Funding Opportunities Newsletter
Office of Sponsored Programs
Proposal Development
February 24, 2017

The Proposal Development unit within the Office of Sponsored Programs publishes this notice on a bi-weekly basis. If you are interested in any of the opportunities listed, and would like review/editing assistance with a proposal, please contact Carol Brodie at 5-1328, carol.brodie@unlv.edu. However, for opportunities from foundations, please contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu. Please see the Proposal Development website, http://www.unlv.edu/research/proposal for a complete list of our office’s services. An archive of these newsletters can be found at http://www.unlv.edu/research/archives

Announcements

Opportunities for Students ........................................................................................................................................... 1
Opportunities for Students ........................................................................................................................................... 1
Arts and the Humanities .................................................................................................................................................. 2
Education, Business and Social Sciences .................................................................................................................... 3
Science, Mathematics and Engineering ....................................................................................................................... 4
Medical/Health/Behavioral Sciences ........................................................................................................................... 10

---------------------------------------------

Announcements

Recent Limited Submissions announcements are as follows:

<table>
<thead>
<tr>
<th>Agency</th>
<th>Opportunity Title</th>
<th>Deadline to Notify OSP</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEH</td>
<td>Humanities Access Grants</td>
<td>March 3, 2017</td>
</tr>
</tbody>
</table>

*Note: A pre-proposal is required upon notification to OSP of interest. Contact carol.brodie@unlv.edu for pre-proposal requirements.

Hold the Date – UNLV Foundation Proposal Writing Seminar

The UNLV Foundation will host a free Proposal Writing Seminar on Wednesday May 17, 2017 from 9am to 4pm in the Foundation Building’s Blasco Event Wing. The goal of the seminar is to make anyone who participates in the full day a better grant proposal writer, and to improve researcher chances of getting projects funded--whether writing for private or government grants. Additional details are forthcoming.

Opportunities for Students

UNLV’s Office of Undergraduate Research (OUR) has information on their website about research and funding opportunities for undergraduate students. Check them out here: http://www.unlv.edu/our

The Office of Sponsored Programs maintains a list of financial resources for both graduate and undergraduate students: http://www.unlv.edu/research/financial-resources-graduate-and-undergraduate-students

Association for the Sociology of Religion - Fichter Research Grants

http://www.sociologyofreligion.com/lectures-papers/fichter-research-grant-competition/

Fichter Research Grants are awarded annually by ASR to members of the Association involved in promising sociological research on women in religion or on the intersection between religion and gender or religion and sexualities. A total of $12,000 is available to be awarded annually, and this amount is usually distributed among several of the leading applications in the year’s competition. Dissertation research qualifies for funding, as does postdoctoral research by junior and senior scholars. Although these grants are open to scholars who are pursuing or currently have a Ph.D. in a range of disciplines, the proposed research must be sociological in nature. Applicants must also be members of the Association for the Sociology of Religion at the time of application.

Deadline: May 1, 2017
National Institutes of Health - Mental Health Research Dissertation Grant to Increase Diversity (R36)


The purpose of this Funding Opportunity Announcement (FOA) is to enhance the diversity of the mental health research workforce by providing dissertation awards in all research areas within the strategic priorities of the NIMH to individuals from diverse backgrounds underrepresented in biomedical, behavioral, clinical and social sciences research. This two-year award supports the completion of the doctoral research project.

Deadlines:
Application Due Date(s): April 27, 2017, August 22, 2017, December 22, 2017, April 23, 2018, by 5:00 PM local time of applicant organization.
AIDS-related applications: Jan. 7, May 7, Sep. 7.
PAR-15-181 Expiration Date: May 8, 2018

Arts and the Humanities

Association for the Sociology of Religion - Fichter Research Grants

http://www.sociologyofreligion.com/lectures-papers/fichter-research-grant-competition/

Fichter Research Grants are awarded annually by ASR to members of the Association involved in promising sociological research on women in religion or on the intersection between religion and gender or religion and sexualities. A total of $12,000 is available to be awarded annually, and this amount is usually distributed among several of the leading applications in the year’s competition. Dissertation research qualifies for funding, as does postdoctoral research by junior and senior scholars. Although these grants are open to scholars who are pursuing or currently have a Ph.D. in a range of disciplines, the proposed research must be sociological in nature. Applicants must also be members of the Association for the Sociology of Religion at the time of application.
Deadline: May 1, 2017

Endangered Language Fund - Request for Proposals: Language Legacies

http://www.endangeredlanguagefund.org/request.php

The Endangered Language Fund provides grants for language documentation and revitalization, and for linguistic fieldwork. The work most likely to be funded is that which serves both the native community and the field of linguistics, although projects which have immediate applicability to one group and more distant applicability to the other will also be considered. Support for publication is a low priority, although it will be considered. Proposals can originate in any country. The language involved must be in danger of disappearing within a generation or two. Endangerment is a continuum, and the location on the continuum is one factor in our funding decisions. Eligible expenses include consultant fees, equipment, travel, etc. Overhead is not allowed. Grants are for a one-year period, though extensions may be applied for. We expect grants in this round to be less than $4,000, and to average about $2,000.
Deadline: April 10, 2017

National Endowment for the Humanities - Digital Humanities Advancement Grants

https://www.neh.gov/grants/odh/digital-humanities-advancement-grants

Digital Humanities Advancement Grants (DHAG) support digital projects throughout their lifecycles, from early start-up phases through implementation and long-term sustainability. Experimentation, reuse, and extensibility are hallmarks of this grant category, leading to innovative work that can scale to enhance research, teaching, and public programming in the humanities. Proposals are welcome for digital initiatives in any area of the humanities. Digital Humanities Advancement Grants may involve:

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

Deadline: June 6, 2017
National Endowment for the Humanities - Fellowships: Advanced Social Science Research on Japan
https://www.neh.gov/grants/research/fellowships-advanced-social-science-research-japan
The Fellowship Program for Advanced Social Science Research on Japan encourages innovative research that puts these subjects in wider regional and global contexts and is comparative and contemporary in nature. Research should contribute to scholarly knowledge or to the general public’s understanding of issues of concern to Japan and the United States. Appropriate disciplines for the research include anthropology, economics, geography, history, international relations, linguistics, political science, psychology, public administration, and sociology. Awards usually result in articles, monographs, books, digital materials, archaeological site reports, translations, editions, or other scholarly resources.
Deadline: Apr. 26, 2017

Education, Business and Social Sciences

Association for the Sociology of Religion - Fichter Research Grants
http://www.sociologyofreligion.com/lectures-papers/fichter-research-grant-competition/
Fichter Research Grants are awarded annually by ASR to members of the Association involved in promising sociological research on women in religion or on the intersection between religion and gender or religion and sexualities. A total of $12,000 is available to be awarded annually, and this amount is usually distributed among several of the leading applications in the year’s competition. Dissertation research qualifies for funding, as does postdoctoral research by junior and senior scholars. Although these grants are open to scholars who are pursuing or currently have a Ph.D. in a range of disciplines, the proposed research must be sociological in nature. Applicants must also be members of the Association for the Sociology of Religion at the time of application.
If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu
Deadline: May 1, 2017

Russell Sage Foundation - RFP for Research on Effects of Affordable Care Act
This Russell Sage Foundation initiative will support innovative social science research on the social, economic and political effects of the Affordable Care Act. We are especially interested in funding analyses that address important questions about the effects of the reform on outcomes such as financial security and family economic well-being, labor supply and demand, participation in other public programs, family and children’s outcomes, and differential effects by age, race, ethnicity, nativity, or disability status. We are also interested in research that examines the political effects of the implementation of the new law, including changes in views about government, support for future government policy changes, or the impact on policy development outside of health care. Funding is available for secondary analysis of data or for original data collection. We welcome projects that propose novel uses of existing data, as well as projects that propose to analyze newly available or underutilized data.
If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu
Deadline for Letter of Inquiry: August 21, 2017

National Institutes of Health - Alcohol Education Project Grants (R25)
The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of the National Institute on Alcohol Abuse and Alcoholism (NIAAA) R25 program is to foster a better understanding of biomedical, behavioral and clinical research and its implications. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Curriculum or Methods Development and Outreach activities for Health Professionals.
Deadlines: Jan. 25, May 25, Sep. 25
AIDS Applications: May 7, Sep. 7, Jan. 7

Dollar General Literacy Foundation - Youth Literacy Grants
http://www2.dollargeneral.com/dgliteracy/Pages/grant_programs.aspx#ylg Youth Literacy Grants provide funding to schools, public libraries, and nonprofit organizations to help students who are below grade level or having trouble reading. Grant funding is provided to assist in the following areas:
• Implementing new or expanding existing literacy programs
• Purchasing new technology or equipment to support literacy initiatives
• Purchasing books, materials or software for literacy programs

If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu

Deadline: May 18, 2017

National Institutes of Health - The Health of Sexual and Gender Minority (SGM) Populations (R01, R03, R21, R15)
The National Institutes of Health (NIH) is committed to supporting research that will increase scientific understanding of the health status of diverse population groups and thereby improve the effectiveness of health interventions and services for individuals within those groups. Priority is placed on understudied populations with distinctive health risk profiles. This funding opportunity announcement (FOA) focuses on sexual and gender minority (SGM) populations, including lesbian, gay, bisexual, transgender, and intersex populations. Basic, social, behavioral, clinical, and services research relevant to the missions of the sponsoring Institutes and Centers may be proposed. The above link utilizes the R01 mechanism - it runs in parallel with two program announcements of identical scientific scope: PA-15-262, for R03 Small Research Grants, PA-15-263, which uses the exploratory/developmental (R21) grant mechanism and an Academic Research Enhancement Award (AREA), PA-15-260.

Deadlines:
R15: Feb. 25, Jun. 25, Oct. 25
AIDS Applications: May 7, Sep. 7, Jan. 7.
PA-15-261 Expiration Date: September 8, 2018

Substance Abuse and Mental Health Services Administration - Grants for the Benefit of Homeless Individuals
https://www.samhsa.gov/grants/grant-announcements/ti-17-009
The Substance Abuse and Mental Health Services Administration (SAMHSA), Center for Substance Abuse Treatment (CSAT), is accepting applications for fiscal year (FY) 2017 Grants for the Benefit of Homeless Individuals (GBHI). The purpose of this program is to support the development and/or expansion of local implementation of a community infrastructure that integrates behavioral health treatment and services for substance use disorders and co-occurring mental and substance use disorders (COD), permanent housing, and other critical services for individuals (including youth) and families experiencing homelessness.

Deadline: April 25, 2017

Science, Mathematics and Engineering

Department of Defense - US Army Engineer Research & Development Center - 2017 Broad Agency Announcement -- W912HZ-17-BAA-01
http://www.grants.gov/web/grants/view-opportunity.html?oppId=291690
The U.S. Army Engineer Research and Development Center (ERDC) is responsible for conducting research in the broad fields of hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, physical/mechanical/chemical properties of snow and other frozen precipitation, infrastructure and environmental issues for installations, computer science, telecommunications management, energy, facilities maintenance, materials and structures, engineering processes, environmental processes, land and heritage conservation, and ecological processes.

Closing Date: January 31, 2018

Defense Advanced Research Projects Agency - OFFensive Swarm Enabled Tactics (OFFSET)
http://www.grants.gov/web/grants/view-opportunity.html?oppId=291825
The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative proposals to expand the operational effectiveness of combat forces utilizing unmanned swarm systems. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. The goal of OFFSET is the design, development, and demonstration of a swarm system architecture – encoded in a realistic game-based environment and embodied in physical swarm autonomous platforms – to advance the innovation, interaction, and integration of novel swarm tactics.

**Deadlines:**
- Abstract: 1 March 2017
- Proposal: 3 April 2017

**Defense Advanced Research Projects Agency - RadioBio**
http://www.grants.gov/web/grants/view-opportunity.html?
The Defense Sciences Office (DSO) at the Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals that investigate electromagnetic signaling in biosystems. The RadioBio program aims to definitively establish whether purposeful signaling via electromagnetic waves between biological systems exists and, if it does, determine the mechanisms involved and the information being transferred. If electromagnetic communications between biosystems exist, then systematic study of the phenomenon may reveal new knowledge. New applications and capabilities in biology may result from this program, in addition to potential new strategies for dealing with communications in a cluttered electromagnetic environment. The RadioBio program will determine the validity of electromagnetic biosignaling claims and, where evidence exists, learn how the structure and function of these natural “antennas” can generate and receive information in a noisy, cluttered electromagnetic environment.

**Deadlines:**
- Abstract: March 7, 2017
- Proposal: April 12, 2017

**National Institutes of Health - Pre-application for the NIH-Industry Program: Discovering New Therapeutic Uses for Existing Molecules (X02)**
The NIH-Industry Program: Discovering New Therapeutic Uses for Existing Molecules [New Therapeutic Uses (NTU)] program is designed to develop partnerships between pharmaceutical companies and the biomedical research community to advance therapeutics development. This innovative program matches researchers with a selection of pharmaceutical industry assets to test ideas for new therapeutic uses with the ultimate goal of identifying promising new treatments for patients. The program was designed to enable efficient 3-way drug repositioning partnerships between academic, government, and pharmaceutical partners. This FOA invites X02 pre-applications for the NIH-Industry Program: Discovering New Therapeutic Uses for Existing Molecules. The X02 pre-application is the first step in the application process. Investigators whose X02 pre-applications are judged to be the most meritorious will be notified of the opportunity to submit an UG3/UH3 under RFA-TR-17-002 or RFA-TR-17-003 in the case of adult or pediatric indications, respectively.

**Deadlines:**
- Letter of Intent: March 17, 2017
- Application: April 17, 2017

**National Institutes of Health - Exploratory/Developmental Bioengineering Research Grants (EBRG) (R21)**
The purpose of this FOA is to encourage submission of Exploratory/Developmental Bioengineering Research Grants (EBRG) applications which establish the feasibility of technologies, techniques or methods that: 1) explore a new multidisciplinary approach to a biomedical challenge; 2) are high-risk but have high impact; and 3) develop data that may lead to significant future research. An EBRG application may propose hypothesis-driven, discovery-driven, developmental, or design-directed research and is appropriate for evaluating unproven approaches for which there is minimal or no preliminary data.

**Deadlines:**
- Feb. 16, Jun. 16, Oct. 16
Department of Homeland Security - K9 Wearable Technologies
https://www.fbo.gov/index?s=opportunity&mode=form&id=9b7d36beb9a263ee093f772c9dfe6841&tab=core&cview=1
Because of the critical role CBP working dogs have in law enforcement, drug interdiction and border protection, the health and welfare of the canines is of utmost concern. Due to the high-pressure operations tempo, physical demands and varied climates in which canine teams must operate, canines may suffer health problems that if not identified and remediated quickly—may cause severe illness, injury or even death. This call seeks to determine if the lessons learned from human wearable technologies or some aspects of the technologies may be adapted for use within the CBP canine training and operational environments.

Deadline: June 7, 2017

National Institutes of Health - Harnessing Big Data to Halt HIV (R01)
The purpose of this Funding Opportunity Announcement (FOA) is to promote research that transforms understanding of HIV transmission, the HIV care continuum, and HIV comorbidities using Big Data Science (BDS). These approaches should include projects to assemble big data sources, conduct robust and reproducible analyses, and create meaningful visualization of big data.

Deadlines: Jan. 7, May 7, Sep. 7

National Science Foundation - Catalysis
The Catalysis program is part of the Chemical Process Systems cluster, which includes also 1) Process Separations; 2) Process Systems, Reaction Engineering, and Molecular Thermodynamics; and 3) Energy for Sustainability. 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.

Deadline: October 20, 2017

National Science Foundation - Engineering of Biomedical Systems
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501023
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.

Deadline: October 20, 2017

National Science Foundation - Disability and Rehabilitation Engineering (DARE)
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505335
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 interest are neuroengineering and rehabilitation robotics. The program will also consider research in: 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.

**Deadline:** October 20, 2017

**National Science Foundation - Environmental Sustainability**
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505338
The goal of the *Environmental Sustainability* program is to promote sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems. These systems provide ecological services vital for human survival. Research efforts supported by the program typically consider long time horizons and may incorporate contributions from the social sciences and ethics. The program supports engineering research that seeks to balance society's need to provide ecological protection and maintain stable economic conditions. There are four principal general research areas that are supported:
- Industrial Ecology
- Green Engineering
- Ecological Engineering
- Earth Systems Engineering

**Deadline:** October 20, 2017

**National Science Foundation - Energy for Sustainability**
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505339
The *Energy for Sustainability* program is part of the Chemical Process Systems cluster, which includes also 1) Catalysis; 2) Process Separations; and 3) Process Systems, Reaction Engineering, and Molecular Thermodynamics. The goal of the *Energy for Sustainability* program is to support fundamental engineering research that will enable innovative processes for the sustainable production of electricity and fuels, and for energy storage. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Research projects that stress molecular level understanding of phenomena that directly impacts key barriers to improved system level performance (e.g. energy efficiency, product yield, process intensification) are encouraged. Proposed research should be inspired by the need for economic and impactful conversion processes. Current topics of interest are the following:
- Electrochemical Energy Systems
- Organic Photovoltaics

**Deadline:** October 20, 2017

**National Science Foundation - Environmental Engineering**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505332
The goal of the *Environmental Engineering* program is to support transformative research which applies scientific and engineering principles to avoid or minimize solid, liquid, and gaseous discharges, resulting from human activities on land, inland and coastal waters, and air, while promoting resource and energy conservation and recovery. The program also fosters cutting-edge scientific research for identifying, evaluating, and monitoring the waste assimilative capacity of the natural environment and for removing or reducing contaminants from polluted air, water, and soils. Major areas of interest include:
- Enhancing the availability of high quality water supplies
- Fate and transport of contaminants of emerging concern in air, water, solid waste, and soils

**Deadline:** October 20, 2017

**National Science Foundation - Biological and Environmental Interactions of Nanoscale Materials**
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030
The goal of the *Biological and Environmental Interactions of Nanoscale Materials* program is to support research to advance fundamental and quantitative understanding of the interactions of biological and environmental media with nanomaterials and nanosystems. Materials of interest include one- to three-dimensional nanostructures, heterogeneous nano-bio hybrid assemblies, and other nanoparticles. Such nanomaterials and systems frequently exhibit novel physical, chemical, and biological behavior in living systems and environmental matrices as compared to the bulk scale. This program supports research that explores the interaction of nanomaterials in biological and environmental media. Research areas supported by the program include:
• Characterization of interactions at the interfaces between nanomaterials and nanosystems with surrounding biological and environmental media, including both simple nanoparticles and complex and/or heterogeneous composites;
• Development of predictive tools based on the fundamental behavior of nanostructures within biological and ecological matrices to advance cost-effective and environmentally benign processing and engineering solutions over full life material cycles;
• Examining the transport, interaction, and impact of nanostructured materials and nanosystems on biological systems;
• Simulations of nanoparticle behavior at interfaces, in conjunction with experimental comparisons, and new theories and simulation approaches for determining the transport and transformation of nanoparticles in various media.

Deadline: Full Proposal Accepted Anytime

National Science Foundation - Nano-Biosensing
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505340
The Nano-Biosensing program supports fundamental engineering research on devices and methods for measurement and quantification of biological analytes. Proposals that incorporate emerging nanotechnology methods are especially encouraged. Areas of interest include:
• Multi-purpose sensor platforms that exceed the performance of current state-of-the-art devices.
• Novel transduction principles, mechanisms and sensor designs suitable for measurement in practical matrix and sample-preparation-free approaches. These include error-free detection of pathogens and toxins in food matrices, waterborne pathogens, parasites, toxins, biomarkers in body fluids, and others that improve human condition.
• Nano-biosensors that enable measurement of biomolecular interactions in their native states, transmembrane transport, intracellular transport and reactions, and other biological phenomena.
• Studies that examine intracellular measurements must include discussion on the significance of the measurement.

Deadline: October 20, 2017

National Science Foundation - Cellular and Biochemical Engineering
The Cellular and Biochemical Engineering (CBE) program supports fundamental engineering research that advances the understanding of cellular and biomolecular processes in engineering biology and eventually leads to the development of enabling technology for advanced biomanufacturing in support of the therapeutic cells, biochemical, biopharmaceutical and biotechnology industries. A quantitative treatment of biological and engineering problems of biological processes is considered vital to successful research projects in the CBE program. Major areas of interest in the program include:
• Metabolic engineering and synthetic biology for biomanufacturing
• Quantitative systems biotechnology
• Cell culture technologies
• Protein and enzyme engineering
• Single cell dynamics and modeling in the context of biomanufacturing
• Development of novel "omics" tools for biomanufacturing applications

Deadline: October 20, 2017

National Science Foundation - Thermal Transport Processes
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505328
The Thermal Transport Processes (TTP) program supports engineering research projects that lay the foundation for new discoveries in thermal transport phenomena. These projects should either develop new fundamental knowledge or combine existing knowledge in thermodynamics, fluid mechanics, and heat and mass transfer to probe new areas of innovation. The program seeks transformative projects with the potential for improving our basic understanding, predictability and application of thermal transport processes. Projects should articulate the contribution(s) to the fundamental knowledge supporting thermal transport processes and state clearly the potential application(s) impact when appropriate. Some specific areas of interest include:
• Convection/Diffusion/Radiation
• Thermodynamics
• Bio- Heat and Mass Transport
• Nano-, Micro- and Meso-thermics

Deadline: October 20, 2017

National Science Foundation - Particulate and Multiphase Processes

The goal of the Particulate and Multiphase Processes (PMP) program is to support fundamental research on physico-chemical phenomena that govern particulate and multiphase systems, including flow of suspensions, drops and bubbles, granular and granular-fluid flows, behavior of micro- and nanostructured fluids, and self-assembly/directed-assembly processes that involve particulates. The program encourages transformative research to improve our basic understanding of particulate and multiphase processes with emphasis on research that demonstrates how particle-scale phenomena affect the behavior and dynamics of larger-scale systems. Although proposed research should focus on fundamentals, a clear vision is required that anticipates how results could benefit important applications in advanced manufacturing, energy harvesting, transport in biological systems, biotechnology, or environmental sustainability. Collaborative and interdisciplinary proposals are encouraged, especially those that involve a combination of experiment with theory or modeling. Major research areas of interest in the program include:

• Multiphase flow phenomena
• Particle science and technology
• Multiphase transport in biological systems
• Interfacial transport

Deadline: October 20, 2017

National Science Foundation - Fluid Dynamics
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13365

The Fluid Dynamics program is part of the Transport Phenomena cluster, which includes also 1) Combustion and Fire Systems; 2) Particulate and Multiphase Processes; and 3) Thermal Transport Processes. The Fluid Dynamics program supports fundamental research toward gaining an understanding of the physics of various fluid dynamics phenomenon. Proposed research should contribute to basic scientific understanding via experiments, theoretical developments, and computational discovery. Encouraged are proposals that focus on high Reynolds number turbulence scaling and modeling. Major areas of interest and activity in the program include:

• Turbulence and Transition
• Bio-inspired Fluid Mechanics: fluid-structure interactions; biological flow processes.
• Flow of Complex Fluids
• Micro- and Nano-fluidics
• Interfacial Interactions and Instabilities
• Wind and Ocean Energy Harvesting

Deadline: October 20, 2017

National Science Foundation - Biophotonics
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505337

The goal of the Biophotonics program is to explore the research frontiers in photonics principles, engineering and technology that are relevant for critical problems in fields of medicine, biology and biotechnology. Fundamental engineering research and innovation in photonics is required to lay the foundations for new technologies beyond those that are mature and ready for application in medical diagnostics and therapies. Advances are needed in nanophotonics, optogenetics, contrast and targeting agents, ultra-thin probes, wide field imaging, and rapid biomarker screening. Low cost and minimally invasive medical diagnostics and therapies are key motivating application goals. Research topics in this program include:

• Macromolecule Markers
• Low Coherence Sensing at the Nanoscale
• Neurophotonics
• Micro- & Nano-photonics
• Optogenetics
Deadline: October 20, 2017

National Science Foundation - Petascale Computing Resource Allocations (PRAC)
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503224
In 2013, a new NSF-funded petascale computing system, Blue Waters, was deployed at the University of Illinois at Urbana-Champaign. The goal of this project and system is to open new possibilities in science and engineering by providing computational capability that makes it possible for investigators to tackle much larger and more complex research challenges across a wide spectrum of domains. The purpose of this solicitation is to invite research groups to submit requests for allocations of resources on the Blue Waters system. Proposers must show compelling science or engineering challenges that require petascale computing resources. Proposers must also be prepared to demonstrate that they have science or engineering research problems that require and can effectively exploit the petascale computing capabilities offered by Blue Waters. Proposals from or including junior researchers are encouraged, as one of the goals of this solicitation is to build a community capable of using petascale computing.

Deadline: November 6, 2017

Medical/Health/Behavioral Sciences

National Institutes of Health - Diet and Physical Activity Assessment Methodology (R01, R21)
This Funding Opportunity Announcement (FOA) encourages innovative research to enhance the quality of measurements of dietary intake and physical activity. Applications submitted under this FOA are encouraged to include development of: novel assessment approaches; better methods to evaluate instruments; assessment tools for culturally diverse populations or various age groups, including children and older adults; improved technology or applications of existing technology; statistical methods/modeling to improve assessment and/or to correct for measurement errors or biases; methods to investigate the multidimensionality of diet and physical activity behavior through pattern analysis; or integrated measurement of diet and physical activity along with the environmental context of such behaviors. Although the above link is for the R01 mechanism, it runs in parallel with a program announcement of identical scientific scope, PAR-15-171, which uses the R21 grant mechanism.

Deadlines:
R01: February 5, June 5, October 5
R21: October 16, 2017; and June 16, 2018
AIDS Applications: January 7, May 7, September 7

National Institutes of Health - Harnessing Big Data to Halt HIV (R01)
The purpose of this Funding Opportunity Announcement (FOA) is to promote research that transforms understanding of HIV transmission, the HIV care continuum, and HIV comorbidities using Big Data Science (BDS). These approaches should include projects to assemble big data sources, conduct robust and reproducible analyses, and create meaningful visualization of big data.

Deadlines: Jan. 7, May 7, Sep. 7

National Institutes of Health - Alcohol Education Project Grants (R25)
The NIH over-arching goal of the National Institute on Alcohol Abuse and Alcoholism (NIAAA) R25 program is to foster a better understanding of biomedical, behavioral and clinical research and its implications. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Curriculum or Methods Development and Outreach activities for Health Professionals.

Deadlines: Jan. 25, May 25, Sep. 25
AIDS Applications: May 7, Sep. 7, Jan. 7

Centers for Disease Control and Prevention - Strengthening Global Public Health Workforce Capacity in Partnership with Academia
https://www.grants.gov/web/grants/view-opportunity.html?oppId=284807
This FOA will support the continuation and further development of a high-quality and well-structured global health fellowship program to ensure a sustained pipeline of global health public health professionals entering the field. The use of fellowship programs to increase public health implementation experience has bloomed over the past decade, with growing interest from both fellows and the public health programs with which they are placed. Programs see this as an opportunity to mentor up-and-coming public health professionals and the fellows appreciate real-time practice and implementation of lessons learned in the academic environment.

**Deadlines:**
- Letter of Intent: **Mar. 6, 2017**
- Applications: **Apr. 20, 2017**

**National Institutes of Health - The Health of Sexual and Gender Minority (SGM) Populations (R01, R03, R21, R15)**


The National Institutes of Health (NIH) is committed to supporting research that will increase scientific understanding of the health status of diverse population groups and thereby improve the effectiveness of health interventions and services for individuals within those groups. Priority is placed on understudied populations with distinctive health risk profiles. This funding opportunity announcement (FOA) focuses on sexual and gender minority (SGM) populations, including lesbian, gay, bisexual, transgender, and intersex populations. Basic, social, behavioral, clinical, and services research relevant to the missions of the sponsoring Institutes and Centers may be proposed.


**Deadlines:**
- R01: **Feb. 5, Jun. 5, Oct. 5**
- R03, R21: **Feb. 16, Jun. 16, Oct. 16**
- R15: **Feb. 25, Jun. 25, Oct. 25**
- AIDS Applications: **May 7, Sep. 7, Jan. 7**
- PA-15-261 Expiration Date: September 8, 2018