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 S-1328, carol.brodie@unlv.edu. However, for opportunities from foundations, please contact Caleen Johnson at S-2828, caleen.johnson@unlv.edu. Please see the Proposal Development website, http://www.unlv.eduresearch/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

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Announcements

Recent Limited Submissions announcements are as follows:

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

Webinar on the NIH MARC U-STAR Program

As a member of the Grants Resource Center (GRC), UNLV has access to the occasional webinars and other educational programs that they offer. This fall, one of the webinars GRC is offering is on the following program:
National Institute of General Medical Sciences, National Institutes of Health - Maximizing Access to Research Careers Undergraduate – Student Training in Academic Research (MARC U-STAR). This program provides institutions the resources to support and train underrepresented, research-oriented students, who upon completion of their undergraduate STEM degree are likely to successfully complete a Ph.D. program in a biomedical science field relevant to the NIH. Detailed information on this program can be found at http://grants.nih.gov/grants/guide/pa-files/PAR-16-113.html. Deadlines for proposals are May 25, 2017 and May 25, 2018.

OSP will be hosting this webinar in SEB 2251 on August 31, 2016, 12 – 1:30 p.m. PT. Space is limited, so please RSVP by Friday August 19 if you are interested in attending. RSVP at https://unlv.co1.qualtrics.com/SE/?SID=SV_8k52E5HncXYA9vf

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 some financial resources for both graduate and undergraduate students: http://www.unlv.edu/research/financial-resources-graduate-and-undergraduate-students
American Educational Research Association - AERA Minority Dissertation Fellowship in Education Research
http://www.aera.net/Professional-Opportunities-Funding/AERA-Funding-Opportunities/Minority-Dissertation-Fellowship-Program
The American Educational Research Association (AERA) is pleased to announce the AERA Minority Dissertation Fellowship in Education Research. The Council of the AERA established the fellowship program to provide support for doctoral dissertation research, to advance education research by outstanding minority graduate students, and to improve the quality and diversity of university faculties. This fellowship is targeted for members of racial and ethnic groups historically underrepresented in higher education (e.g., African Americans, Alaskan Natives, American Indians, Asian Americans, Hispanics or Latinos, and Native Hawaiian or Pacific Islanders). This program offers doctoral fellowships to enhance the competitiveness of outstanding minority scholars for academic appointments at major research universities. It supports fellows conducting education research and provides mentoring and guidance toward the completion of their doctoral studies.
Deadline: November 1, 2016

Horowitz Foundation for Social Policy Research Accepting Applications
HTTP://WWW.HOROWITZ-FOUNDATION.ORG/
The Horowitz Foundation for Social Policy was established in 1997 to support the advancement of research and understanding in the major fields of the social sciences, which include psychology, anthropology, sociology, economics, urban affairs, area studies, and political science. Through its grants program, the foundation awards grants of $7,500 — $5,000 at the start of the project and $2,500 at its completion — to Ph.D. candidates in support of dissertations that address contemporary issues in the social sciences.
Deadline: January 31, 2017

Facebook - Fellowship Program
https://www.facebook.com/fellowship
Designed to encourage and support promising doctoral students who are engaged in innovative and relevant research in areas related to computer science and engineering, Facebook fellows will receive two years tuition and fees, a $37,000 stipend each year, and up to $5,000 for conference travel support. PhD students working in the areas of Artificial Intelligence, Computer Vision, Connectivity Hardware, Data Mining, Databases, Distributed Systems, Electrical Engineering, Networking and Operating Systems, Economics and Computation, Human-Computer Interaction, Machine Learning, Natural Language Processing and Speech Technologies, Programming Languages and Compilers, Security and Privacy and Social Computing are encouraged to apply.
Deadline: Nov. 1, 2016

American Philosophical Society - Lewis and Clark Fund for Exploration and Field Research
http://www.amphilsoc.org/grants/lewisandclark
The Lewis and Clark Fund encourages exploratory field studies for the collection of specimens and data and to provide the imaginative stimulus that accompanies direct observation. Applications are invited from Ph.D. students in disciplines with a large dependence on field studies, such as archeology, anthropology, biology, ecology, geography, geology, linguistics, paleontology, and population genetics, but grants will not be restricted to these fields. NOTE: Graduate students and postdoctoral and junior scientists wishing to pursue projects in astrobiological field studies should consult the program description and forms for the Lewis and Clark Fund in Exploration and Field Research in Astrobiology.
Deadline: February 1, 2017

International Opportunities

US Agency for International Development - SECURING WATER FOR FOOD (SWFF): A GRAND CHALLENGE FOR DEVELOPMENT (Round 4)
Through Grand Challenges for Development (GCD), the United States Agency for International Development (USAID) and its partners are accelerating science, technology, and business model innovations that have the potential to achieve large-scale development impact. Securing Water for Food is not funding projects, but is rather
funding innovators who can use SWFF funding as a catalyst to (for example) buy down the risk of entering new markets; attract partners who can help bring an innovation to scale; increase adoption of an innovation; and attract private capital. If you have a product or business model that you would pitch to an investor, we want you to apply to SWFF. If you have a great idea for a development project, SWFF is probably not the right vehicle for you.

The goal is to source and accelerate innovations in the following areas that will enable the production of more food with less water and/or make more water available for food production, processing, and distribution.

a) Water Efficiency and Reuse – especially targeted at the food value chain. This will become a greater necessity as water availability is threatened by competition between industrial, agricultural, and energy uses. Improving water efficiency and reuse has tremendous potential water-saving benefits that may have multiplier effects at various levels of a country’s economy.

b) Water Capture and Storage. These systems are in high demand in many regions where rain occurs at limited times. With projected increases in rainfall variability due to climate change and increased demands for food production, capture and storage systems at various scales are needed to secure water supplies throughout the year and build resiliency to drought and floods.

c) Salinity and Salt Water Intrusion. In coastal areas, overpumping and rising sea levels are leading to saltwater intrusion, forcing farmers to use marginal quality water for irrigation. With more than 30% of the world’s population living in coastal areas and drawing food supply from fertile deltas, urgent solutions are required to reduce the impacts of salinity on the quality of aquifers and food production.

**Deadline for Concept Notes:** Oct. 10, 2016

### Arts and the Humanities

**Institute for Advanced Study, School of Historical Studies -- Opportunities for Scholars**

[http://www.hs.ias.edu/application](http://www.hs.ias.edu/application)

The Institute for Advanced Study is an independent private institution founded in 1930 to create a community of scholars focused on intellectual inquiry, without the obligations and distractions associated with the teaching of undergraduates. Scholars from around the world come to the Institute to pursue their own research. Those chosen are offered membership for a set period and a stipend. The Institute provides access to extensive resources including offices, libraries, subsidized restaurant and housing facilities, and some secretarial services. Open to all fields of historical research, the School of Historical Studies supports scholarship in all fields of historical research, but is concerned principally with the history of western, near eastern and Asian civilizations, with particular emphasis upon Greek and Roman civilization, the history of Europe (medieval, early modern, and modern), the Islamic world, East Asian studies, the history of art, the history of science, philosophy, and modern international relations. **Deadline: November 1, 2016**

**GRAMMY Foundation Grants**

[http://www.grammy.org/grammy-foundation/grants](http://www.grammy.org/grammy-foundation/grants)

The GRAMMY Foundation is now accepting Letters of Inquiry for our 2017 grant cycle. With funding generously provided by The Recording Academy®, the Grant Program awards grants each year to organizations and individuals to support efforts that advance the archiving and preservation of music and the recorded sound heritage of the Americas for future generations, and research projects related to the impact of music on the human condition. Grant funds have been utilized to preserve private collections as well as materials at the Library of Congress, the Smithsonian and numerous colleges and universities. Research projects have studied the links between music and early childhood education, treatments for illnesses and injuries common to musicians, and the impact of music therapy on populations from infants to the elderly. In the past, nearly $7 million in grants have been awarded to more than 380 recipients.

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

**Deadline: October 1, 2016**

**National Endowment for the Arts - NEA Literature Fellowships: Translation Projects**

[https://www.arts.gov/grants-individuals/translation-projects](https://www.arts.gov/grants-individuals/translation-projects)

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

**Deadline:** December 6, 2016

**Getty Foundation - Scholars Grant Program**

http://www.getty.edu/foundation/initiatives/residential/getty_scholars.html

The foundation is accepting applications from established scholars or writers who have attained distinction in their fields to its Getty Scholar Grants Program. Recipients of Getty Scholar grants will be in residence at the Getty Research Institute or Getty Villa, where they will pursue their projects free from academic obligations, make use of Getty collections, join their colleagues in a weekly meeting devoted to an annual research theme, and participate in the intellectual life of the Getty. Getty Scholars may be in residence for one of six periods ranging from three to nine months: September to December; January to March; April to June; September to March; January to June; or September to June. A stipend of up to $65,000 per year will be awarded based on length of stay, need, and salary. The grant also includes an office at the Getty Research Institute or the Getty Villa, research assistance, an apartment in the Getty scholar housing complex, airfare to/from Los Angeles, and various healthcare options. Researchers of all nationalities who are working in the arts, humanities, or social sciences are eligible to apply.

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

**Deadline:** October 3, 2016

**University of Wisconsin – Madison, Institute for Research in the Humanities (IRH) – Solmsen Postdoctoral Fellowships**

http://irh.wisc.edu/fellowships/solmsen

The Institute offers five to six Solmsen Fellowships each year to scholars outside UW-Madison working in the humanities on European history and culture in the classical, medieval, and/or early modern periods before 1700. Fellows are expected to be in residence throughout the academic year (except for short research trips, lectures, conferences, etc.) and may extend their residency through the following summer on a non-stipendary basis. Fellows are expected to present their work at an Institute seminar and participate in the weekly seminars.

Applicants must be in possession of the doctorate at the time of application.

**Deadline:** November 1, 2016

**University of Wisconsin – Madison, Institute for Research in the Humanities (IRH) – Robert M. Kingdon Fellowship**

http://irh.wisc.edu/fellowships/kingdon

The Institute provides funds for two to three Kingdon Fellowships to scholars outside UW-Madison who are engaged in historical, literary, and philosophical studies of Judeo-Christian religious traditions and their role in society from antiquity to the present, broadly understood. Projects may focus on any period from antiquity to the present, on any part of the world, and in any field(s) in the humanities; can range widely or focus on a particular issue; and can explore various forms of Jewish and/or Christian traditions; the interaction of one or both of these religious traditions with other religious traditions; and/or the relationship of one or both of these religious traditions to other aspects of society such as power, politics, culture, experience, creativity, nationality, cosmopolitanism, gender, and sexuality. Projects that incorporate consideration of religion’s interaction with society are especially welcome.

Fellows must be in residence throughout the academic year (except for short research trips) and may extend their residency through the following summer on a non-stipendary basis. Fellows are expected to present their work at an Institute seminar and participate in the weekly seminars. Applicants must be in possession of the doctorate at the time of application.

**Deadline:** November 1, 2016

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**Education, Business and Social Sciences**

**Getty Foundation - Scholars Grant Program**

http://www.getty.edu/foundation/initiatives/residential/getty_scholars.html

The foundation is accepting applications from established scholars or writers who have attained distinction in their fields to its Getty Scholar Grants Program. Recipients of Getty Scholar grants will be in residence at the Getty
Research Institute or Getty Villa, where they will pursue their projects free from academic obligations, make use of Getty collections, join their colleagues in a weekly meeting devoted to an annual research theme, and participate in the intellectual life of the Getty. Getty Scholars may be in residence for one of six periods ranging from three to nine months: September to December; January to March; April to June; September to March; January to June; or September to June. A stipend of up to $65,000 per year will be awarded based on length of stay, need, and salary. The grant also includes an office at the Getty Research Institute or the Getty Villa, research assistance, an apartment in the Getty scholar housing complex, airfare to/from Los Angeles, and various healthcare options. Researchers of all nationalities who are working in the arts, humanities, or social sciences are eligible to apply. **If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu**

**Deadline: October 3, 2016**

**National Science Foundation - Dynamics of Coupled Natural and Human Systems (CHN)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13681

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

**Deadline: November 15, 2016**

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**Science, Mathematics and Engineering**

**National Science Foundation - Ecology and Evolution of Infectious Diseases (EEID)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5269

The Ecology and Evolution of Infectious Diseases program supports research on the ecological, evolutionary, and socio-ecological principles and processes that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of transmission among humans, non-human animals, and/or plants.

**Deadline: November 16, 2016**

**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. Any proposal investigating sensors, materials or devices that does not integrate these products with an environmental engineering activity or area of research may be returned without review.

**Deadline: October 20, 2016**

**National Science Foundation - Catalysis**

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, 2016

**National Science Foundation - Applied Mathematics**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5664

The Applied Mathematics program supports mathematics research motivated by or having an effect on problems arising in science and engineering. Mathematical merit and novelty, as well as breadth and quality of impact on applications, are important factors. Proposals to develop critical mathematical techniques from individual investigators as well as interdisciplinary teams are encouraged.

Deadline: November 15, 2016

**American Institute of Physics - The AIP State Department Science Fellowship Program**
http://www.aip.org/policy/fellowships/sdf

Most of the foreign policy issues faced by the U.S. Department of State have a scientific or technical component. This Fellowship is intended to enhance the S&T capacity of the Department by enabling at least one scientist annually to work at the Department’s Washington, DC headquarters for a one-year term. This is a unique opportunity for a scientist to contribute scientific and technical expertise to the Department and raise awareness of the value of scientific input. In turn, scientists broaden their experience by interacting with policymakers in the federal government and learning about the foreign policy process.

Deadline: November 1, 2016

**National Science Foundation - Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505082

The Improving Undergraduate STEM Education (IUSE: EHR) program invites proposals that address immediate challenges and opportunities that are facing undergraduate STEM education, as well as those that anticipate new structures (e.g. organizational changes, new methods for certification or credentialing, course re-conception, cyberlearning, etc.) and new functions of the undergraduate learning and teaching enterprise. The IUSE: EHR program recognizes and respects the variety of discipline-specific challenges and opportunities facing STEM faculty as they strive to incorporate results from educational research into classroom practice and work with education research colleagues and social science learning scholars to advance our understanding of effective teaching and learning.

Toward these ends the program features two tracks: (1) **Engaged Student Learning** and (2) **Institutional and Community Transformation**. Two tiers of projects exist within each track: (i) **Exploration and Design** and (ii) **Development and Implementation**.

Deadlines:
**November 2, 2016** (Exploration and Design Tier for Engaged Student Learning & Institution and Community Transformation)

**January 11, 2017** (Development and Implementation Tiers for Engaged Student Learning & Institution and Community Transformation)

**National Science Foundation - Dear Colleague Letter: Data Resources for the BRAIN Initiative**

NSF supports fundamental research across the broad spectrum of disciplines associated with Understanding the Brain (see [https://www.nsf.gov/brain](https://www.nsf.gov/brain)), and is a partner in the federal "Brain Research through Advancing Innovative Neurotechnologies" (BRAIN) Initiative. This broad interagency effort is supporting projects that are using different combinations of technologies and model organisms, generating multi-modal data sets aimed at understanding specific circuit contributions to brain function. These data sets include systematic collections of molecular profiles, anatomic information, functional properties of brain cells, as well as neuronal activity data, connectivity maps and high-resolution data on complex behaviors. Current Brain Initiative projects, thematic areas and programs supported by NIH or NSF can be found at the following websites:

NIH Link: [http://www.braininitiative.nih.gov/funding/fundedAwards.htm](http://www.braininitiative.nih.gov/funding/fundedAwards.htm)


The large and complex datasets generated by these projects are representative of trends in the field, and NSF recognizes the need for novel approaches to manage, integrate and analyze these diverse data types. With this

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Dear Colleague Letter, NSF calls attention to core programs at NSF that support informatics, software and cyberinfrastructure projects in a broad range of disciplines, including neuroscience. More specifically, NSF is encouraging researchers with expertise in data science to partner with BRAIN Initiative projects to enhance the dissemination and utilization of these data sets. This DCL is part of NSF’s phased approach to develop a national research infrastructure for neuroscience as outlined in the Dear Colleague Letter NSF 16-047. The standing core programs or solicitations at NSF that are most relevant to this effort include:

Advances in Biological Informatics (ABI):
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5444
Software Infrastructure for Sustained Innovation
Data Infrastructure Building Blocks (DIBBs):
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504776&org=ACI&from=home

In order to take advantage of this Dear Colleague Letter, contact a relevant Program Officer listed on the Program websites above.

**National Science Foundation - Macromolecular, Supramolecular and Nanochemistry (MSN) -- Division of Chemistry**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503422
The Macromolecular, Supramolecular and Nanochemistry (MSN) Program focuses on basic research that addresses fundamental questions regarding the chemistry of macromolecular, supramolecular and nanoscopic species and other organized structures and that advances chemistry knowledge in these areas. Research of interest to this program will explore novel chemistry concepts in the following topics:

1. The development of novel synthetic approaches to clusters, nanoparticles, polymers, and supramolecular architectures; innovative surface functionalization methodologies; surface monolayer chemistry; and template-directed synthesis.
2. The study of molecular scale interactions that give rise to macromolecular, supramolecular or nanoparticulate self-assembly into discrete structures; and the study of chemical forces and dynamics that are responsible for spatial organization in discrete organic, inorganic or hybrid systems (excluding extended solids).
3. Investigations that utilize advanced experimental or computational methods to understand or to predict the chemical structure, unique chemical and physicochemical properties, and chemical reactivities that result from the organized or nanoscopic structures. Research in which theory advances experiment and experiment advances theory synergistically is of special interest.

**Deadline: October 31, 2016**

**National Science Foundation - Chemical Measurement and Imaging (CMI)**
The Chemical Measurement and Imaging Program supports research focusing on chemically-relevant measurement science and imaging, targeting both improved understanding of new and existing methods and development of innovative approaches and instruments. Research areas include but are not limited to sampling and separation science; electrochemistry; spectrometry; frequency- and time-domain spectroscopy; sensors and bioassays; and microscopy. Chemical (as opposed to morphological) imaging and measurement tools probing chemical properties and processes across a wide range of spatial scales - from macroscopic structures down to single molecules - are supported, as are innovations enabling the monitoring and imaging of rapid chemical and electronic processes and new approaches to data analysis and interpretation, including chemometrics.

**Deadline: October 31, 2016**

**National Science Foundation - Chemistry of Life Processes (CLP)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503417
The Chemistry of Life Processes (CLP) Program supports fundamental studies of biomolecules or biological systems at the interface of chemistry and biology. The primary contributions and innovations of the proposed research focus on the chemical aspects of the project. The Program supports studies that investigate how molecular structure, dynamics and interactions, as well as reaction thermodynamics and mechanisms are integrated with the chemistry performed by, or intrinsic to, the biological systems. Proposals in the following areas are encouraged:

- The development of bio-orthogonal chemistry for probing cellular function
- The quantitative understanding of thermodynamics as applied to a cellular system
• Biomolecular design, synthesis and engineering aimed at understanding biological function
• The use of theory, computation, modeling and/or simulation as applied to the chemical aspects of biological systems

**Deadline:** October 31, 2016

**National Science Foundation - Integrated Earth Systems (IES)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504833

The Earth consists of a variety of complex systems that are variable over space and time, and respond to a wide range of perturbations. The goal of the Integrated Earth Systems (IES) program is to investigate the interplay among the continental, terrestrial, and interior systems of the planet. The program provides an opportunity for collaborative, multidisciplinary research into the operation, dynamics, and complexity of Earth systems that encompass the core of the Earth through the surface. Innovative projects that explore new research directions beyond those typically considered by core programs of the Division of Earth Sciences (EAR) are encouraged. Investigations may include all or part of the continental, terrestrial and deep Earth at all temporal and spatial scales. IES will support topics that include (but are not limited to) continental systems; terrestrial or surficial Earth systems including physical, chemical, and biotic dimensions; linkages among tectonics, climate, and landscape evolution; the coupling of the Earth’s climate, depositional and biotic systems; and global cycles that involve core and mantle processes.

**Deadline:** November 14, 2016

**National Science Foundation - CISE Research Infrastructure (CRI)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12810

The CISE Research Infrastructure (CRI) program drives discovery and learning in the core CISE disciplines of the three participating CISE divisions by supporting the creation and enhancement of world-class research infrastructure that will support focused research agendas in computer and information science and engineering. The CRI program supports two classes of awards:

• **Institutional Infrastructure (II)** awards support the creation of new (II-NEW) CISE research infrastructure or the enhancement (II-EN) of existing CISE research infrastructure to enable world-class CISE research opportunities at the awardee and collaborating institutions.

• **Community Infrastructure (CI)** awards support the planning (CI-P) for new CISE community research infrastructure, the creation of new (CI-NEW) CISE research infrastructure, the enhancement (CI-EN) of existing CISE infrastructure, or the sustainment (CI-SUSTAIN) of existing CISE community infrastructure to enable world-class CISE research opportunities for broad-based communities of CISE researchers that extend well beyond the awardee institutions.

**Deadlines:**
Full Proposal: January 18, 2017

**National Science Foundation - Dynamics of Coupled Natural and Human Systems (CHN)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13681

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

**Deadline:** November 15, 2016

**Department of the Interior - 3D Elevation Program (3DEP)**

This Broad Agency Announcement (BAA) is issued to facilitate the collection of lidar and derived elevation data for the 3D Elevation Program (3DEP). Proposals are invited from applicants who wish to propose a partnership with 3DEP to fund lidar data acquisition and the creation of lidar derived elevation products. Applicants may fund an acquisition project through the USGS Geospatial Products and Services Contract or they may request 3DEP funds to
apply towards a lidar data acquisition project where the requesting partner uses their own contracting vehicle. Federal agencies, state and local governments, tribes, academic institutions and the private sector are eligible to submit proposals. The Government will review proposals based on the project’s alignment with the evaluation criteria identified in section VI.A. of this BAA.

**Deadline: October 10, 2016.** The BAA will remain open and proposals received after the initial due date will be considered for review until 30 September 2017 or until such time as the BAA is cancelled through an amendment or another BAA is issued; additional selections will be made depending on availability of funding and evaluation of proposals consistent with the evaluation criteria.

**Department of Defense - FY2017 Office of Naval Research (ONR) Young Investigator Program (YIP)**

http://www.grants.gov/web/grants/view-opportunity.html?oppId=286980

The Office of Naval Research (ONR) is interested in receiving proposals for its Young Investigator Program (YIP). ONR’s Young Investigator Program (YIP) seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment, have begun their first appointment on or after 04 November 2011, and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of Institutions of Higher Education (hereafter also called “universities”) to the Department of the Navy’s research program, to support their research, and to encourage their teaching and research careers.

**Deadline: November 4, 2016**

**Department of Defense - Naval Engineering Education Consortium (NEEC)**


This BAA is open only to colleges and universities. On behalf of the Naval Sea Systems Command (NAVSEA) Warfare Centers, NSWC IHEODTD is soliciting research of interest in support of the NEEC. Areas of Interest are as follows:

- CD1. Ship Integration and Design Research and Development
- CD2. Unmanned Vehicles/Autonomous Systems Research and Development
- CD3. Additive Manufacturing Research and Development
- CD4. Signatures and Silencing Research and Development
- CD5. Hydrodynamics/Hydromechanics Research and Development
- CO1. Metrology & Calibration (METCAL) for High Energy Lasers (HEL)
- CO1. Metrology & Calibration (METCAL) for Additive Manufacturing (AM)/3D printing technologies
- CO3. Metrology of Sensors/Detectors
- CO4. Big Data Analytics for assessment purposes
- DD1. Emerging software development
- DD2. Laser systems development
- DD3. Electronic Warfare and Radar
- DD4. Human Systems Interface research topics
- DD5. CBR Defense research and development
- DD6. Biodefense research and development
- DD7. Viscoelastic polymer research
- IH1. Development of novel energetic materials, formulations and applications
- IH2. Advanced manufacturing methods and processes for energetic and explosive ordnance disposal (EOD) applications
- IH3. Enhanced surface autonomous vehicle maneuver and navigation concepts, tools and methods
- IH4. Improved chemical processing and formulation scale up methods, tools and processes for energetic materials
- IH5. Improved Explosive Ordnance Disposal
- PC1. Communications-constrained path planning in littoral environments
- PC2. Multi-vehicle Autonomy, Sensing and Collaboration
- PC3. Communications and Processing for Mobile Distributed Sensor Networks
- PD1. Resilient and Cybersecure Shipboard Control Systems
- PD2. Condition Assessment and Prognostics for Shipboard Machinery Systems
- PD3. Advanced Technologies for Shipboard Superconducting Systems
- PD4. Shipboard Energy Storage Systems
- PH1. Non-chemical coatings removal
PH2. Cybersecurity
PH3. Laser methods
PH4. Cybersecurity

KP1. Testing and Evaluations techniques for the establishment of trust in autonomous systems
KP2. Robust testbed development to enable autonomous system testing
KP3. 3D Printing for the Foundry Industry
KP4. Analysis of Polymer Additive Manufactured Materials
KP5. Obsolescence, lifecycle, and supportability forecasting
KP6. In-Service Engineering
KP7. Cyber-warfare

NP1. Autonomy for Undersea Vehicles
NP2. Sparse Sampling Algorithms

Deadline: October 10, 2016

Medical/Health/Behavioral Sciences

National Institutes of Health - Research on Autism Spectrum Disorders (R01, R03, R21)
The purpose of this Funding Opportunity Announcement (FOA) is to encourage research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, treatment, and optimal means of service delivery in relation to Autism Spectrum Disorders (ASD).

The above link is for the NIH Research Project Grant (R01) award mechanism and runs in parallel with two FOAs of identical scientific scope: PA-16-387 and PA-16-386, which encourage applications under the R03 and R21 mechanisms, respectively.

Deadlines:
R01: February 5, June 5, October 5.
R03 and R21: February 16, June 16, October 16.
PA-16-388 Expiration Date: September 8, 2019

National Institutes of Health - Oncology Co-Clinical Imaging Research Resources to Encourage Consensus on Quantitative Imaging Methods and Precision Medicine (U24)
The purpose of this Funding Opportunity Announcement (FOA) is to invite Cooperative Agreement applications to develop research resources that will encourage a consensus on how Quantitative Imaging (QI) methods are optimized to improve the quality of imaging results for co-clinical trials. The scientific goals of this FOA are to: (a) perform the appropriate optimization of the pre-clinical quantitative imaging methods, (b) implement the optimized methods in the co-clinical trial, and finally (c) populate a web-accessible research resource with all the data, methods, workflow documentation, and results collected from the co-clinical investigations.
Co-clinical trials are defined in this FOA as investigations in patients and in parallel (or sequentially) in mouse or human-in-mouse models of cancer that mirror the genetics and biology of the patients’ malignancies or pre-cancerous lesions.

Deadlines:
Letter of Intent: 30 days before the application due date
Application: November 17, 2016; June 14, 2017; November 17, 2017; June 14, 2018
PAR-16-385 Expiration Date June 15, 2018