingly central role played by data management and curation. The Data and Computational Research sub-program is a sub-program of the Foundation's Digital Information Technology program, which seeks to better our understanding of the relationship between technology, information, and society, primarily through research on and the development of digital information technology for the conduct of scholarly research and public engagement with knowledge.

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

Solar and Planetary Research Grants

National Science Foundation (NSF)

Due Date: Full Proposals Accepted Anytime

The Solar and Planetary Research Grants (SPG) Program provides individual investigator and collaborative research grants for observational, theoretical, laboratory, and archival data studies in the science of our solar system and extrasolar planetary systems. Proposals for projects and tools that enable and enhance research in those areas may also be submitted. Proposals addressing the astronomy and astrophysics of stars, our galaxy, external galaxies, and cosmology will be handled under a companion NSF solicitation, NSF 16-574, Astronomy and Astrophysics Research Grants (AAG), not under the SPG Program. Proposals that address planet formation within circumstellar disks are appropriate for this SPG Program; proposals that address star formation are better directed to the AAG Program and will not be considered by the SPG Program. Proposals submitted to one of these two programs, and deemed more appropriate for the other program, will be routed to the other program and considered during the next proposal submission season for that program. Potential proposers are cautioned that this could delay a proposal considered more appropriate to the AAG Program for up to a year. Proposals that are solely or predominantly for the acquisition, analysis, or interpretation of space-based data from NASA-supported missions will be returned without review. **NSF 16-602**

- URL: <http://www.nsf.gov/pubs/2016/nsf16602/nsf16602.htm>

Broad Agency Announcement for Advanced Aircraft Compatibility Science and Technology Expansion

U.S. Department of Defense (DoD) – Air Force Test Center (AFTC)

Due Date: White Papers accepted any time until October 31, 2019

Notice seeking white papers addressing unique and creative solutions to develop predictive capability of complex mechanical, aerodynamic, acoustical, and electrical phenomena, dynamics and interactions where little or no capability exists, and for advancing models, simulation and analysis in support of all aspects of aircraft-store compatibility beyond those currently in use. Research areas include: Separations; Computational Physical Fit; Computational Fluid Dynamics; Electromagnetic Environmental Effects; Flutter; Stability and Control; Loads; and Ballistics and Safe Escape. **BAA-PZIE-17-0001**

- URL: <https://www.fbo.gov/?s=opportunity&mode=form&id=17e7aef21e432c801a1f1c4bbd526439&tab=core&cvview=0>

HEALTH, LIFE & EARTH SCIENCES

Pediatric Research Grants

Gerber Foundation

Due Date: Concept Paper 12/1/2016; Full Proposal (May grant round), Concept Paper 6/1/2017; Full Proposal 8/15/2017 (November grant round)

The Foundation's mission focuses on the nutrition, care and development of infants and young children. Therefore, grant-making interests are focused on health and/or nutrition-related research having a significant impact on issues facing infants and young children from the first year before birth to age 3. The Foundation is particularly interested in fresh approaches to solving newborn or pediatric problems or emerging issues with a predictable time frame to clinical application. Projects should be focused on issues faced by care providers that, when implemented, will improve the health, nutrition and/or developmental outcomes for infants and young children. **Projects may include:**

- **Etiologic mechanisms of disease**
- **New, improved or less invasive diagnostic procedures**

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- Reduction or elimination of side effects
- Alleviation of symptoms
- New, improved or less invasive therapies, care, or treatments
- Dosage or dosing requirements or mechanisms for drugs, nutrient supplementation or other therapeutic measures (under or overdosing)
- Preventative measures

The Foundation gives priority to projects of national or regional impact. **The foundation offers research grants in the following categories:**

- **PEDIATRIC HEALTH:** Promoting health and preventing or treating disease is the primary focus of this target area. Of particular interest are applied research projects focused on reducing the incidence of serious neonatal and early childhood illnesses, or improving cognitive, social and emotional aspects of development.
- **PEDIATRIC NUTRITION:** These programs respond to a long-time interest of the Foundation in assuring adequate nutrition for infants and young children. Projects include applied research that evaluates the provision of specific nutrients and their related outcomes in infants and young children.
- **ENVIRONMENTAL HAZARDS (NUTRIENT COMPETITORS):** The Foundation is interested in projects that evaluate the effects of environmental hazards on infants and young children. Applied research projects that document the impact of, or ameliorate effects of, environmental hazards on the growth and development of infants and young children are the focus of this area of interest.

- URL: <http://www.gerberfoundation.org/how-to-apply/>

Bridging Grant

Kansas IDeA Network of Biomedical Research Excellence (K-INBRE)

Due Date: 12/1/2016

A Bridging Grant provides interim support to help a project in Cell and Developmental Biology continue for an eligible investigator who has submitted a grant to NIH that was approved on the basis of scientific merit, but fell short of the funding range (**applications with a score below the 40th percentile will be triaged**). These funds should assist in providing the data needed to submit a revised application to NIH.

- URL: <http://www.k-inbre.org/FacultyAwards.html>

Developmental Research Projects Awards (formerly Major Starter Grants)

Kansas IDeA Network of Biomedical Research Excellence (K-INBRE)

Due Date: 12/1/2016

The mission of the NIH-funded Kansas IDeA Network of Biomedical Research Excellence (Kansas INBRE) grant is to strengthen the ability of Kansas researchers to compete effectively for NIH funds by building a “critical mass” of junior and senior investigators as well as undergraduates, graduate students and post-doctoral fellows. Within our scientific research theme of Cell and Developmental Biology, focus areas include reproductive and embryonic development, organogenesis, developmental neuroscience, and cellular and developmental pathologies. We are now seeking to identify four new faculty members to participate as Developmental Research Program Recipients.

- URL: <http://www.k-inbre.org/FacultyAwards.html>

Partnerships for Translational Research Training Award

Kansas IDeA Network of Biomedical Research Excellence (K-INBRE)

Due Date: 12/1/2016

Partnership awards are one-year awards offered for the purpose of facilitating the initiation of clinical/basic science research projects directed toward a translational goal. The awards are meant to support technical assistant salaries together with other research project requirements with the goal of exchanging information, data and technical expertise in a close partnership arrangement. The K-INBRE expects to fund two proposals/year.

- URL: <http://www.k-inbre.org/FacultyAwards.html>

Pilot Study Program

Marsha Rivkin Center for Ovarian Cancer Research

Due Date: 12/1/2016

Funding is often difficult to find for discovery work leading up to the most innovative scientific theories. In order to foster these novel ideas, each year, the Center funds promising pilot studies in ovarian cancer. The discoveries from these studies in turn lay the groundwork for major research initiatives. Data gathered from these studies often allow scientists to in turn further pursue research ideas through highly competitive national government grants necessary to complete these projects. Funding is open to investigator-initiated projects in all areas of ovarian cancer research. In addition, projects designed to analyze data from already funded clinical trials will be considered.

- URL: <http://www.marsharivkin.org/research/apply.html>

Reproductive Sciences - Preterm Birth Initiative (BTBI)

Burroughs Wellcome Fund (BWF)

Due Date: 12/1/2016

The Preterm Birth Initiative was created to increase the understanding of the biological mechanisms underlying parturition and spontaneous preterm birth. The initiative is designed to stimulate both creative individual scientists and multi-investigator teams to approach the problem of preterm birth using creative basic and translation science methods. Molecular and computational approaches such as genetics/genomics, immunology, microbiology, evolutionary biology, mathematics, engineering, and other basic sciences hold enormous potential for new insights independently or in conjunction with more traditional areas of parturition research such as maternal fetal medicine, obstetrics, and pediatrics. The formation of new connections between reproductive scientists and investigators who are involved in other areas will give preterm birth research a fresh and unique look, and stimulate a new workforce to tackle this challenge. Despite medical and technological advances, the rate of preterm births in the United States remains higher today than 20 years ago. Approximately 10 percent of births in the U.S. are considered preterm, which is defined as birth occurring prior to 37 weeks of gestation. Many health and social problems can be attributed to preterm delivery including cerebral palsy, respiratory distress syndrome, chronic lung disease, seizures, learning difficulty, hearing loss, behavioral problems, and others. Preterm birth is currently the leading cause of neonatal morbidity and mortality in children. However, for a medical problem that has such grave health and social consequences little is known about its causes. Proposals should address the biomedical causes and molecular mechanisms underlying (preterm) parturition including but not limited to peri-implantational events, placentation, fetal determinants, fetal-maternal immune responses, biological basis for racial-ethnic disparities, mechanisms relating preterm birth to other adverse pregnancy outcomes, biology of normal labor, genomics, evolutionary influences and other approaches. Proposals seeking to identify biomarkers predicting preterm birth are welcome.

- URL: <http://www.bwfund.org/grant-programs/reproductive-sciences/preterm-birth-initiative>

Health Policy and Administration Projects

American Physical Therapy Association

Due Date: 12/31/2016

The [American Physical Therapy Association](#) is seeking applications for projects that stimulate, encourage, and support research activities that enhance the body of knowledge related to health policy, clinical administration, global health, and the use of technology in physical therapy. The program is administered by the association's [Section on Health Policy & Administration](#). One or two grants of up to \$15,000 will be awarded to new physical therapist investigators or established investigators who are embarking on a research agenda in the areas of physical therapist practice, leadership, administration,

or education. Grants may be renewable (no-cost extension) for up to a year. To be eligible, applicants must be an APTA Health Policy & Administration section member. Collaborative research with non-section members is permissible as long as the principal investigator is a member of the Section on HPA. See the APTA website for complete program guidelines and application instructions.

- URL: <http://www.aptahpa.org/?page=34>

Advancing Patient Safety Implementation Through Safe Medication Use Research (R18)

U.S. Dept. of Health & Human Services (HHS) - Agency for Healthcare Research & Quality (AHRQ)

Due Date: 1/25/2017, 5/25/2017, 9/25/2017 (standard due dates apply)

The Agency for Healthcare Research and Quality's (AHRQ) mission is to produce evidence to make health care safer, higher quality, more accessible, equitable, and affordable, and to work within the U.S. Department of Health and Human Services and with other partners to make sure that the evidence is understood and used. AHRQ's Center for Quality Improvement and Patient Safety (CQIPs) is addressing patient safety and medication research by focusing on the safe usage of medications. This perspective centers on how medications move through the health care system and how this systemic process can be improved so that patients are not harmed, while health care delivery is improved. CQIPs encourages the involvement of all members of the health care team, especially patients and families, nurses, pharmacists, technicians (pharmacy and medication administration technicians), health care administrators, risk managers, and physicians across all settings of care, including in the home. This FOA will fund investigative research demonstration projects that examine the effective implementation of processes, policies, and behaviors that support safe use of medication as well as its sustainment and dissemination. **PA-16-421**

- URL: <https://grants.nih.gov/grants/guide/pa-files/PA-16-421.html>

Advances in Patient Safety through Simulation Research (R18)

U.S. Dept. of Health & Human Services (HHS) - Agency for Healthcare Research & Quality (AHRQ)

Due Date: 1/25/2017, 5/25/2017, 9/25/2017 (standard due dates apply)

The Agency for Healthcare Research and Quality (AHRQ) is interested in funding a diverse set of projects that develop, test and evaluate various simulation approaches for the purpose of improving the safe delivery of health care. Simulation in health care serves multiple purposes. As a training technique, it exposes individuals and teams to realistic clinical challenges through the use of mannequins, task trainers, virtual reality, standardized patients or other forms, and allows participants to experience in

real-time the consequences of their decisions and actions. The principal advantage of simulation is that it provides a safe environment for health care practitioners to acquire valuable experience without putting patients at risk. Simulation also can be used as a test-bed to improve clinical processes and to identify failure modes or other areas of concern in new procedures and technologies that might otherwise be unanticipated and serve as threats to patient safety. Yet another application of simulation focuses on the establishment of valid and reliable measures of clinical performance competency and their potential use for credentialing and certification purposes. The foremost aim of the announcement is to advance patient safety. Keeping this aim in mind, applications that address a variety of simulation techniques, clinical settings, provider groups, priority populations, and patient conditions are welcomed. **PA-16-420**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-16-420.html>

Health Promotion Among Racial and Ethnic Minority Males (R01)

National Institutes of Health (NIH)

Due Dates: 2/5/2017, 6/5/2017, 10/5/2017 (standard NIH due dates apply)

This initiative seeks applications that propose to stimulate and expand research in the health of minority men. Specifically, this initiative is intended to: 1) enhance our understanding of the numerous factors (e.g., sociodemographic, community, societal, personal) influencing the health promoting behaviors of racial and ethnic minority males across the life cycle, and 2) encourage applications focusing on the development and testing of culturally and linguistically appropriate health-promoting interventions designed to reduce health disparities among racially and ethnically diverse males age 18 and older. **PA-16-428**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-16-428.html>

NLM Grants for Scholarly Works in Biomedicine and Health (G13)

National Institutes of Health (NIH) - National Library of Medicine (NLM)

Due Date: 2/24/2017 (Optional LOIs due 30 days prior to application due date)

NLM Grants for Scholarly Works in Biomedicine and Health are awarded for the preparation of book-length manuscripts and other works of academic and/or public health policy value to U.S. health professionals, public health officials, biomedical researchers and historians of the health sciences. **PAR-16-417**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-16-417.html>

MULTIPLE DISCIPLINES

Materials-Based Research

Center for Craft, Creativity & Design (CCCD)

Due Date: 11/16/2016

Founded in 1996, the [Center for Craft, Creativity & Design](http://www.craftcreativitydesign.org) is a national nonprofit organization dedicated to advancing the field of craft by fostering new ideas, funding craft scholarship, and backing the next generation of makers, curators, and critics. Each year, CCCD administers the distribution of over a quarter million dollars in grants to those working in the craft field. As part of this mission, CCCD has issued a Request for Proposals for a new pilot grant initiative that aims to support the expanding definition of craft-based research and promote collaboration between the fields of craft, science, technology, engineering, and mathematics. Through the Materials-Based Research Grant program, grants of up to \$15,000 over eighteen months will be awarded to interdisciplinary teams of researchers to encourage mutually beneficial innovation in craft and STEM fields, with a focus on materials and process-based research. The teams should include one maker and one professional working in a STEM-based field (e.g., material science, manufacturing, environmental studies, medicine, structural engineering, etc.). This can include academics, researchers, scientists, full-time makers, or other skilled specialists. See the CCCD website for complete program guidelines and application instructions.

- URL: http://www.craftcreativitydesign.org/wp-content/uploads/2016/09/2017-CRF-%E2%80%93-MBR-Guidelines_Final.pdf

Smart and Connected Health (SCH)

National Science Foundation (NSF)

Due Date: 12/8/2016 (Integrative (INT) Proposals)

The goal of the Smart and Connected Health (SCH) Program is to accelerate the development and use of innovative approaches that would support the much needed transformation of healthcare from reactive and hospital-centered to preventive, proactive, evidence-based, person-centered and focused on well-being rather than disease. Approaches that partner technology-based solutions with biobehavioral health research are supported by multiple agencies of the federal government including the National Science Foundation (NSF) and the National Institutes of Health (NIH). The purpose of this program is to develop next generation health care solutions and encourage existing and new research communities to focus on breakthrough ideas in a variety of areas of value to health, such as sensor technology, networking, information and machine learning technology, decision support systems, modeling of behavioral and cognitive processes, as well as system and process modeling. Effective solutions must satisfy a multitude of constraints arising from clinical/medical needs, social interactions, cognitive limitations, barriers to behavioral change, heterogeneity of data, semantic mismatch and

limitations of current cyberphysical systems. Such solutions demand multidisciplinary teams ready to address technical, behavioral and clinical issues ranging from fundamental science to clinical practice. Due in large part to advances in high throughput and connective computing, medicine is at the cusp of a sector-wide transformation that - if nurtured through rigorous scientific innovation - promises to accelerate discovery, improve patient outcomes, decrease costs, and address the complexity of such challenging health problems as cancer, heart disease, diabetes and neurological degeneration. These transformative changes are possible in areas ranging from the basic science of molecular genomics and proteomics to decision support for physicians, patients and caregivers through data mining to support behavior change through technology-enabled social and motivational support. In addition to these scientific discoveries, innovative approaches are required to address delivery of high quality, economically-efficient healthcare that is rapidly becoming one of the key economic, societal and scientific challenges in the United States. The need for a significant healthcare transformation has been recognized by numerous organizations including the President's Council of Advisors on Science and Technology (PCAST), National Research Council (NRC), Institute of Medicine (IOM), Computing Community Consortium (CCC), and the National Academy of Engineering. Additionally, a congressionally mandated review of Networking and Information Technology Research and Development (NITRD) emphasized the critical role that networking and information technology will play in spurring innovation to solve the nation's most pressing challenges, beginning with health and healthcare. Several of these agencies explicitly encouraged the Department of Health and Human Services (e.g., NIH, Agency for Healthcare Research and Quality (AHRQ), Office National Coordinator for Health Information Technology (ONCHIT)) to work explicitly with the National Science Foundation to realize the scientific potential of digitally supported health and healthcare. Recommendations also called for joint funding between these agencies to conduct cross-cutting research into the social, cognitive, and behavioral processes underlying efficient use of the new technologies, and the analytic demands implied by the new large scale databases. The purpose of this interagency program solicitation is the development of next generation health and healthcare research through high-risk, high-reward advances in the understanding of and applications in information science, technology, behavior, cognition, sensors, robotics, bioimaging, and engineering. Collaboration between academic, industry, non-profit and other organizations is strongly encouraged to establish better linkages between fundamental science, clinical practice and technology development, deployment and use. This solicitation is aligned with the visions (e.g., PCAST, NRC, IOM) calling for major changes in health and wellbeing as well as healthcare delivery and is aimed at the fundamental research to enable the change. Realizing the promise of disruptive transformation in health and healthcare will require well-coordinated, multi-disciplinary approaches that draw from the social, behavioral, and economic sciences, engineering, medicine, biology, and computer and information sciences. As detailed in this solicitation, appropriate scientific areas of investigations may be related to any of the participating funding organizations. Questions concerning a particular project's focus, direction and relevance to a participating funding organization should be addressed to the appropriate person in the list of agency contacts found in section VIII of the solicitation. **NSF 16-601**

- URL: <http://www.nsf.gov/pubs/2016/nsf16601/nsf16601.htm>

NEW FACULTY / INVESTIGATOR

AERA Awards Program: Early Career Award

American Educational Research Association (AERA)

Due Date: 11/2/2016

Established to honor an individual in the early stages of his or her career, this award can be granted for study in any field of educational inquiry.

- **URL:**

http://forms.logiforms.com/formdata/user_forms/7993_9562493/64431/page1.html?cachebus t=3613

SOCIAL & BEHAVIORAL SCIENCES

Graduate Research Fellowship in the Social and Behavioral Sciences

U.S. Dept. of Justice (DoJ) – Office of Justice Programs (OJP) - National Institute of Justice (NIJ)

Due Date: 11/21/2016

The NIJ Graduate Research Fellowship (GRF) Program in Social and Behavioral Sciences is open to doctoral students in all social and behavioral science disciplines. This program provides awards to accredited academic institutions to support graduate research leading to doctoral degrees in areas that are relevant to ensuring public safety, preventing and controlling crime, and ensuring the fair and impartial administration of criminal justice in the United States. NIJ invests in doctoral education by supporting universities that sponsor students who demonstrate the potential to successfully complete doctoral degree programs in disciplines relevant to the mission of NIJ, and who are in the final stages of graduate study. Applicants sponsoring doctoral students are eligible to apply only if: 1. The doctoral student's degree program is in a social and behavioral science discipline; and 2. The student's proposed dissertation research has demonstrable implications for addressing the challenges of public safety, crime, and/or the fair and impartial administration of criminal justice in the United States. **NIJ-2017-10720**

- **URL:** http://nij.gov/funding/Documents/solicitations/NIJ-2017-10720.pdf?utm_source=Eblast-GovDelivery&utm_medium=Email&utm_content=GRF-SBS-solic-09122016&utm_campaign=Solicitations

Real-Time Crime Forecasting Challenge

National Institute of Justice (NIJ)

Due Date: 2/28/2017

The *Real-Time Crime Forecasting Challenge* seeks to harness the advances in data science to address the challenges of crime and justice. It encourages data scientists across all scientific disciplines to foster innovation in forecasting methods. The goal is to develop algorithms that advance place-based crime forecasting through the use of data from one police jurisdiction.

- URL: <http://www.nij.gov/funding/Pages/fy16-crime-forecasting-challenge.aspx>

STUDENTS

Graduate Fellowship Program

Fannie and John Hertz Foundation

Due Date: 10/28/2016; 10/31/2016 (References Due)

The Graduate Fellowship Award is based on merit (not need) and consists of a cost-of-education allowance and a personal-support stipend. The cost-of-education allowance is accepted by all of the tenable schools in lieu of all fees and tuition. Hertz Fellows therefore have no liability for any ordinary educational costs, regardless of their choice among tenable schools. Fellows must attend one of the Foundation's tenable schools, or must petition the Foundation to include a school that they desire to attend. The Foundation supports graduate students working towards the Ph.D. degree in the applied physical, biological and engineering sciences. These fields include applied mathematics, statistics, and quantitative aspects of modern biology. Here, "applied" is broadly construed to mean fields of endeavor in which one applies, invents, and/or develops results from the basic physical sciences to generate solutions to problems of comparatively near-term, widespread human interest. The Foundation's efforts complement the applied physical sciences portion of the NSF's graduate fellowship program (and the Foundation coordinates with the NSF periodically). The Foundation does not support study in pursuit of the M.D. Degree or work in descriptive biology, although it may support the Ph.D. portion of a joint M.D./Ph.D. study program.

- URL: <http://hertzfoundation.org/dx/fellowships/application.aspx>

NASA Space Technology Research Fellowships

National Aeronautics and Space Administration (NASA)- Office of the Chief Technologist (OCT)

Due Date: 11/3/2016

NASA's Office of the Chief Technologist (OCT) seeks to sponsor U.S. graduate student researchers who show significant potential to contribute to NASA's strategic goals and missions. This call for graduate fellowship applications solicits applications from accredited U.S. universities on behalf of highly qualified individuals pursuing or planning to pursue master's (e.g., M.S.) or doctoral (e.g., Ph.D.) degrees in relevant space technology disciplines at their respective institutions. This call is open to students pursuing advanced degrees in Science, Technology, Engineering and Mathematics (STEM). The goal of NSTRF is to provide the Nation with a pipeline of highly skilled engineers and technologists to improve America's technological competitiveness. NASA Space Technology Fellows will perform innovative space technology research while building the skills necessary to become future technological leaders. Selected candidates will perform graduate student research both on their respective campuses, at NASA Centers and at nonprofit U.S. Research and Development (R&D) laboratories. In addition to his or her faculty advisor, each student will be matched with a technically relevant and community engaged researcher who will serve as the students professional mentor. Through this experience, students will advance their STEM education, gain relevant research experience, and enhance their understanding of the research process. **NSTRF17**

- **URL:**<https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={A3488581-2E70-6AA1-76F0-E9A5A770A975}&path=open>

Elizabeth Munsterberg Koppitz Child Psychology Graduate Student Fellowship

American Psychological Association (APA) - American Psychological Foundation (APF)

Due Date: 11/15/2016

This program provides fellowships and scholarships for graduate student research in the area of child psychology. The fellowship program (1) nurtures excellent young scholars for careers in areas of psychology, such as child-clinical, pediatric, school, educational, and developmental psychopathology, and (2) supports scholarly work contributing to the advancement of knowledge in these areas. **NOTE: this is a limited submission opportunity - Only one application can be received from any one institution in any one year.**

- **URL:** <http://www.apa.org/apf/funding/koppitz.aspx>