WICHITA STATE UNIVERSITY
RESEARCH AND TECHNOLOGY TRANSFER

Funding Bulletin

April 7th, 2017 (Vol. 4, No. 13)

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

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How to Apply

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

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

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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	Apr. 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.***
Writing Proposals: Clear, Concise, Consistent (and Successful!) Proposals	Apr. 12	3:00 – 4:30 p.m.	405 Jardine	The Office of Research is again presenting its popular workshop on writing proposals. This workshop will provide grant writing tips and resources to utilize. Funders and their reviewers want proposals that are clear, concise and consistent. Come to this workshop to learn some hands-on approaches to improving your grant-writing skills.
Research Compliance Open Lab	Apr. 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.***
IP Disclosure Form Open Lab	May. 1	2:00 – 4:00 p.m.	Devlin Hall, 2nd Floor	Come with your questions and get assistance completing an IP disclosure form for your ideas, technology, curriculum, research and more. ***This is a come and go lab with no registration required.***

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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/

NSF CAREER Program Webinar – Monday, May 22nd, 2017 (1-3 pm EDT)

https://www.nsf.gov/events/event_summ.jsp?cntn_id=191332&WT.mc_id=USNSF_13&WT.mc_ev=click

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/

Check back in late summer for updated instructions and application forms for both opportunities.

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LIMITED SUBMISSIONS

Limited submission programs have sponsor restrictions on the number of proposals that may be submitted by a single institution and will require institutional screening to determine which applications will be submitted. Karen Davis, Director of Pre-Award Services, is the internal coordinator for limited submission programs. Please notify *proposals@wichita.edu*, by the internal 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 *six* open limited submission competitions:**

(1) NEA Art Works Creativity Connects Projects

National Foundation for the Arts and the Humanities - National Endowment for the Arts (NEA)
Due Date: Internal NOI 4/21/2017; Step-1 Submit SF-424 to Grants.gov 5/4/2017; Step 2 – Submit Materials to NEA-GO 5/18/2017

Creativity Connects is an initiative that will show how the arts are central to the country's creativity ecosystem, investigate how support systems for the arts have changed, explore how the arts connect with other industries, and invest in innovative projects to spark new ideas for the arts field. A key component to the Creativity Connects initiative is a pilot grant opportunity in the Art Works category to support partnerships between arts organizations and organizations from non-arts sectors that include, but are not limited to, business, education, environment, faith, finance, food, health, law, science, and technology. **2017NEA01AWCC *An organization may submit only one application for an Art Works: Creativity Connects grant.***

Art Works: Creativity Connects grants will seek to benefit the arts and non-arts sectors by:
- Demonstrating the value of working with the arts.
- Supporting the infrastructure for the arts to work in new ways with new sectors.
- Building bridges that create new relationships and constituencies.
Creating innovative partnership projects to advance common goals.

- **URL:** *https://www.arts.gov/grants-organizations/art-works/creativity-connects-projects*

(2) Enhancing Science, Technology, EnginEering, and Math Educational Diversity (ESTEEMED) Research Education Experiences (R25)

National Institutes of Health (NIH) - National Institute of Biomedical Imaging and Bioengineering (NIBIB)

Due Date: Internal NOI 4/7/2017; Letter of Intent 4/24/2017; Applications 5/24/2017

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 Biomedical Imaging and Bioengineering (NIBIB) R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Research Experiences and Mentoring Activities for underrepresented undergraduate freshmen and sophomores in a science, technology, engineering, or mathematics (STEM) field, especially those fields which broadly impact bioengineering. The ESTEEMED program is intended to support underrepresented racial and ethnic groups, individuals with disabilities, and individuals from disadvantaged backgrounds. It will prepare these participants for an Advanced Honors Program, such as a MARC U-STAR (T34) program and institutional program with similar goals, in the junior and senior years and subsequently, to pursue a Ph.D. or M.D./Ph.D. degree and a biomedical research career in academia or industry. **PAR-17-221** Only one application per institution is allowed.

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PAR-17-221.html*

(3) Maximizing Access to Research Careers Undergraduate - Student Training in Academic Research (MARC U-STAR) (T34)

National Institutes of Health (NIH) - National Institute of General Medical Sciences (NIGMS)

Due Date: Internal NOI 4/14/2017; Application 5/24/2017

The Maximizing Access to Research Careers (MARC) Undergraduate Student Training in Academic Research (U-STAR) program is designed to provide structured training programs to prepare high-achieving, underrepresented students for doctoral programs in biomedical research fields. Programmatic activities should include authentic research experiences, academic enhancements, skills development, and mentoring. The long-term goal of the program is to enhance the pool of underrepresented students earning baccalaureate and Ph.D. degrees in biomedical research fields and ultimately to contribute to the diversification of the nation's scientific workforce. **PAR-17-068** ***Only one application per institution is allowed.***

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PAR-17-068.html*

(4) 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**

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*

(5) 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. A Lead Institution may also partner on one or more applications submitted by other Lead Institutions.***

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

(6) 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 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*

GENERAL

Global Collaboration: GRO Program
Samsung
Due Date: 6/14/2017

The Global Research Outreach (GRO) Program is an important part of growing SAMSUNG's academic research engagement and collaboration platforms. World-class researchers have been annually invited since 2009 to propose novel research ideas and to work with SAMSUNG's R&D teams to foster technological innovation.

2017 GRO Program is seeking proposals in 26 research themes. Other themes are also welcome.

- Intelligence & recognition
- Neural Processor
- Next Generation Computing
- Mobile/Wearable Technology
- Metaphotonics & Photic Sensors
- Cloud Computing
- Autonomous Driving
- NIR Emitting Materials
- New QD Materials
- Wireless Power Transmission & Energy Harvesting
- Functional Oxide
- AI for Analytical Science
- Semiconductor
- Augmented Reality
- Quantum Computer
- New Device & Circuit Concept
- New Imaging
- Personal Service Robots
- Security & Privacy
- Software Engineering
- 2D Materials & Applications
- High Energy Density Battery with Ultra-Safety Functions
- Multi-functional Optical Films and Coatings
- Material Informatics
- Ultrafast Electron Microscopy
- Dielectric Materials for Next generation Capacitor

- **URL:***http://www.sait.samsung.co.kr/saithome/Page.do?method=main&pagePath=01_about/&pageName=gro_overview*

Multidisciplinary University Research Initiative (MURI)
U.S. Department of Defense (DOD) - Department of the Air Force (USAF) - Air Force Office of Scientific Research (AFOSR) - University Research Initiative (URI)
Due Date: White Papers 7/17/2017; Full Proposals 11/1/2017

The MURI program supports basic science or engineering research at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DOD. The program is

focused on multidisciplinary research efforts that intersect more than one traditional science and engineering discipline to address issues of critical concern to the DOD. As defined by the DOD, "basic research is systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs. It is farsighted high payoff research that provides the basis for technological progress." The DOD's basic research program invests broadly in many specific fields to ensure that it has early cognizance of new scientific knowledge. **N00014-17-S-F006**

White papers and proposals addressing the following topics should be submitted to the Air Force Office of Scientific Research (AFOSR):
- Topic 9: Physically Viable Learning for Control of Autonomous Dynamical Systems
- Topic 10: Nanoscale Vacuum Field Effect Transistors
- Topic 11: Molecular-scale Studies of Liquid-Solid Interfaces in Electrochemical Processes
- Topic 12: Electromagnetic Non-reciprocity via Temporal Modulation
- Topic 13: Heterogeneous Interfaces: Route to New Optoelectronic Properties
- Topic 14: Piezoelectric Nanoenergetic Materials with Adaptable and Tailorable Reactivity
- Topic 15: Advanced Mean-Field Game Theory for Complex Physical & Socio-Economical Systems
- Topic 16: ÃŽÂ²-Ga2O3 as a High-Critical Field Strength Material for Power Systems

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=292520*

Multidisciplinary University Research Initiative (MURI)

U.S. Department of Defense (DOD) - Department of the Army - Army Research Office (ARO)

Due Date: White Papers 7/17/2017; Full Proposals 11/1/2017

The MURI program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD. As defined by the DoD, "basic research is systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs. It is farsighted high payoff research that provides

the basis for technological progress." DoD's basic research program invests broadly in many specific fields to ensure that it has early cognizance of new scientific knowledge. **N00014-17-S-F006**

White papers and proposals addressing the following topics should be submitted to the Army Research Office (ARO):
- Topic 1: Integrated Quantum Sensing and Control for High Fidelity Qubit Operations
- Topic 2: Novel solid- state materials and color centers for quantum science and engineering
- Topic 3: Controlling Protein Function Using Dynamic Chemical Switches to Modulate Structure
- Topic 4: Consolidation of Novel Materials and Macrostructures from a Dusty Plasma
- Topic 5: Embodied Learning and Control
- Topic 6: Coevolution of Neural, Cognitive, & Social Networks: Mind-Body-Community Connections
- Topic 7: Network Games
- Topic 8: Modeling Interdependence among Natural Systems and Human Population Dynamics

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=292520*

Multidisciplinary University Research Initiative (MURI)

U.S. Department of Defense (DOD) - Department of the Navy (U.S. Navy) - Office of Naval Research (ONR) - University Research Initiative (URI)

Due Date: White Papers 7/17/2017; Full Proposals 11/1/2017

The MURI program supports basic science or engineering research at U.S. institutions of higher education that is of critical importance to national defense. The program is focused on multidisciplinary research efforts that intersect more than one traditional science and engineering discipline to address issues of critical concern to the DOD. **N00014-17-S-F006**

White papers and proposals addressing the following topics should be submitted to the Office of Naval Research (ONR):
- Topic 17: Predicting and Validating Pathways for Chemical Synthesis
- Topic 18: Synthetic Microbial Electronics
- Topic 19: Automated Technical Document Comprehension
- Topic 20: Materials for Smart Multifunctional Superstructures [(MS)2]
- Topic 21: Advanced Optical Materials that Create Force from Light
- Topic 22: In situ Microstructural and Defect Evolution below the Micron Scale in as-Deposited Metal Alloys
- Topic 23: Enhancing Thermal Transport at Material Interfaces
- Topic 24: Self-Assessment of Proficiency for Autonomous and Intelligent Systems

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=292520*

Core Funding Areas
John Templeton Foundation
Due Date: Online Funding Inquiries 8/31/2017; Full Proposals 1/31/2018

The Foundation is currently accepting Online Funding Inquiries for its Core Funding Areas. In the charter establishing his Foundation, the late Sir John Templeton set out his philanthropic intentions under several broad headings. These Core Funding Areas continue to guide the Foundation's grantmaking as it works to find world-class researchers and project leaders to share in its pursuit of Sir John's dynamic, contrarian, forward-looking vision. A number of topics - including creativity, freedom, gratitude, love, and purpose - can be found under more than one Core Funding Area. The Foundation welcomes proposals that bring together these overlapping elements, especially by combining the tools and approaches of different disciplines.

Overview of Core Funding Areas
1. Science & the Big Questions
The Foundation has honored Sir John's vision of the Big Questions by supporting a wide range of research projects, as well as other activities of a more practical or educational purpose, in the following areas:
a. Mathematical & Physical Sciences
b. Life Sciences
c. Human Sciences
d. Philosophy & Theology
e. Science in Dialogue

2. Character Development
3. Individual Freedom & Free Markets
4. Exceptional Cognitive Talent & Genius
5. Genetics

- **URL:** *https://www.templeton.org/grants/apply-for-grant*

ARTS & HUMANITIES

Common Heritage
National Endowment for the Humanities (NEH)
Due Date: 6/1/2017

The Common Heritage program aims to capture this vitally important part of our country's heritage and preserve it for future generations. Common Heritage will support both the digitization of cultural heritage materials and the organization of public programming at community events that explore these materials as a window on a community's history and culture. The Common Heritage program recognizes that members of the public, in partnership with libraries, museums, archives, and historical organizations, have much to contribute to the understanding of our cultural mosaic. Together, such institutions and the public can be effective partners in the appreciation and stewardship of our common heritage. The program supports day-long events organized by community cultural institutions, which members of the public will be invited to attend. At these events experienced staff will digitize the community historical materials brought in by the public. Project staff will also record descriptive information, provided by community attendees, about the historical materials. Contributors will be given a free digital copy of their items to take home, along with the original materials. With the owner's permission, digital copies of these materials would be included in the institutions' collections. Historical photographs, artifacts, documents, family letters, art works, and audiovisual recordings are among the many items eligible for digitization and public commemoration. Projects must also present public programming that would expand knowledge of the community's history. Public programs could include lectures, panels, reading and discussion, special gallery tours, screening and discussion of relevant films, presentations by a historian, special initiatives for families and children, or comments by curators about items brought in by the public. These public programs should provide a framework for a deeper understanding of the community members' shared or divergent histories. The programs may take place before, during, and/or after the day of the digitization event. Applicants may but need not include in their proposals a topic around which the event and the public programming would be organized. Topics proposed for the public programming may also be proposed for the digitization event. The applicant institution must plan, promote, and organize the event and ensure that a wide range of historical materials can be digitized and also contextualized through public programming. Since the help of additional institutions and organizations in the community may be needed to accomplish this work, the applicant must take responsibility for enlisting appropriate organizations or institutions, such as local libraries and museums, to contribute to the project, as needed. NEH especially welcomes applications from small and medium-sized institutions that have not previously received NEH support. **20170601-PY**

- **URL:** *https://www.neh.gov/grants/preservation/common-heritage*

Grants

Weill Foundation for Music, Inc., Kurt

Due Date: 6/1/2017 (College/University Performance grants exclusively), 11/1/2017

The Foundation's Grant Program awards financial support worldwide to not-for-profit organizations for performances of musical works by Kurt Weill and Marc Blitzstein, to individuals and not-for-profit organizations for scholarly research pertaining to Kurt Weill, Lotte Lenya, and Marc Blitzstein, and to not-for-profit organizations for relevant educational or scholarly initiatives.

Funding Categories:

1. Performance

a. Professional Performance

Funding may be requested by professional opera companies, theater companies, dance companies, and concert groups for performances of musical works by Kurt Weill and/or Marc Blitzstein.

b. College/University Performance

Grants are awarded to colleges and universities in support of general production expenses for performances of Kurt Weill's and/or Marc Blitzstein's stage works, and to cover musical expenses in connection with performances of Weill's or Blitzstein's concert works.

2. Media

3. Scholarly Symposia/Conferences; Educational Outreach; Community Engagement

4. Kurt Weill Mentors

5. Kurt Weill Dissertation Fellowship

6. Publication Assistance

7. Research and Travel

- **URL:** *http://www.kwf.org/pages/grant-program.html*

Art-in-Education Artist Book Residency

Women's Studio Workshop

Due Date: 11/15/2017

The mission of the Women's Studio Workshop in Rosendale, New York, is to operate and maintain a workspace that encourages the voice and vision of individual women artists, provide professional opportunities for women artists at various stages of their careers, and promote programs designed to stimulate public involvement, awareness, and support for the visual arts. In support of that mission, WSW is accepting applications for its Art-in-Education Artist's Book Grant. Through the program, eight- to ten-week residencies will be awarded to two emerging women artists to create a new artist's book and teach young people. Generally, the resident dedicates her first month to producing a limited-edition artist's book that is hand-printed and bound in the studio. WSW can provide technical advice;

training on new equipment, techniques, and materials; and production assistance. During the second half of the residency, the artist works with young people in WSW's studios, teaching one to two days/week for three to four weeks and visiting the students twice in school. Studio space and equipment is reserved for students during program hours, but artists may work at any time outside AIE. The program provides a stipend of $350 per week for up to ten weeks, up to $750 for materials, up to $250 for travel within the continental United States, free onsite housing, and 24/7 studio access during non-AIE sessions.

- **URL:** *http://www.wsworkshop.org/residencies/art-in-ed-artists-book-residency-grant/*

EDUCATION

Assistance for Arts Education Programs – Professional development for Arts Educators Grants
U.S. Department of Education (ED) – Office of Innovation and Improvement (OII)
Due Date: Notices of Intent 4/27/2017; Applications 5/30/2017

Notice seeking applications supporting the implementation of high-quality model professional development programs for arts educators and other instructional staff in the areas of music, dance, drama, media arts, and visual arts, including folk arts, for students in kindergarten through grade 12 in which 50 percent or more of the students are from low-income families. Preference is given to programs focused on "Leveraging Technology to Support Instructional Practice and Professional Development Projects". ***Opportunities exist for IHEs to partner with LEAs.***

- **URL:** *https://www.federalregister.gov/documents/2017/03/28/2017-06123/applications-for-new-awards-assistance-for-arts-education-programs-professional-development-for-arts*

CCCC Advancement of Knowledge Award
National Council of Teachers of English (NCTE) - Conference on College Composition and Communication (CCCC)
Due Date: Nominations 7/15/2017

The Advancement of Knowledge Award is presented annually for the empirical research publication in the previous two years that most advances writing studies. A work eligible for the 2017 award will have been published in calendar year 2016 or 2017.

- **URL:** *http://www.ncte.org/cccc/awards/advknowledge*

ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

Dear Colleague Letter: Research on Integrated Photonics Utilizing AIM Photonics Capabilities
National Science Foundation (NSF) (NSF 17-073)

- **URL:***https://www.nsf.gov/pubs/2017/nsf17073/nsf17073.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click*

Dear Colleague Letter: Encouraging Submission of Industry/University Cooperative Research Centers (IUCRC) Proposals in Areas Related to the Internet of Things
National Science Foundation (NSF) (NSF 17-072)

- **URL:***https://www.nsf.gov/pubs/2017/nsf17072/nsf17072.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click*

Dear Colleague Letter: Simulated and Synthetic Data for Infrastructure Modeling (SSDIM)
National Science Foundation (NSF) (NSF 17-074)

- **URL:***https://www.nsf.gov/pubs/2017/nsf17074/nsf17074.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click*

NSF-CBMS Regional Research Conferences in the Mathematical Sciences
National Science Foundation (NSF)
Due Date: 4/28/2017

The NSF-CBMS Regional Research Conferences in the Mathematical Sciences are a series of five-day conferences each of which features a distinguished lecturer delivering ten lectures on a topic of important current research in one sharply focused area of the mathematical sciences. CBMS refers to the Conference Board of the Mathematical Sciences which publicizes the conferences and administers the resulting publications. Support is provided for about 30 participants at each conference. Proposals should address the unique characteristics of the NSF-CBMS conferences, outlined in the Program Description. **NSF 13-550**

- **URL:** *https://www.nsf.gov/pubs/2013/nsf13550/nsf13550.htm*

World Modelers
United States Department of Defense (DOD) - Defense Advanced Research Projects Agency (DARPA)
Due Date: 5/11/2017

DARPA is soliciting innovative research proposals in the area of causal modeling, forecasting, and analysis techniques. Proposed research should investigate innovative approaches that enable revolutionary advances in science, mathematics, or technology. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. **HR001117S0017**

The five technical areas for the World Modelers solicitation are:
- A1: Build Qualitative Models from Online Sources. Machine-assisted construction of comprehensive, targeted, causal, qualitative, analysis graphs. "Which factors should be in a particular analysis and how are they related?"
- TA2: Workflow Compiler (for Integration of Quantitative Models). Machine-assisted marriage of qualitative with quantitative analysis. "Which quantitative models should be in the analysis and how do they connect to each other and run in a common computational environment?"
- TA3: Parameterize Models. Machine-assisted foraging for data from multiple sources, machine-assisted translation of available data into proxies for required parameters. "Where are the data to parameterize quantitative models, and what are the mappings between available data and required parameters?"
- TA4: From Scenarios to Actions. Interfaces for humans to specify scenarios, machine-assisted recommendation and testing of interventions. "What will be the effects of particular actions under particular conditions?"
- TA5: Uncertainty Reports. Machine-assisted, thorough analysis of sources of uncertainty and efforts to reduce it. "Can the analysis be trusted, and what can be done to improve it?"

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=292785*

Advanced Technology Demonstration topic entitled "Development, Characterization, and Demonstration of a Carbon Nanotube-Based Large-Gage Cable (with terminations)"
U.S. Department of Defense (DoD) – Navy – Office of Naval Research (ONR)
Due Date: 7/14/2017 (Late proposals will still be reviewed and considered under this Special Notice until September 20, 2017)

Notice seeking applications to develop and demonstrate a prototype power distribution cable utilizing CNT-based conductors to provide a significant reduction in weight and equal or reduced volume relative to equivalent copper and aluminum-based cabling presently used on various

platforms. Specifically, an improvement in the metric of mass/conductivity relative to current copper and aluminum-based cabling is desired. **N00014-17-R-SN01**

- **URL:***https://www.fbo.gov/index?s=opportunity&mode=form&id=f3dabdb4af80df99d9532d5ccca5b271&tab=core&_cview=0*

Catalysis
National Science Foundation (NSF)
Due Date: 10/20/2017

The goal of the Catalysis program is to advance research in catalytic engineering science and promote fundamental understanding and the development of catalytic materials and reactions that are of benefit to society. Research in this program should focus on new basic understanding of catalytic materials and reactions, utilizing synthetic, theoretical, and experimental approaches. Target applications include fuels, specialty and bulk chemicals, environmental catalysis, biomass conversion to fuels and chemicals, conversion of greenhouse gases, and generation of solar hydrogen, as well as efficient routes to energy utilization. Heterogeneous catalysis represents the main thrust of the program. Proposals related to both gas-solid and liquid-solid heterogeneous catalysis are welcome, as are proposals that incorporate concepts from homogeneous catalysis.

Topic areas that are of particular interest include:
1. Renewable energy-related catalysis with applications in electrocatalysis, photocatalysis, and catalytic conversion of biomass-derived chemicals. Catalysis aimed at closing the carbon cycle (especially conversion of CO2, methane, and natural gas to fuels and chemical intermediates).
2. Catalytic alternatives to traditionally non-catalytic reaction processes, as well as new catalyst designs for established catalytic processes.
3. Environmental catalysis (including energy-efficient and green routes to fuels and chemicals).
4. Catalytic remediation of feedstocks, process streams, products, or effluents.
5. Commercially scalable methods of catalyst synthesis.
6. New catalytic materials and architectures (especially those substituting earth-abundant materials for precious and noble metal catalysts).
7. Basic understanding of catalytic materials, reaction pathways, kinetics, and surface mechanisms.
8. Durable, poison-resistant, and easily regenerable catalyst formulations and designs.
9. Advances in tools for catalyst characterization and theoretical/computational catalysis.

Proposals that deal with new catalytic materials, especially materials for photocatalysts, with their inherent complexity, will be enhanced by including plans to assess: 1) reproducibility and repeatability of data, 2) stability under realistic operating conditions including start-up and shut-down cycles, 3) performance relative to standard or well-known reference materials, and 4) quantitative, well-accepted measures of catalyst activity and catalytic efficiency, such as turnover frequencies and

turnover numbers, quantum and/or photon yields of photocatalysts, and detailed product analyses and mass balances for the targeted application. Proposals focused on biocatalytic processes, including proposals focusing on enzyme engineering, cellular and biomolecular processes, should now be submitted to the Biotechnology and Biochemical Engineering (CBET 1491) program. Projects that are interdisciplinary in nature may be jointly funded with other CBET and NSF programs. **PD 17-1401**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505323*

Disability and Rehabilitation Engineering
National Science Foundation (NSF)
Due Date: 10/20/2017

The Disability and Rehabilitation Engineering program is part of the Engineering Biology and Health cluster, which includes also 1) Cellular and Biochemical Engineering; 2) Engineering of Biomedical Systems; 3) Biophotonics; and 4) Nano-Biosensing.

The Disability and Rehabilitation Engineering program supports fundamental engineering research that will improve the quality of life of persons with disabilities through: development of new technologies, devices, or software; advancement of knowledge regarding normal or pathological human motion; or understanding of injury mechanisms. Research may be supported that is directed toward the characterization, restoration, rehabilitation, and/or substitution of human functional ability or cognition, or to the interaction of persons with disabilities and their environment may be supported. Areas of particular interest are neuroengineering and rehabilitation robotics. The program will also consider research in the area of: new engineering approaches to understanding normal or pathological motion, both as a target for rehabilitation and as a means to characterize motion related to disability or injury; or, understanding injury at the tissue or system-level such that interventions may be developed to reduce the impact of trauma and subsequent disability. Emphasis is placed on significant advancement of fundamental engineering knowledge that facilitates transformative outcomes. We discourage applications that propose incremental improvements. Applicants are encouraged to contact the Program Director prior to submitting a proposal. **PD 17-5342**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505335*

Engineering of Biomedical Systems
National Science Foundation (NSF)
Due Date: 10/20/2017

The Engineering of Biomedical Systems program is part of the Engineering Biology and Health cluster, which includes also 1) Cellular and Biochemical Engineering; 2) Biophotonics; 3) Nano-Biosensing; and 4) Disability and Rehabilitation Engineering.

The goal of the Engineering of Biomedical Systems (EBMS)program is to provide research opportunities to develop novel ideas into discovery-level and transformative projects that integrate engineering and life sciences in solving biomedical problems that serve humanity in the long-term. EBMS projects must be at the interface of engineering and biomedical sciences and include objectives that advance both engineering and biomedical sciences. The projects should focus on high impact transformative methods and technologies. Projects should include: methods, models and enabling tools for understanding and controlling living systems; fundamental improvements in deriving information from cells, tissues, organs, and organ systems; or new approaches to the design of systems that include both living and non-living components for eventual medical use in the long-term.

The EBMS program supports fundamental and transformative research in the following areas of biomedical engineering:

- Development of validated models (living or computational) of normal and pathological tissues and organ systems that can support development and testing of medical interventions
- Design of systems that integrate living and non-living components for improved diagnosis, monitoring, and treatment of disease or injury
- Advanced biomanufacturing of three-dimensional tissues and organs
- Design and subsequent application of technologies and tools to investigate fundamental physiological and pathophysiological processes

Innovative proposals outside of these specific areas of biomedical engineering may be considered. However, prior to submission, it is strongly recommended that the PI contacts the Program Director to avoid the possibility of the proposal being returned without review. Related programs also fund biomedical engineering research, and PIs are encouraged to investigate these to find the appropriate program for submission. The long-term impact of the projects can be related to fundamental understanding of cell and tissue function in normal and pathological conditions, effective disease diagnosis and/or treatment, or improved health care delivery. The EBMS program does not support clinical studies or proposals having as their central theme drug design and delivery or the development of biomedical devices that do not include a living biological component. For consideration by the EBMS Program, proposals that advance the design of tools or technologies should also apply those technologies to advance knowledge in biomedical science. Furthermore, although research on

biomaterials, cellular biomechanics, or manufacturing systems may constitute a part of the proposed studies, such research cannot be the central theme or key focus area of the proposed work. **PD 17-5345**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501023*

Fluid Dynamics
National Science Foundation (NSF)
Due Date: 10/20/2017

The Fluid Dynamics program supports fundamental engineering research on mechanisms and phenomena governing fluid flow from the molecular to the macroscopic scale. Proposed research should contribute to basic understanding of fluid flow phenomena, thus enabling the better design, predictability, efficiency, and control of systems that involve fluids. Areas of emphasis are proposals that address the behavior of new fluid materials and innovative uses of fluids in manufacturing, energy and the environment, materials development, biotechnology, nanotechnology, sensor development, clinical diagnostics and drug delivery. While the research should focus on fundamentals, a clear connection to potential applications with significant societal/technological impact should be outlined.
Major areas of interest include:
1. Bio-inspired Fluid Mechanics and Bio-flows: biomimetics; intracellular flows; fluid-structure interactions; hemodynamics; swimmers; insect flight; fins; biological flow processes; flows in biomedical devices; drug delivery.
2. Flow of Complex Fluids: non-Newtonian fluid mechanics; viscoelasticity; flow of polymer solutions and melts; gelation; flow-induced structuring; DNA dynamics; new fluid materials.
3. Micro- and Nano-fluidics: micro-and nano-scale flow phenomena; biomedical microdevices; effects of nano-inclusions on rheological properties; molecular dynamics simulations; optofluidics.
4. Turbulence and Transition: theory; high Reynolds number experiments; large eddy simulation; direct numerical simulation; transition to turbulence; 3-D boundary layers; multi-phase turbulent flows; flow control and drag reduction.
5. Interfacial Interactions and Instabilities: hydrodynamic stability; gas-liquid interfaces; splashing; jetting; droplet interactions; atomization; wetting.
6. Instrumentation and Flow Diagnostics: Instrument development; MEMS; shear stress sensors; novel flow imaging; velocimetry.
Proposals on wind and ocean energy harvesting and on environmental flows could be submitted to the program when the proposed research is focused on fundamental fluid dynamics phenomena or on the development of novel computational fluid dynamics approaches, rather than applications or devices and materials. **PD 17-1443**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13365*

Process Separations
National Science Foundation (NSF)
Due Date: 10/20/2017

The Process Separations program is part of the Chemical Process Systems cluster, which includes also 1) Catalysis; 2) Process Systems, Reaction Engineering, and Molecular Thermodynamics; and 3) Energy for Sustainability.
The Process Separations program supports research focused on novel methods and materials for separation processes, such as those central to the chemical, biochemical, bioprocessing, materials, energy, and pharmaceutical industries. A fundamental understanding of the interfacial, transport, and thermodynamic behavior of multiphase chemical systems as well as quantitative descriptions of processing characteristics in the process-oriented industries is critical for efficient resource management and effective environmental protection. The program encourages proposals that address long standing challenges and emerging research areas and technologies, have a high degree of interdisciplinary work coupled with the generation of fundamental knowledge, and the integration of education and research.

Research topics of particular interest include fundamental molecular-level work on:
- Design of scalable mass separating agents and/or a mechanistic understanding of the interfacial thermodynamics and transport phenomena that relate to purification of gases, chemicals, or water
- Design or improvement of mass separation agents or processes that are based upon, and advance, transport principles
- Downstream purification of biologically derived chemicals for increased throughput
- Field (flow, magnetic, electrical) induced separations and other innovative approaches that address a significant reduction in energy and/or materials requirements in the process industries

NOTE: Proposals concerning the separation of components from blood with simultaneous detection using sensors for the purpose of biomedical diagnostic should be redirected to the Nano-Biosensing program (7909). Proposals that deal with deployment or improved performance of existing materials for water purification should be redirected to the Environmental Engineering program (1440). **PD 17-1417**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13363*

Process Systems, Reaction Engineering and Molecular Thermodynamics
National Science Foundation (NSF)
Due Date: 10/20/2017

The goal of the Process Systems, Reaction Engineering and Molecular Thermodynamics (PRM) program is to advance fundamental engineering research on the rates and mechanisms of important classes of catalyzed and uncatalyzed chemical reactions as they relate to the design, production, and application of catalysts, chemical processes, biochemical processes, and specialized materials that have important impacts on society. The program seeks to advance electrochemical and photochemical processes of engineering significance or with commercial potential, design and optimization of complex chemical and biochemical processes, thermodynamic modeling and experiments that relate molecular dynamics to macroscopic properties and behavior, dynamic modeling and control of process systems and individual process units, reactive processing of polymers/ceramics/thin films, and interactions between chemical reactions and transport processes in reactive systems, for the integration of this information into the design of complex chemical and biochemical reactors. A substantial focus of the PRM program is to impact the chemical manufacturing enterprise by funding projects aimed at zero emissions and environmentally-friendly, smart manufacturing using sustainable materials. Areas that focus on reactors of all types (fuel cells, batteries, microreactors, biochemical reactors, etc.), reactor design in general, and design and control of all systems associated with energy from renewable sources have a high priority for funding.

Proposals should focus on:
- Chemical Reaction Engineering
- Process Design and Control
- Reactive Polymer Processing
- Molecular Thermodynamics

For PRM proposals involving aspects of sustainable chemistry, consider making proposal submissions to this program (1403). **PD 17-1403**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505324*

Thermal Transport Processes (TTP)
National Science Foundation (NSF)
Due Date: 10/20/2017

The TTP program supports engineering research aimed at gaining a basic understanding of the thermal transport phenomena and processes that are driven by thermal gradients and manipulating of these processes to achieve engineering goals. Of specific interest is research that explores active and passive control of the dynamics of thermal processes, and simulations and experiments that bridge and model information across multiple scales. **PD 17-1406**

Application areas of interest include:
- Cooling and heating of components, devices and equipment.
- Thermal transport processes in: energy conversion & storage; power generation; physiologic systems; and propulsion.

Priority is given to insightful investigations of fundamental problems with clearly defined economic, environmental and societal impacts.

Note that proposals that focus primarily on the following issues are NOT of interest to the TTP program:
- Designing materials and their thermal properties
- Thermal transport in materials synthesis and/or processing; these proposals should be directed to the Materials Engineering and Processing (MEP) program in ENG/CMMI or the Division of Materials Research (DMR) in the Mathematical and Physical Sciences (MPS) Directorate.
- Mass transport or system design-oriented efforts.

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505328*

ACS National Awards
American Chemical Society (ACS)
Due Date: 11/1/2017

The ACS National Awards program is designed to encourage the advancement of chemistry in all its branches, to support research in chemical science and industry, and to promote the careers of chemists.

- **URL:** *https://www.acs.org/content/acs/en/funding-and-awards/awards/national.html*

Strategic Technologies
United States Department of Defense (DOD) - Defense Advanced Research Projects Agency (DARPA) - Strategic Technology Office
Due Date: 3/21/2018

DARPA is seeking innovative ideas and disruptive technologies that provide the U.S. military significant capability improvement to dominate across all scales of conflict intensity. These span highly contested force-on-force conflicts to ambiguous, complex "Gray Zone" conflicts1. Technologies should support conflicts that may take place in a range of environments from austere, remote locations to dense megacities. The Strategic Technology Office (STO) focus areas within these broader objectives include: Situation Understanding, Multi-Domain Maneuver, Hybrid Effects, System of Systems (SoS), Maritime Systems, System of System- Enhanced Small Units (SESU), and Foundational Strategic Technologies and Systems. Research supporting any of STO's broad mission objectives identified in the Funding Opportunity Description above may be submitted under this BAA. **DARPA-BAA-16-18**

- **URL:** *https://www.grants.gov/web/grants/view-opportunity.html?oppId=292671*

HEALTH, LIFE & EARTH SCIENCES

Research Opportunities in Space and Earth Sciences (ROSES) - Laboratory Analysis of Returned Samples
National Aeronautics and Space Administration (NASA)
Due Date: Step-1 Proposals 4/26/2017; Step-2 Proposals 6/29/2017

The goal of the Laboratory Analysis of Returned Samples (LARS) Program is to maximize the scientific return from the samples provided by missions such as Genesis, Stardust, and Hayabusa (see further below) through development of laboratory instrumentation and advanced analytical techniques required for the complete analyses of the samples they return. In addition, this program supports analytical work on samples returned by recent Planetary Science Division missions, including Genesis and Stardust, as well as samples returned by Hayabusa. Proposals solicited under this program include those that seek to develop new analytical instrumentation or combinations of analytical instruments, or new components of analytical instruments, leading to significant improvements in the precision, resolution, or sensitivity of measurements compared to the existing state of the art. Also of interest are proposals for the development of new analytical techniques for existing instrumentation that will push the limits of current

technology, for example, by the elimination of analytical interferences or contamination problems. In all cases, both the development efforts and the clear relevance to NASA sample- return missions must be clearly documented in the proposals. Proposals may seek to develop analytical capabilities for future sample-return missions. However, work that addresses the needs of current or selected missions have the highest priority. Some proposals may seek to develop instrumentation and techniques that will be used by only a small number of investigators at a single institution. However, in other instances, the high cost of the instrument and its associated support structure may allow the development of only a limited number of such facilities that must be shared by the entire research community. For these larger and more expensive facilities, proposers should include detailed plans for facility management based on the size of the anticipated user base, including facility oversight, the fraction of time that will be made available to outside users, and the mechanism for allotting such time on a regular basis. In all cases, cost-sharing arrangements in the development of new instrumentation or techniques and evidence of a long-term institutional commitment to the analysis of returned samples will be viewed favorably in the selection process. Collaborations between instrument builders and scientists who understand the samples to be analyzed are encouraged. Ongoing laboratory support (e.g., service contracts) will generally not be supported. This program supports analysis of extraterrestrial samples from sample return missions, with the exception of lunar samples, whose analysis is supported by LDAP (C.8) and Solar System Workings (C.3). Also excluded from LARS, but included in the C.2 Emerging Worlds (C.2) program, are analyses of meteorites or cosmic dust, unless these analyses are directly in support of the interpretation of mission data. **NNH17ZDA001N-LARS**

- **URL:***https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={57316846-9FA6-D02B-DA5D-637D7C3D5F9B}&path=open*

Integration and Validation of Emerging Technologies to Accelerate Cancer Research (R33)
National Institutes of Health (NIH) - National Cancer Institute (NCI)
Due Date: 5/10/2017 (Optional Letters of Intent due 30 days prior to application due date)

This Funding Opportunity Announcement (FOA) is associated with the Beau Biden Cancer MoonshotSM Initiative that is intended to accelerate cancer research. The purpose of this FOA is to promote research on the advanced development and rigorous validation of new enabling technologies/tools/capabilities with a transformative potential for cancer research and clinical oncology.

Specifically, this FOA targets the following four areas designated as scientific priorities:
- Enhanced experimental and analytical capabilities addressing complexities of cancer development;
- New capabilities advancing precise clinical diagnosis of cancer patients;
- Novel predictive ex vivo and/or in silico modeling approaches; and
- New technologies/approaches to improve biospecimen and data quality.

Applications must be focused on one of these areas and must be based on comprehensive preliminary data substantiating the potential of the proposed technologies/tools/capabilities and the functionality their contributing components. Essential aspect is a rigorous technical validation to ensure that the transformative, enabling potential of the proposed technologies/tools/capabilities for cancer research and/or clinical care is thoroughly verified by the end of the project period. **RFA-CA-17-023**

- **URL:** *https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-17-023.html*

Consumer Assessment of Healthcare Providers and Systems V (CAHPS V) (U18)
Agency for Healthcare Research and Quality (AHRQ)
Due Date: 5/26/2017 (Letters of Intent due 30 days prior to application due date)

The purpose of this RFA is to continue the work of the Consumer Assessment of Healthcare Providers and Systems (CAHPS) program which AHRQ began in 1995. For the past 21 years, the CAHPS team -- CAHPS grantees, the CAHPS Survey User Network, and AHRQ CAHPS staff -- has advanced the science of patients' experience, particularly through the development of CAHPS surveys and related materials that allow consumers to assess their quality-related experiences with their health plans, providers, and health care facility settings. The CAHPS surveys are now broadly used by governmental agencies and organizations such as the Centers for Medicare and Medicaid Services (CMS), other health care purchasers, and the National Committee for Quality Assurance for a variety of different purposes such as value-based purchasing, public reporting, and accreditation. Specifically, this RFA solicits research to be performed within five broad areas: a) Advancing the science of consumer assessment of patient experience; b) Continued innovation to ensure relevance to health services delivery and survey best practices; c) Reporting patient experience data; d) Quality improvement (QI) studies; and e) Developing internal and external program communication strategies. Each of these areas is described in detail in Part 2. Full Text of the Announcement. **RFA-HS-17-010**

- **URL:** *https://grants.nih.gov/grants/guide/rfa-files/RFA-HS-17-010.html*

Hearing Health Care for Adults: Improving Access and Affordability (R01)
National Institutes of Health (NIH) - National Institute on Deafness and Other Communication Disorders (NIDCD)
Due Date: 6/5/2017, 10/5/2017, 2/5/2018 (Standard NIH due dates apply)

This FOA encourages applications for research on hearing health care in adults in support of improving access and affordability. Further research is needed to strengthen the evidence base with a goal of delivering better hearing health care outcomes in adults. **PA-17-202**

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PA-17-202.html*

Advancing the Science of Geriatric Palliative Care
National Institutes of Health (NIH) - National Institute on Aging (NIA)
Due Date: Standard NIH due dates apply – see below for specific mechanism

This Funding Opportunity Announcement (FOA) encourages exploratory or developmental research grant applications to develop new tools, methods, and models focused on palliative care in geriatric populations. This FOA covers studies in a variety of settings including hospitals (and specific sites within hospitals including specialty medical or surgical wards, intensive care units, and emergency departments), post-acute care settings, outpatient clinics and doctors' offices, patients' homes and other residential settings, assisted living facilities, nursing homes, hospices, and other healthcare or community settings. This FOA encourages both prospective studies and analyses of existing datasets, health and medical records, claims data, or other sources. Leveraging ongoing cohorts, intervention studies, networks, data and specimen repositories, and other existing research resources and infrastructure are encouraged. Study designs may include observational approaches, quasi-experimental designs, and limited interventional studies where feasible for this mechanism.

R01 (PA-17-225) – Due Dates: 6/5/2017, 10/5/2017, 2/5/2018

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PA-17-225.html*

R21 (PA-17-226) – Due Dates: 6/16/2017, 10/16/2017, 2/16/2018

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PA-17-226.html*

Mechanisms of Alcohol-associated Cancers
National Institutes of Health (NIH)
Due Date: Standard NIH due dates apply – see below for specific mechanism

This Funding Opportunity Announcement (FOA) invites applications investigating the cellular and molecular mechanisms by which alcohol increases cancer risk. Alcohol consumption is classified as carcinogenic to humans by the International Agency for Research on Cancer (IARC; 2010, 2012) and the National Toxicology Program (NTP; 2014) of the US Department of Health and Human Services. Target sites for alcohol-related carcinogenesis include the upper aerodigestive tract, breast, liver, and colon. A better understanding of the molecular basis by which alcohol increases cancer risk for certain tissues and organs could lead to improved therapeutic approaches and preventative strategies and would provide guidance on safe levels of alcohol consumption.

R01 (PA-17-220) – Due Dates: 6/5/2017, 10/5/2017, 2/5/2018

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PA-17-220.html*

R21 (PA-17-219) – Due Dates: 6/16/2017, 10/16/2017, 2/16/2018

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PA-17-219.html*

Innovative Research in Cancer Nanotechology (IRCN) (R01)
National Institutes of Health (NIH) – National Cancer Institute (NCI)
Due Date: 11/21/2017, 5/23/2018, 11/20/2018

This Funding Opportunity Announcement (FOA) encourages applications for the development of innovative research projects in cancer nanotechnology. This initiative, to be known as Innovative Research in Cancer Nanotechnology (IRCN), is a component of a broader program that is the NCI Alliance for Nanotechnology in Cancer. IRCN awards are designed to enable multidisciplinary research and transformative discoveries in cancer biology and/or oncology through the use of nanotechnology. Proposed projects should address major barriers in cancer biology and/or oncology using nanotechnology and should emphasize fundamental understanding of nanomaterial and/or nanodevice interactions with biological systems. This scope includes research concerning the delivery of nanoparticles and/or nanodevices to desired and intended cancer targets *in vivo* and/or characterization of *in vitro* detection and diagnostic devices. **PAR-17-240**

- **URL:** *https://grants.nih.gov/grants/guide/pa-files/PAR-17-240.html*

LIBRARY

OCLC/ALISE Library & Information Science Research Grant Program (LISRGP)
Online Computer Library Center (OCLC)
Due Date: 9/15/2017

OCLC Online Computer Library Center, Incorporated and OCLC Research, in collaboration with the Association for Library and Information Science Education (ALISE), announce the Library and Information Science Research Grant Program (LISRGP) and invite research proposals. In recognition of the importance of research to the advancement of librarianship and information science, OCLC and ALISE promote independent research that helps integrate new technologies that offer innovative approaches and contributes to a better understanding of the information environment and user expectations and behaviors.

Research related (but not limited) to the following areas is encouraged:
- The major OCLC Research themes listed at: http://www.oclc.org/research/activities.html
- Impact of digital technology on libraries, museums, and archives
- Social media, learning, and information-seeking behavior
- New developments in knowledge organization (metadata, social tagging, linked data, etc.)

- **URL:** *http://www.oclc.org/research/grants/call.html*

SOCIAL & BEHAVIORAL SCIENCES

Decision, Risk and Management Sciences (DRMS)
National Science Foundation (NSF)
Due Date: 8/18/2017, 1/18/2018

The Decision, Risk and Management Sciences program supports scientific research directed at increasing the understanding and effectiveness of decision making by individuals, groups, organizations, and society. Disciplinary and interdisciplinary research, doctoral dissertation research improvement grants (DDRIGs), and workshops are funded in the areas of judgment and decision making; decision analysis and decision aids; risk analysis, perception, and communication; societal and public policy decision making; management science and organizational design. The program also supports small grants that are time-critical (Rapid Response Research - RAPID) and small grants that are high-risk and of a potentially transformative nature (EArly-Concept Grants for Exploratory Research - EAGER). **PD 98-1321**

- **URL:** *https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5423*

STUDENTS

Susan R. Meisinger Fellowship for Graduate Study in HR
Society for Human Resource Management (SHRM) - SHRM Foundation
Due Date: 8/15/2017

The Fellowship is a source of funding for first-time master's degree students in Human Resources. The award honors former SHRM President & CEO, Susan R. Meisinger, SPHR. Sponsored jointly by SHRM, the SHRM Foundation and the HR Certification Institute, the fellowship supports those who want to leverage significant past contributions to the HR management field and who plan to continue contributing to the profession by earning a master's degree in HR. There are limits on the types of master's degrees or universities the fellowship can support. The qualifying degree program must be offered by an accredited university with an equal commitment to both teaching and research. An institution with a robust research faculty and scholarly research program provides the strongest environment for fellowship study. Results of faculty's scholarly research efforts should be published in refereed (blind peer-reviewed) A-level scholarly journals, for example. The fellowship supports study in a business or human resources master's program accredited through a reputable accrediting organization.

- **URL:** *https://www.shrm.org/about-shrm/Pages/meisinger.aspx#sthash.qgDHlfWI.dpuf*