WICHITA STATE UNIVERSITY
RESEARCH AND TECHNOLOGY TRANSFER

Funding Bulletin
June 30th, 2017 (Vol. 4, No. 19)

Funding Information

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

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

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

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

How to Apply

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

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

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
IRB Open Lab	Jul 10	10:00 – 11:30 a.m.	405 Jardine	The IRB Administrator will be holding Open Labs this fall for Faculty, Staff or Students who have questions about the new forms or about their study in general. ***This is a come and go lab with no registration required.***
Research Compliance Open Lab	Jul 19	9:00 – 11:00 a.m.	Devlin Hall Innovation Hub	The Research Compliance Office will hold an open lab for questions regarding hiring foreign nationals; shipping or receiving items from outside the US; international travel; review of Research projects for export compliance; conflicts of interest & management plans. ***This is a come and go lab with no registration required.***

NOTICES

Funding Bulletin Survey – your feedback is appreciated!

The Office of Research has created a short survey to gage user satisfaction for our Funding Bulletin; please take a couple minutes to tell us your thoughts about it. Participation is confidential and optional; results will be utilized to evaluate customer satisfaction with funding search support. Your feedback is appreciated! Please follow the link below to access the survey:

https://wichitastate.co1.qualtrics.com/jfe/form/SV_9AHfbwsfnD8Y6a1

Curious to see who's receiving external funding on campus?!? Check out the Office of Research's Monthly Awards

http://webs.wichita.edu/?u=wsuresearchadmin&p=/researchmonthlyawards/jan17/

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State of Kansas Request for Proposal Distribution List

The Office of Research is developing an email list of PI's interested in receiving notifications on upcoming State of Kansas Request for Proposal opportunities. These opportunities are often limited to 1 submission per institution, and have quick turn-around deadlines. If you are interested in being added to our notification list, please email proposals@wichita.edu and include your areas of interest.

INTERNAL OPPORTUNTIES

The next available internal opportunities will be: 1) Multi-disciplinary Research Projects Award (MURPA) and 2) University Research/Creative Award (URCA) - Round 2.   Both will have October 2017 deadlines.

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

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 Notice of Intent (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 *five* open limited submission competitions:**

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(1) Big Data Regional Innovation Hubs: Establishing Spokes to Advance Big Data Applications (BD Spokes)
National Science Foundation (NSF)
Due Date: Internal NOI 7/1/2017; Full Proposal 9/18/2017

NSF's Directorate for Computer and Information Science and Engineering (CISE) initiated the National Network of Big Data Regional Innovation Hubs (BD Hubs) program in FY 2015. Four BD Hubs - Midwest, Northeast, South, and West - were established to foster multi-sector collaborations among academia, industry, and government, both nationally and internationally. These BD Hubs are serving a convening and coordinating role by bringing together a wide range of Big Data stakeholders in order to connect solution seekers with solution providers. In FY 2016, the Big Data Regional Innovation Hubs: Establishing Spokes to Advance Big Data Applications (BD Spokes) solicitation began extending the BD Hubs network by establishing multi-institutional and multi-sector collaborations to focus on topics of specific interest to a given region. The first set of BD Spokes was funded in FY 2016. This solicitation calls for new BD Spoke proposals to be awarded in FY 2018. Collaborating with BD Hubs, each BD Spoke will focus on a particular topic that requires Big Data approaches and solutions. The set of activities managed by a BD Spoke will promote progress towards solutions in the chosen topic area. The regional BD Hub Steering Committee will provide general guidance to each BD Spoke and will assist the BD Spoke in coordinating with the national BD Hub network, with other BD Spokes, and with the broader innovation ecosystem.

The Big Data activities of a BD Spoke will be guided by the following broad themes:
- Accelerating progress towards addressing societal grand challenges relevant to the regional and national priority areas defined by the BD Hubs (information on priority areas can be found on each Hub's website listed in the Introduction section below);
- Helping automate the Big Data lifecycle; and
- Enabling access to and spurring the use of important and valuable available data assets, including international data sets where relevant.

NSF's overall Big Data research and development (R&D) portfolio includes fundamental research, infrastructure development and provisioning, education and workforce development, and community engagement. Not all of these aspects of the overall portfolio are covered by this solicitation. In particular, this solicitation is not meant to fund proposals in which fundamental research is the primary activity. If research is a substantial portion of the proposed activities, please consult with a cognizant NSF program officer of this solicitation to help find a more appropriate solicitation. For example, projects focused on foundations and innovative applications related to Big Data may be better suited for submission to the Critical Techniques and Technologies for Advancing Foundations and Applications of Big Data Science & Engineering (BIGDATA) program. Similarly, projects focused primarily on privacy research may be more suited to NSF's Secure and Trustworthy Cyberspace (SaTC) program. **NSF 17-546**

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There are two proposal categories covered by this solicitation: SMALL and MEDIUM BD Spokes. ***Proposal submissions are limited to 1 per organization (except as non-lead in a collaborative proposal) to maintain a balanced geographic representation of the Regional Hubs and Spokes program and to increase diversity of participating institutions.***

- **URL:** *https://www.nsf.gov/pubs/2017/nsf17546/nsf17546.htm*

(2) Bridges to the Baccalaureate Program (R25)
National Institutes of Health (NIH) - National Institute of General Medical Sciences (NIGMS)
Due Date: Internal NOI 7/1/2017; Application 9/25/2017

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this National Institute of General Medical Sciences (NIGMS) R25 program is to support educational activities that enhance the diversity of the biomedical research workforce. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Courses for Skills Development, Research Experiences, and Curriculum or Methods Development. A program application must include each activity, and describe how they will be synergized to make a comprehensive program. The Bridges to Baccalaureate Program is intended to provide these activities to community college students to increase transition to and completion of Bachelor's degree in biomedical sciences.   This program requires partnerships between community colleges or other two-year post-secondary educational institutions granting the associate degree with colleges or universities that offer the baccalaureate degree.   Additionally, recruitment and retention plans are required as part of the application. **PAR-17-210 *Applicant organizations may NOT submit more than one application as the lead institution.***

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PAR-17-210.html*

(3) Research Education: Bridges to the Doctorate (R25)
National Institutes of Health (NIH) - National Institute of General Medical Sciences (NIGMS)
Due Date: Internal NOI 7/1/2017; Application 9/25/2017

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this National Institute of General Medical Sciences (NIGMS) R25 program is to support educational activities that enhance the diversity of the biomedical research workforce. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on   Courses for Skills Development and Research Experiences. The Bridges to Doctorate Program is intended to provide these educational activities to Master's level students to increase transition to and completion of Ph.D.'s in biomedical sciences. A program

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application must include each educational activity, and describe how they will be synergized to make a comprehensive program. This program requires partnerships between master's degree-granting institutions with doctorate degree-granting institutions. Additionally, recruitment and retention plans are required as part of the application. **PAR-17-209** *Applicant organizations may not submit more than one application as the Lead Institution; organizations can be the lead on one application and partner on another.*

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PAR-17-209.html*

(4) Grants
Honda Corporate - American Honda Foundation
Due Date: Internal NOI 7/14/2017; Application 8/1/2017

The purpose of this program is to help meet the needs of American society in the areas of youth and scientific education by awarding grants to nonprofits, while strategically assisting communities in deriving long-term benefits. The American Honda Foundation engages in grant making that reflects the basic tenets, beliefs and philosophies of Honda companies, which are characterized by the following qualities: imaginative, creative, youthful, forward-thinking, scientific, humanistic and innovative. It supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment. *An organization can only submit one application in a 12-month period. This includes institutions with several departments, divisions or schools. Multiple requests from the same institution will be declined and returned.*

- **URL:** *http://www.honda.com/community/applying-for-a-grant*

(5) Summer Stipends
National Endowment for the Humanities (NEH)
Due Date: Internal NOI 7/14/2017; Nominations 9/27/2017

Summer Stipends support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Eligible projects usually result in articles, monographs, books, digital materials and publications, archaeological site reports, translations, editions, or other scholarly resources. Summer Stipends support projects at any stage of development. **20170929-FT** *Each college and university in the United States and its jurisdictions may nominate two full-time 12 month appointment faculty members. Faculty members with 9 month appointments are exempt from this limitation.*

- **URL:** *https://www.neh.gov/grants/research/summer-stipends*

GENERAL

Public Works and Economic Adjustment Assistance Programs
U.S. Department of Commerce (DoC) - Economic Development Administration (EDA)
Due Date: Applications accepted on an ongoing basis

EDA provides strategic investments on a competitive merit basis to support economic development, foster job creation, and attract private investment in economically distressed areas of the United States. Under this NOFA, EDA solicits applications from applicants in order to provide investments that support construction, non-construction, planning, technical assistance, and revolving loan fund projects under EDA's Public Works and EAA programs. Grants and cooperative agreements made under these programs are designed to leverage existing regional assets and support the implementation of economic development strategies that advance new ideas and creative approaches to advance economic prosperity in distressed communities. **EDAP-2017**

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=294771*

ARTS & HUMANITIES

Art Works II
National Endowment for the Arts (NEA)
Due Date: 7/13/2017

"Art Works" refers to three things: the works of art themselves, the ways art works on audiences, and the fact that art is work for the artists and arts professionals who make up the field. Art works by enhancing the value of individuals and communities, by connecting us to each other and to something greater than ourselves, and by empowering creativity and innovation in our society and economy. The arts exist for beauty itself, but they also are an inexhaustible source of meaning and inspiration. The NEA recognizes these catalytic effects of excellent art, and the key role that arts and design organizations play in revitalizing them. **2017NEA01AW2**

To deepen and extend the arts' value, including their ability to foster new connections and to exemplify creativity and innovation, NEA welcomes projects that:

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- Are likely to prove transformative with the potential for meaningful change, whether in the development or enhancement of new or existing art forms, new approaches to the creation or presentation of art, or new ways of engaging the public with art;
- Are distinctive, offering fresh insights and new value for their fields and/or the public through unconventional solutions; and
- Have the potential to be shared and/or emulated, or are likely to lead to other advances in the field.

Beyond encouraging projects that demonstrate these characteristics, NEA wants to achieve the following four objectives through the Art Works category:
- Creation: The creation of art that meets the highest standards of excellence,
- Engagement: Public engagement with diverse and excellent art,
- Learning: Lifelong learning in the arts, and
- Livability: The strengthening of communities through the arts.

- **URL:** *https://www.arts.gov/grants-organizations/art-works/grant-program-description*

Humanities Open Book Program
National Endowment for the Humanities (NEH)
Due Date: Draft Applications 8/16/2017; Applications 9/13/2017

The Humanities Open Book Program is designed to make outstanding out-of-print humanities books available to a wide audience. By taking advantage of low-cost "ebook" technology, the program will allow teachers, students, scholars, and the public to read humanities books that have long been out of print. Humanities Open Book is jointly sponsored by NEH and the Andrew W. Mellon Foundation. Traditionally, printed books have been the primary medium for expressing, communicating, and debating humanistic ideas. However, the vast majority of humanities books sell a small number of copies and then quickly go out of print. Most scholarly books printed since 1923 are not in the public domain and are not easily available to the general public. As a result, there is a huge, mostly untapped resource of remarkable scholarship going back decades that is largely unused by today's scholars, teachers, students, and members of the public, many of whom turn first to the Internet when looking for information. Modern ebook technology can make these books far more accessible than they are today. NEH and Mellon are soliciting proposals from academic presses, scholarly societies, museums, and other institutions that publish books in the humanities to participate in the Humanities Open Book Program. Applicants will provide a list of previously published humanities books along with brief descriptions of the books and their intellectual significance. Depending on the length and topics of the books, the number to be digitized may vary. However, NEH and Mellon anticipate that applicants may propose to digitize a total that ranges from less than fifty to more than one hundred books. Awards will be given to digitize these books and make them available as Creative Commons-licensed "ebooks" that

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can be read by the public at no charge on computers, mobile devices, and ebook readers. The final ebook files must be in EPUB version 3.0.1 (or later) format, to ensure that the text is fully searchable and reflowable and that fonts are resizable on any e-reading device. **20160913-HZ**

- **URL:** *https://www.neh.gov/grants/odh/humanities-open-book-program*

Humanities Grants
Kansas Humanities Council (KHC)
Due Date: FALL 2017 Project Drafts 8/24/2017; Final Applications 9/21/2017

Humanities Grants support projects that engage the public with the humanities.

Goals:
1. Connect Kansans with ideas, people, and places from across time and generations.
2. Engage citizens in discussions about a humanities theme or topic.
3. Offer multiple points of view for the public to consider.
4. Strengthen sense of community.

Projects eligible for humanities grant support include a series of public programs specific to a humanities theme, museum exhibitions, film and book discussions, the creation of short documentary films, full-length film documentaries, media projects, and other creative activities.

What are the humanities?
The humanities explore the human experience. According to the 1965 National Foundation on the Arts and the Humanities Act, "The term `humanities' includes, but is not limited to, the study of the following: language, both modern and classical; linguistics; literature; history; jurisprudence; philosophy; archaeology; comparative religion; ethics; the history, criticism and theory of the arts; those aspects of social sciences which have humanistic content and employ humanistic methods; and the study and application of the humanities to the human environment with particular attention to reflecting our diverse heritage, traditions, and history and to the relevance of the humanities to the current conditions of national life."

What is a humanities program?
An important goal of the humanities is to encourage reflection about values and ideas. All of us hold beliefs and assumptions that shape the way we see the world, whether it's a contemporary issue or our understanding of an historical event such as the Civil War. A humanities program makes us more aware of the connection between our values and the views that we express in public and private life. A good humanities program makes us think in new ways. It asks questions, without providing pat

answers. It presents different points of view about an issue or topic. A humanities program moves beyond facts and information (what, where, and when) to interpretation (how can we learn from this? which version of the story do we choose to believe and why?).

- **URL:** *http://kansashumanities.org/kansas-grants/humanities-grants/*

Conservation Grants Program
Kress Foundation, Samuel H.
Due Date: 10/1/2017

The Conservation program supports the professional practice of art conservation, especially as it relates to European art of the pre-modern era. Grants are awarded to projects that create and disseminate specialized knowledge, including archival projects, development and dissemination of scholarly databases, documentation projects, exhibitions and publications focusing on art conservation, scholarly publications, and technical and scientific studies. Grants are also awarded for activities that permit conservators and conservation scientists to share their expertise with both professional colleagues and a broad audience through international exchanges, professional meetings, conferences, symposia, consultations, the presentation of research, exhibitions that include a prominent focus on materials and techniques, and other professional events. Support for conservation treatments is generally limited to works from the distributed Kress Collection, and is coordinated through the Kress Program in Paintings Conservation at the Conservation Center of the New York University Institute of Fine Arts.

- **URL:** *http://www.kressfoundation.org/grants/conservation/*

GRAMMY Foundation Grant Program: Archiving and Preservation Projects
GRAMMY Foundation
Due Date: Letters of Inquiry 10/1/2017

The GRAMMY Foundation Grant Program awards grants to organizations and individuals to support efforts that advance the archiving and preservation of the music and recorded sound heritage of the Americas. Grant funds have been utilized to preserve private collections as well as materials at the Library of Congress, the Smithsonian and numerous colleges and universities.

The Archiving and Preservation area has two funding categories.
A. Preservation Implementation:

B. Assistance, Assessment and/or Consultation: Preservation Assistance grants are available to help individuals and small to mid-sized organizations enhance their ability to preserve their collections that embody the recorded sound heritage of the Americas. The goal of a Preservation Assistance grant is to fund the assessment and preparation of recorded sound collections to be archived and preserved.

- **URL:** *http://www.grammymuseum.org/programs/grants-program*

GRAMMY Foundation Grant Program: Scientific Research Projects
GRAMMY Foundation
Due Date: 10/1/2017

The Foundation awards grants each year to organizations and individuals to support research on the impact of music on the human condition. Examples might include the study of the effects of music on mood, cognition and healing, as well as the medical and occupational well-being of music professionals and the creative process underlying music. Priority is given to projects with strong methodological design as well those addressing an important research question. Research projects have studied the links between music and early childhood education, treatments for illnesses and injuries common to musicians, and the impact of music therapy on populations from infants to the elderly.

- **URL:** *http://www.grammymuseum.org/programs/grants-program*

Archives Leadership Institute
National Archives and Records Administration (NARA) - National Historical Publications and Records Commission (NHPRC)
Due Date: 12/7/2017

The Archives Leadership Institute (ALI) is a program funded by the National Historical Publications and Records Commission (NHPRC), a statutory body affiliated with the National Archives and Records Administration (NARA), and is being hosted at Berea College for the years 2016-2018. ALI will provide advanced training for 25 archival leaders each year, giving them the knowledge and tools to transform the profession in practice, theory and attitude. **LEADERSHIP-201712**

Participants of the Archives Leadership Institute will be expected to:
- Attend the Leadership Institute at Berea College (Berea, Kentucky), June 25 - July 1, 2017.
- Develop and conduct a practicumÃ¢€style leadership project at your home institution

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- Participate in ongoing discussions, projects, and networking opportunities through the cohort mailing list and alumni forum
- Conduct a thematic Group Project with other ALI alumni that will address challenges within the archival field (optional)
- Professionally present projects and products that were a result of your ALI experience and training (optional)

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=294572*

Access to Historical Records - Archival Projects
National Archives and Records Administration (NARA)
Due Date: 10/5/2017

The National Historical Publications and Records Commission seeks projects that ensure online public discovery and use of historical records collections. All types of historical records are eligible, including documents, photographs, born-digital records, and analog audio and moving images.

Projects may preserve and process historical records to:
* Create new online Finding Aids to collections
* Digitize historical records collections and make them freely available online

The NHPRC encourages organizations to actively engage the public in the work of the project.
ARCHIVAL-201710

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=286450*

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EDUCATION

7-12 Classroom Research Grants
National Council of Teachers of Mathematics (NCTM)
Due Date: 11/4/2017

The purpose of this grant is to support and encourage classroom-based research in precollege mathematics education in collaboration with college or university mathematics educators. For 2017-18 grants will be awarded to mathematics educators or classroom teachers currently teaching mathematics at the grades 7-12 level. The research must be a collaborative effort involving a college or university mathematics educator (a mathematics education researcher or a teacher of mathematics learning, teaching, or curriculum) and one or more grades 7-12 classroom teachers (individuals who spend half or more of their work time teaching in the classroom).

The proposal may include, but is not restricted to, research on the following topics:
- Curriculum development and implementation
- Involvement of at-risk or minority students
- Students' thinking about a particular mathematics concept or set of concepts
- Connection of mathematics to other disciplines
- Focused learning and teaching of mathematics with embedded use of technology (any acquisition of equipment must support the proposed plan but not be the primary focus of the grant)
- Innovative assessment or evaluation strategies

Involvement of preservice teachers is encouraged but not required. This research should lead to a draft article suitable for submission in the Mathematics Teacher Educator,Journal for Research in Mathematics Education , or in one of the NCTM school journals. Proposals must address the following: research design, the plan for collecting and analyzing data, and the anticipated impact on students' learning.

- **URL:** *http://www.nctm.org/Grants-and-Awards/Grants/7-12-Classroom-Research-Grants/*

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ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

Biomass Research and Development Initiative (BRDI)
United States Department of Energy (DOE) - Office of Energy Efficiency and Renewable Energy (EERE) - Golden Field Office (GFO)
Due Date: Concept Papers 7/7/2017; Applications 9/22/2017

This FOA is a joint effort between the U.S. Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) and the U.S. Department of Energy (DOE) Energy Efficiency and Renewable Energy Golden Field Office, Biomass Program for fiscal year (FY) 2011 BRDI, which requires that funded projects integrate all three legislatively mandated technical areas. These areas include (A) Feedstocks development, (B) Biofuels and biobased products development, and (C) Biofuels development analysis. The intent of requiring integration is to apply systems evaluation methods that can be used to optimize system performance and market potential and to quantify the project's impact on sustainability; therefore, successful applications will consider the life-cycle (cradle-to-grave) impacts including environmental, social, and economic implications that are attributable to the project. Successful projects should include these sustainability data in engineering process models and be used over the life of the project to improve the system and quantify sustainability impacts. **DE-FOA-0001637**

- **URL:** *https://eere-exchange.energy.gov/Default.aspx#FoaId708078a3-c488-444e-8619-a68ce98608c7*

National Initiative for Cybersecurity Education (NICE) Stakeholder Engagement Program
United States Department of Commerce (DOC) - National Institute of Standards and Technology (NIST)
Due Date: 8/1/2017

NICE, led by the National Institute of Standards and Technology (NIST) in the U.S. Department of Commerce, is a partnership between government, academia, and the private sector focused on cybersecurity education, training, and workforce development. The mission of NICE is to energize and promote a robust network and an ecosystem of cybersecurity education, training, and workforce development. NICE fulfills this mission by coordinating with government, academic, and industry partners to build on existing successful programs, facilitate change and innovation, and bring leadership and vision to increase the number of skilled cybersecurity professionals helping to keep our Nation secure. The NICE Annual Conference and Expo brings together thought leaders from academia, industry, government, and non-profits to help address the nation's cybersecurity education, training, and workforce needs. The NICE Conference includes face-to-face convening of public-private partners,

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an opportunity to signal NICE strategic directions and priorities, and a forum to showcase best practices. Every aspect of the NICE Strategic Plan requires outreach and coordination with multiple stakeholders. NICE seeks to provide assistance to an organization engaged in building national (and exploring international) relationships to further advance cybersecurity education and training, building the cybersecurity workforce development community with a year-round communication strategy and capping that engagement by planning and holding the NICE Annual Conference and Expo. For the NICE Annual Conference and Expo, NICE seeks an organization to lead the conference planning and execution efforts. This includes the full range of pre-conference activities from determining tracks, content, and speakers and arranging the venue to managing the conference logistics to post conference wrap up activities. NICE expects the conference to be kept affordable to a wide range of participants. As a national initiative, it is critical that the outreach strategy and conference participation demonstrate a commitment to diversity, including regional diversity. Conferences must move about the country from year to year within the continental United States. Applicants should plan for annual conferences of at least 750 to 1000 attendees with venues that keep costs affordable to the community and have good transportation options for attendees. **2017-NIST-NICE-01**

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=294083*

Basic Research Challenge (BRC) Program
United States Department of Defense (DOD) - Department of the Navy (U.S. Navy) - Office of Naval Research (ONR)
Due Date: 8/18/2017; 11/17/2017

The Office of Naval Research (ONR) is interested in receiving proposals for basic research relating to the following topic areas:
Topic 1: Randomized Numerical Linear Algebra for Large-Scale, Efficient Matrix Computations
Topic 2: Levitated Optomechanics
Topic 3: Exploring Compositional Space to Predict and Evolve Multi-Principal Element Alloys
Topic 4: Guaranteed Performance of Multibody Control Systems

N00014-17-S-BA13

- **URL:** *https://www.onr.navy.mil/en/Science-Technology/Directorates/office-research-discovery-invention/Sponsored-Research/BRC*

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Center of Excellence: Trusted Human-Machine Teaming
U.S. Department of Defense (DoD) – Air Force Office of Science Research (AFOSR)
Due Date: 8/18/2017 (Questions due 7/20/2017)

Notice seeking applications to contribute new computational and mathematical principles of cognition to form a symbiosis between mixed human-machine decision making found at all levels of U.S. Air Force operations. Proposals are sought for basic and applied research towards the measurement, estimation, and prediction of human cognitive states and intent, as well as machine learning, reasoning and execution of complex adaptive behavior in support of robust team processes and performance. Desirable proposals will emphasize measurement of neurophysiological signals from human teammates and the integration and interaction of multiple measures (e.g., behavioral, neurological, physiological). In additional, desirable proposals will seek to understanding and develop complex, adaptive machine behaviors that go beyond simple automation of function to more interdependent social and team processes, analogous to high-performing human teams. **FOA-AFRL-AFOSR-2017-0001**

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=294677*

Joint DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences (DMS/NIGMS)
National Science Foundation (NSF)
Due Date: 9/18/2017

This program is designed to support research in mathematics and statistics on questions in the biological and biomedical sciences. A direct relationship between a biological application and the mathematical and/or statistical work is expected. Research collaborations that include scientists from both the life sciences community and the mathematical and statistical sciences communities are encouraged. Both new and existing collaborations will be supported. Proposals from single investigators will need to make the case that the individual has expertise in both fields. Successful proposals will either involve the formulation of new mathematical, computational, or statistical models and tools whose analysis poses significant mathematical challenges or identify innovative mathematics or statistics needed to solve an important biological problem. Research that would apply standard mathematical or statistical techniques to solve biological problems is not appropriate for this competition and should be submitted directly to NIH. Similarly, proposals with research in mathematics or statistics that is not tied to a specific biological problem should be submitted to the appropriate DMS program at NSF. Proposals designed to create new software tools based on existing models and methods will not be accepted in this competition. **NSF 17-569**

- **URL:** *https://www.nsf.gov/pubs/2017/nsf17569/nsf17569.htm*

Office of Incisive Analysis Office-Wide Broad Agency Announcement (BAA)
Office of the Director of National Intelligence - Intelligence Advanced Research Projects Activity (IARPA)
Due Date: 5/2/2018

IARPA's Office of Incisive Analysis is soliciting proposals for research that will maximize insight from the information the Intelligence Community collects, in a timely fashion. IARPA invests in high-risk, high-payoff research that has the potential to provide our nation with an overwhelming intelligence advantage over future adversaries. This BAA solicits abstracts/proposals for the Office of Incisive Analysis (IA). IA focuses on maximizing insights from the massive, disparate, unreliable and dynamic data that are - or could be - available to analysts, in a timely manner. IARPA is pursuing new sources of information from existing and novel data, and developing innovative techniques that can be utilized in the processes of analysis. IA programs are in diverse technical disciplines but have the following common features: (a) they create technologies that can earn the trust of the analyst user by providing the reasoning for results; and (b) they address data uncertainty and provenance explicitly.

The following topics (in no particular order) are of interest to IA:
- Reliable, real-time feedback methods for assessing human judgment and reasoning;
- Discovering, tracking and categorizing emerging trends, events, and entities;
- Forensics on multimedia and/or social network data;
- Methods for analyzing, reconciling, and managing massive, multimodal, dynamic and diverse data;
- Enhancement of machine learning methods with transparent representations that allow for validation and high confidence in results;
- Methods to generate high resolution geospatial models or 4D geospatial/temporal models from multimodal data;
- Alternative computing regimes and data sharing environments that would facilitate multi-INT processing and asynchronous trusted collaboration;
- Dynamic means to expose and enhance unprocessed data and interim and/or alternative analytic products across domains and/or represent cascade effects of new information on existing models;
- Scalable and adaptable behavioral network science methods to organize information optimally for analytic effectiveness;
- Scalable cross-media anomaly detection and/or discovery methods to identify data and patterns resulting from distinct or novel causal processes;
- Methods for detecting and countering intentionally misleading information;
- Methods to rapidly identify, assess relevancy and reliability of, and/or exploit emerging or alternative sources of information or methods;
- Novel graph analytic techniques for representing, reasoning, and learning from massive or sparsely sampled heterogeneous data;
- Novel approaches to identify and assess persistent or shifting socio-cultural norms and/or effective methods to counter or influence attitudes, behavior or messaging;

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- Autonomous agent, machine learning and/or physiological intelligence methods to gather latent or suppressed knowledge.

This announcement seeks research ideas for topics that are not addressed by emerging or ongoing IARPA programs or other published IARPA solicitations. It is primarily, but not solely, intended for early stage research that may lead to larger, focused programs through a separate BAA in the future. Offerors should demonstrate that their proposed effort has the potential to make revolutionary, rather than incremental, improvements to intelligence capabilities. Research that primarily results in evolutionary improvement to the existing state of practice is specifically excluded. **IARPA-BAA-16-07**

- **URL:***https://www.fbo.gov/index?s=opportunity&mode=form&tab=core&id=106fb1646fe48db5e859401cfa10dfcc&_cview=0*

HEALTH, LIFE & EARTH SCIENCES

Peer Reviewed Medical Research Program (PRMRP) - Focused Program Award
United States Department of Defense (DOD) - Department of the Army - U.S. Army Medical Research and Materiel Command (USAMRMC) - Office of Congressionally Directed Medical Research Programs (CDMRP)
Due Date: Pre-Applications 7/20/2017; Applications 10/26/2017

The vision of the FY17 PRMRP is to improve the health and well-being of all military Service members, Veterans, and beneficiaries. The PRMRP challenges the scientific and clinical communities to address at least one of the FY17 Topic Areas with original ideas that foster new directions along the entire spectrum of research and clinical care. The program seeks applications in laboratory, clinical, behavioral, epidemiologic, and other areas of research to advance knowledge in disease etiology, improve prevention, detection, diagnosis, treatment, and quality of life for those affected by a relevant disease or condition, and to develop and validate clinical care or public health guidelines. All applications for PRMRP funding must specifically address at least one of the Topic Areas as directed by Congress and must be directly relevant to the healthcare needs of military Service members, Veterans, and/or beneficiaries. If the proposed research does not specifically address at least one of the FY17 PRMRP Topic Areas, the Government will administratively withdraw the application. The Government reserves the right to reassign the application's Topic Area if submitted under an inappropriate Topic Area.

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The FY17 PRMRP Topic Areas are listed below.

- Acute Lung Injury
- Antimicrobial Resistance
- Arthritis
- Burn Pit Exposure
- Chronic Migraine and Post-Traumatic Headache
- Congenital Heart Disease
- Constrictive Bronchiolitis
- Diabetes
- Diarrheal Diseases
- Dystonia
- Early Trauma Thermal Regulation
- Eating Disorders
- Emerging Infectious Diseases
- Epidermolysis Bullosa
- Focal Segmental Glomerulosclerosis
- Fragile X
- Guillain-Barré Syndrome
- Hepatitis B and C
- Hereditary Angioedema
- Hydrocephalus
- Immunomonitoring of Intestinal Transplants
- Inflammatory Bowel Diseases
- Influenza
- Integrative Medicine
- Interstitial Cystitis
- Malaria

- Metals Toxicology
- Mitochondrial Disease
- Musculoskeletal Disorders
- Nanomaterials for Bone Regeneration
- Non-Opioid Pain Management
- Pancreatitis
- Pathogen-Inactivated Dried Cryoprecipitate
- Polycystic Kidney Disease
- Post-Traumatic Osteoarthritis
- Pulmonary Fibrosis
- Respiratory Health
- Rett Syndrome
- Rheumatoid Arthritis
- Scleroderma
- Sleep Disorders
- Spinal Muscular Atrophy
- Sustained-Release Drug Delivery
- Tinnitus
- Tuberculosis
- Vaccine Development for Infectious Disease
- Vascular Malformations
- Women's Heart Disease

Research relevant to one or more FY17 PRMRP Topic Areas may be considered for funding. Applicants should select the FY17 PRMRP Program Announcement most appropriate to the stage of the proposed research. Areas of Encouragement related to the FY17 PRMRP Topic Areas have been identified by the Department of Defense (DoD), the Department of Veterans Affairs (VA), and other relevant stakeholders (Appendix 2). Applicants are urged to read and consider these Areas of Encouragement before preparing their applications. The information provided is not exhaustive, and applicants are not restricted to submitting applications that address an Area of Encouragement in this list. The PRMRP Focused Program Award mechanism is intended to optimize research and accelerate the solution for a critical question related to at least one of the Congressionally directed FY17 PRMRP Topic Areas through a synergistic, multidisciplinary research program. **W81XWH-17-PRMRP-FPA**

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=294160*

2017 Request for Proposals
Wichita Medical Research and Education Foundation (WMREF)
Due Date: Letters of Intent 8/18/2017

The purpose of this funding program is to provide investigators with short-term funding (seed money) leading to successful application to larger and new funding sources. The areas of research interest are in social / behavioral, biological, genetic or environmental determinants of disease and / or health, either physical or mental, across the life span. Quality improvement / quality evaluation projects will not be considered. A special feature of this announcement is the requirement for documented novel collaborative partnerships. These novel collaborative partnerships should include at least one institution of higher learning, such as Wichita State University and / or the University of Kansas School of Medicine-Wichita, but might also include other community partners or government agencies in this funded research opportunity. This program is designed to encourage researchers to develop strong working partnerships to foster a cooperative research environment in Wichita. The primary co-investigator must have an active working relationship with the principal investigator, with both actively participating in the project. Letters of intent will be screened for responsiveness to the RFP and fit to WMREF program development goals. The deadline for letter of intent submission is Friday, Aug. 18. Only those selected will be permitted to submit full applications. Notification of successful letter of intent will occur no later than Friday, Aug. 25. The successful candidate will be expected to credit WMREF for funding in presentation and publication.

- **URL:** *http://webs.wichita.edu/?u=wsuresearchadmin&p=/orainternalgrants/externalgrants/*

Pediatric Research Grants
Gerber Foundation
Due Date: Concept Papers 12/1/2017; Full Proposals 2/15/2018

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/*

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NEW FACULTY / INVESTIGATOR

Beckman Young Investigators (BYI) Program
Arnold and Mabel Beckman Foundation
Due Date: 8/14/2017

The Program is intended to provide research support to the most promising young faculty members in the early stages of academic careers in the chemical and life sciences particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science. The Program provides research support to the most promising young faculty members in the early stages of their academic careers in the chemical and life sciences, particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science.

- **URL:** *http://www.beckman-foundation.org/programs/beckman-young-investigators-program-information*

AAAS Early Career Award for Public Engagement with Science
American Association for the Advancement of Science (AAAS)
Due Date: 8/15/2017

This award, established in 2010, recognizes early-career scientists and engineers who demonstrate excellence in their contribution to public engagement with science activities. For the purposes of this award, public engagement activities are defined as the individual's active participation in efforts to engage with the public on science- and technology-related issues and promote meaningful dialogue between science and society. Types of public engagement activities might include: informal science education, public outreach, public policy, and/or science communication activities, such as mass media, public dialogue, radio, TV and film, science café, science exhibit, science fair, and social and online media.

- **URL:** *https://www.aaas.org/page/aaas-early-career-award-public-engagement-science*

SOCIAL & BEHAVIORAL SCIENCES

Linguistics Program - Doctoral Dissertation Research Improvement Awards (Ling-DDRI)
National Science Foundation (NSF)
Due Date: 7/17/2017, 1/15/2018

As part of its effort to encourage and support projects that explicitly integrate education and basic research, the Linguistics Program provides support to enhance and improve the dissertation projects conducted by doctoral students enrolled in U.S. universities in linguistics and associated fields. The Linguistics Program supports basic science in the domain of human language, encompassing investigations of the grammatical properties of individual human languages, and of natural language in general. Research areas include syntax, semantics, morphology, phonetics, and phonology. **NSF 14-551**

 The program encourages projects that are interdisciplinary in methodological or theoretical perspective, and that address questions that cross disciplinary boundaries, such as (but not limited to):
* What are the psychological processes involved in the production, perception, and comprehension of language?
* What are the computational properties of language and/or the language processor that make fluent production, incremental comprehension or rapid learning possible?
* How do the acoustic and physiological properties of speech inform our theories of language and/or language processing?
* What role does human neurobiology play in shaping the various components of our linguistic capacities?
* How does language develop in children?
* What social and cultural factors underlie language variation and change?

- **URL:** *https://www.nsf.gov/pubs/2014/nsf14551/nsf14551.htm*

Developmental Sciences (DS)
National Science Foundation (NSF)
Due Date: 7/17/2017, 1/16/2018

DLS supports fundamental research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development and learning. Research supported by this program will add to our basic knowledge of how people learn and the underlying developmental processes that support learning, social functioning, and productive lives as members of society. DLS supports research that addresses developmental processes within the

domains of cognitive, social, emotional, and motor development using any appropriate populations for the topics of interest including infants, children, adolescents, adults, and non-human animals. The program also supports research investigating factors that impact development change including family, peers, school, community, culture, media, physical, genetic, and epigenetic influences. Additional priorities include research that: incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches; develops new methods, models, and theories for studying learning and development; includes participants from a range of ethnicities, socioeconomic backgrounds, and cultures; and integrates different processes (e.g., learning, memory, emotion), levels of analysis (e.g., behavioral, social, neural), and time scales (e.g. infancy, middle childhood, adolescence). The DLS program also accepts proposals for workshops and small conferences. **PD 08-1698**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=8671*

Social Psychology Program
National Science Foundation (NSF)
Due Date: 7/17/2017, 1/16/2018

The program supports basic research on human social behavior, including cultural differences, and development over the life span. Among the many research topics supported are attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, and the psychophysiological and neurophysiological bases of social behavior. **PD 98-1332**

The scientific merit of a proposal depends on four important factors:
1. The problems investigated must be theoretically grounded.
2. The research should be based on empirical observation or be subject to empirical validation.
3. The research design must be appropriate to the questions asked.
4. The proposed research must advance basic understanding of social behavior.

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5712*

Biological Anthropology
National Science Foundation (NSF)
Due Date: 7/20/2017, 1/22/2018

This program supports basic research in areas related to human evolution and contemporary human biological variation. Research areas supported by the program include, but are not limited to, human genetic variation, human adaptation, human osteology and bone biology, human and nonhuman

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primate paleontology, functional anatomy, and primate socioecology. Grants supported in these areas are united by an underlying evolutionary framework, and often a consideration of adaptation as a central theoretical theme. Many proposals also have a biocultural orientation. The program frequently serves as a bridge within NSF between the social and behavioral sciences and the natural and physical sciences, and proposals are commonly jointly reviewed and funded with other programs. **PD 98-1392**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5407*

Cultural Anthropology Program
National Science Foundation (NSF)
Due Date: 8/15/2017 (Senior Research – Fall Funding Cycle), 8/16/2017 (Scholars – Fall Funding Cycle), 1/15/2018 (Senior Research – Spring Funding Cycle), 1/16/2018 (Scholars - Spring Funding Cycle)

The primary objective of the Cultural Anthropology Program is to support basic scientific research on the causes, consequences, and complexities of human social and cultural variability. Anthropological research spans a wide gamut, and contemporary cultural anthropology is an arena in which diverse research traditions and methodologies are valid. Recognizing the breadth of the field's contributions to science, the Cultural Anthropology Program welcomes proposals for empirically grounded, theoretically engaged, and methodologically sophisticated research in all sub-fields of cultural anthropology. Because the National Science Foundation's mandate is to support basic research, the NSF Cultural Anthropology Program does not fund research that takes as its primary goal improved clinical practice or applied policy. **PD 98-1390**

Program research priorities include, but are not limited to, research that increases our understanding of:
- Socio-cultural drivers of critical anthropogenic processes such as deforestation, desertification, land cover change, urbanization, and poverty
- Resilience and robustness of socio-cultural systems
- Conflict, cooperation, and altruism
- Economy, culture, migration, and globalization
- Variability and change in kinship and family norms and practices
- Cultural and social contexts of health and disease
- Social regulation, governmentality, and violence
- Origins of complexity in socio-cultural systems
- Language and culture: orality and literacy, sociolinguistics, and cognition
- Human variation through empirically grounded ethnographic descriptions
- Mathematical and computational models of sociocultural systems such as social network analysis, agent-based models, and integration of agent-based models with geographic information systems (GIS)

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Senior proposals support individual, team, or collaborative research by scholars who hold a PhD, or other equivalent or appropriate credential. Researchers may propose empirically grounded and theoretically engaged projects in any sub-field and theoretical area of cultural anthropology.

The Faculty Scholars Program (see Solicitation 07-544) supports methodological training for cultural anthropologists who wish to learn new skills that are needed as part of an ongoing research program. For example, support may be requested to learn new methods of cross-cultural research, demography, remote sensing and GIS, ecological field survey, linguistics, or modeling. Support may be requested to learn any methodological skill that is necessary to advance the scholar's research agenda, as justified in the proposal with reference to published results from prior work.

- **URL:** *https*://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5388