

## Funding Bulletin

May 6<sup>th</sup>, 2016 (Vol. 3, No. 14)

### Funding Information

To receive funding information, please contact [funding@wichita.edu](mailto: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](mailto: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](mailto:funding@wichita.edu) to have a custom search ran.

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### How to Apply

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

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

## OFFICE OF RESEARCH WORKSHOPS

For more information contact Jana Henderson at [jana.henderson@wichita.edu](mailto:jana.henderson@wichita.edu) or 978-3285.

WORKSHOP TITLE	DATE	TIME	ROOM	DESCRIPTION
<b>Research Compliance Open Lab</b>	May 18	9:00-11:00 a.m.	Devlin Hall Innovation Hub 215	Faculty, staff and students needing assistance in determining potential export or import controls affecting responsibilities and activities at WSU should plan to attend. <b><i>These are come-and-go labs with no registration required.</i></b>
<b>Pivot Open Lab</b>	June 23	2:30-4:00 p.m.	409E Jardine	The Office of Research will be holding Open Labs this fall for Faculty interested in using PIVOT as well as answering questions regarding their existing account. <b><i>This is a come and go lab with no registration required.</i></b>

## NOTICES

### Pivot User Satisfaction Survey

The Office of Research has created a short survey to gauge user satisfaction for Pivot, the comprehensive funding database that the university subscribes to. Participation is confidential and optional; results will be utilized to evaluate customer satisfaction with funding search support. Your feedback is appreciate! Please follow the link below to access the survey:

[https://wichitastate.co1.qualtrics.com/jfe/form/SV\\_db6YUIt2HA8c6x](https://wichitastate.co1.qualtrics.com/jfe/form/SV_db6YUIt2HA8c6x)

## 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](mailto:proposals@wichita.edu), by the internal due date listed in the Funding Bulletin if you wish to submit a limited submission program. **There are currently five open limited submission competitions:**

### **(1) Materials Research Science and Engineering Centers**

*National Science Foundation (NSF)*

**Due Date: Internal 5/20/2016; Preliminary Proposal 7/1/2016; Full Proposal 12/2/2016**

Materials Research Science and Engineering Centers (MRSECs) provide sustained support of interdisciplinary materials research and education of the highest quality while addressing fundamental problems in science and engineering. MRSECs address research of a scope and complexity requiring the scale, synergy, and interdisciplinarity provided by a campus-based research center. They support materials research infrastructure in the United States, promote active collaboration between universities and other sectors, including industry and international institutions, and contribute to the development of a national network of university-based centers in materials research, education, and facilities. A MRSEC may be located at a single institution, or may involve multiple institutions in partnership. **Only one MRSEC preliminary proposal may be submitted by any one organization as the lead institution in this competition.** NSF 16-545

- URL: <http://www.nsf.gov/pubs/2016/nsf16545/nsf16545.htm>

### **(2) Practitioner-Researcher Partnership in Cognitive Behavioral Mentoring Program**

*U.S. Department of Justice (DOJ) - Office of Justice Programs (OJP) - Office of Juvenile Justice and Delinquency Prevention (OJJDP)*

**Due Date: Internal 5/20/2016; Application 6/13/2016**

The Practitioner-Researcher Partnership in Cognitive Behavioral Mentoring Program will support the development, implementation, and evaluation of innovative mentoring approaches for youth at high risk for delinquency/juvenile and criminal justice involvement or victimization and trauma. These mentoring approaches must incorporate practices that are informed by research on cognitive behavioral interventions and techniques. The program will fund a partnership between a practitioner/service provider and an evaluator/researcher. Practitioner/service provider applicants should develop and implement cognitive behavioral-informed practices within existing mentoring programs. These new or enhanced approaches should be piloted, manualized, and implemented with

a diverse target population (defined as populations that differ demographically and/or in implementation setting). Researcher applicants should design a rigorous evaluation that examines the program design, implementation fidelity and process, and program impact. OJJDP expects the practitioner and researcher to work closely throughout the application and program development, implementation, and evaluation. OJJDP expects to make separate awards to support program development and service delivery (Category 1) and evaluation activities (Category 2). ***OJJDP will consider only one application per lead applicant; however, subrecipients may be part of multiple proposals.***

- URL: <http://www.ojjdp.gov/grants/solicitations/FY2016/PractResearcherMentoring.pdf>

### **(3) Machine Learning and Understanding for High Performance Computing Scientific Discovery**

*United States Department of Energy (DOE) - Office of Science (OS)*

**Due Date: Internal 5/20/2016; Applications 6/21/2016**

Proposals are being invited for basic research that significantly advances Machine Learning and Understanding for High Performance Computing Scientific Discovery in the context of emerging algorithms and software for extreme scale computing platforms and next generation networks. The Department of Energy has the responsibility to address the energy, environmental and nuclear security challenges that face our nation. The mission of the Office of Science is the delivery of scientific discoveries and major scientific tools to transform our understanding of nature and to advance the energy, economic, and national security of the United States. In the exascale computing timeframe, scientific progress will be predicated on our ability to process large, complex data sets from extreme scale simulations, experiments and observational facilities. Even at present, scientific data analysis is becoming a bottleneck in the discovery process; we can only assume that the problem will become more so in the coming decade. At the moment, scientists are often forced to create ad hoc solutions where a lack of scalable analytic capabilities means that there are large-scale experimental and simulation results that cannot be fully and quickly utilized. Moreover, the scientists lack dynamic insight into their analyses, unable to modify the experiment or simulation on the fly. How could we enable broadly applicable solutions to address these challenges? In this program, we envision that Machine Learning and Understanding may offer the potential to transform basic scientific research best practices, by enabling systems to self-manage, heal and find patterns and provide tools for the discovery of new scientific insights. The goal of this program is to enable and identify basic fundamental research challenges to enable extreme scale machine learning and understanding focusing specifically on high performance computing challenges. **DE-FOA-0001575 Each organization may submit at most four (4) applications as the Lead institution.**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283072>

#### **(4) William T. Grant Scholars Grants (William T. Grant Scholars Program)**

*Grant Foundation, William T.*

**Due Date: Internal 5/20/2016; Application 7/6/2016**

The Program is for those in the social, behavioral, and health sciences. The Foundation encourages Scholars to tackle important questions that will advance theory, policy, and practice for youth. Applicants identify new methods, disciplines, or content they want to learn, and propose research plans that foster their growth in those areas. It recognizes that early-career researchers are rarely given incentives or support to take such risks, so this award includes a mentoring component. Individuals should want to pursue a significant shift in their trajectories as researchers. The Foundation is focused on youth ages 5 to 25 in the United States. It funds research that increases the understanding of: - programs, policies, and practices that reduce inequality in youth outcomes; and - the use of research evidence in policy and practice. It seeks research that builds stronger theory and empirical evidence in these two areas. It intends for the research it supports to inform change. While it does not expect any one study will create that change, the research should contribute to a body of useful knowledge to improve the lives of young people. To propose research on reducing inequality, applicants should clearly identify the dimension of inequality (e.g., race, ethnicity, economic standing, and/or immigrant origins), and make a case for importance. Applicants should specify the youth outcome(s) to be studied (e.g., academic, social, behavioral, and/or economic), and show that the outcomes are currently unequal. **Major divisions (e.g. Colleges of Arts and Sciences, Medical School) of any institution may nominate only one applicant each year.**

- URL: <http://wtgrantfoundation.org/grants#apply-wtgrant-scholars>

#### **(5) NIH Director's Early Independence Awards (DP5)**

*National Institutes of Health (NIH) - National Institute of Dental & Craniofacial Research (NIDCR)*

**Due Date: Internal 7/1/2016; Letters of Intent 8/12/2016; Applications 9/12/2016**

The NIH Director's Early Independence Award Program supports exceptional investigators who wish to pursue independent research directly after completion of their terminal doctoral/research degree or clinical residency, thereby forgoing the traditional post-doctoral training period and accelerating their entry into an independent research career. **Only up to two applications per institution are allowed.**  
**RFA-RM-16-006**

- URL: <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-16-006.html>

## INTERNAL OPPORTUNITIES

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 2016 deadlines.

For more information, visit

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

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

## GENERAL

### **Analyzing Relationships between Disability, Rehabilitation, and Work: A Small Grant Program** *Social Security Administration (SSA)*

**Due Date: 6/3/2016**

There will be two components to this program: 1) a program manager to manage the program and award stipends to individual graduate students, and 2) the graduate students who will conduct research on these disability related issues. The objective of the program is to foster new analysis of work, rehabilitation, and disability issues, which may develop innovative and fresh perspectives on disability. To assist the graduate students, SSA may provide guidance on disability issues that might be fruitful areas for research (see below for a list of potential topic areas). The Social Security Administration (SSA) provided disability benefits to 10.9 million individuals with disabilities and their dependents in December 2014 as a part of the Social Security Disability Insurance (SSDI) program. In addition, the Supplemental Security Income (SSI) program made payments to approximately 7.2 million low-income individuals who are blind or disabled. In calendar year 2014, expenditures for the SSDI and SSI programs were \$141.6 billion and \$49 billion, respectively. These programs are the Federal structure that provides cash income to individuals who do not have or who have lost the ability to support themselves in the labor market due to one or more permanently disabling conditions.

**ARDRAW-DRW-16-001**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283158>

### **FY2016 Regional Innovation Strategies Program**

*United States Department of Commerce (DOC) - Economic Development Administration (EDA)*

**Due Date: 6/24/2016**

Regional economic vitality is best accomplished through multi-stakeholder partnerships and collaborations that draw upon public, corporate, university, nonprofit, and philanthropic resources. Regional innovation and entrepreneurial ecosystems—which have a culture of idea generation, leadership, trust, openness to forging new partnerships with disparate parties, entrepreneurial development, investment capital, and a large pool of accomplished managers—often fuel these partnerships and collaborations. Robust, sustainable regional innovation ecosystems help drive national competitiveness. As part of this strategy, funding is available for capacity-building programs that provide proof-of-concept and commercialization assistance to innovators and entrepreneurs and for operational support for organizations that provide essential early-stage funding to startups. **EDA-HDQ-OIE-2016-2004868**

Under the RIS Program, EDA is soliciting applications for two separate competitions:

- the 2016 i6 Challenge; and
- the Seed Fund Support (SFS) Grant competition.
  
- **URL:** <https://www.eda.gov/oie/ris/>

### **Paul P. Fidler Research Grant**

*National Resource Center for the First-Year Experience and Students in Transition*

**Due Date: 7/1/2016**

This grant is designed to encourage the development and dissemination of knowledge that has the potential to improve the experiences of college students in transition. Proposals will be evaluated on the extent to which they:

- focus on issue(s) related to college student transitions. Though all issues related to college student transitions will be considered, special consideration will be given to proposals addressing transitions outside of the first year of college.
- clearly articulate a strong research design. Qualitative, quantitative, and mixed-method studies will be considered. Methodology must be appropriate for the research question(s).
- explore unique issues, subjects, analysis, participants and/or sample. Research must be original work of the investigators and may not have been reported elsewhere.
- have potential to have a national impact on student success initiatives. Results of the research should be relevant to a broad audience.

- **URL:** <http://sc.edu/fye/research/grant/index.html>

## ARTS & HUMANITIES

### **Division of Preservation and Access: Research and Development (formerly Preservation and Access Research and Development Grants)**

*National Endowment for the Humanities (NEH)*

**Due Date: 6/21/2016**

The Research and Development program supports projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage--from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence--and to develop advanced modes of organizing, searching, discovering, and using such materials. This program recognizes that finding solutions to complex problems often requires forming interdisciplinary project teams, bringing together participants with expertise in the humanities; in preservation; and in information, computer, and natural science. All projects must demonstrate how advances in preservation and access would benefit the cultural heritage community in supporting humanities research, teaching, or public programming. The Research and Development program is now offering grants for planning and basic research (Tier I). The grants support planning and preliminary work for large-scale research and development projects, and stand-alone basic research projects (such as case studies, experiments, and the development of iterative tools). The program (formerly known as Preservation and Access Research and Development) continues as well to offer grants for advanced implementation (Tier II): the development of standards, practices, methodologies, or workflows for preserving and creating access to humanities collections; and applied research addressing preservation and access issues concerning humanities collections. Also, starting in 2016 the program will hold an annual project directors' meeting that will not only highlight the progress of NEH-funded projects, but also engage the range of issues related to the stewardship of humanities collections.

- URL: <http://www.neh.gov/grants/preservation/research-and-development>



## EDUCATION

### **CCCC Advancement of Knowledge Award**

*National Council of Teachers of English (NCTE) - Conference on College Composition and Communication (CCCC)*

**Due Date: 7/15/2016**

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 2015 or 2016.

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

### **Dear Colleague Letter: Fundamental Research to Improve STEM Teaching and Learning, and Workforce Development for Persons with Disabilities within the EHR Core Research Program**

*National Science Foundation (NSF)*

**Due Date: 9/8/2016**

The National Science Foundation's (NSF) Directorate for Education and Human Resources (EHR) wishes to notify the community of their intention to support fundamental research on STEM learning for persons with disabilities, such as dyslexia or autism. The NSF intends to foster efforts to develop foundational knowledge in STEM teaching and learning for persons with disabilities in both formal and informal contexts from the earliest developmental stages of life through participation in the workforce. This notification is in relation to research on broadening participation in STEM emphasis area of Program Announcement [NSF 15-509](#), EHR Core Research (ECR): Fundamental Research in Science, Technology, Engineering, and Mathematics (STEM) Education. With this DCL, NSF invites proposals focused explicitly on advancing knowledge about STEM teaching and learning, and workforce development, for individuals with disabilities. *Research in disabilities education* includes fundamental research about learners (of all ages) with disabilities in STEM, with a particular focus on efforts to understand and address disability-based differences in STEM education and workforce participation.

#### **NSF 16-064**

Proposers are encouraged to explore a wide range of fundamental and applied research projects that may address, but are not limited to, such areas as:

- The cognitive and neurological underpinnings of mathematics learning disabilities (such as attention, working memory, spatial reasoning, or executive function) in the context of STEM education and/or employment;

- Advancing foundational theoretical constructs about self-regulated learning (such as metacognition, strategic action, learning motivation, and self-efficacy) involving students with disabilities in STEM;
  - The promise of computer and on-line training programs for improving mathematics learning and performance for students with dyslexia and other specific learning disabilities;
  - Investigating developmental trajectories of persons with specific learning disabilities, or other types of disabilities, such as dyslexia or autism, in STEM education and professional disciplines over time;
  - Studying the efficacy of STEM instructional strategies for persons with disabilities;
  - Studying instructional practices for young students with disabilities who are not responsive to typical mathematics and/or science classroom instruction;
  - Examining the auditory processing and learning mechanisms employed by students with visual impairments, and/or visual processing learning mechanisms by students who are Deaf or hard of hearing, in the context of learning science;
  - The development of STEM measures that support valid and reliable observations (e.g., progress monitoring tools or dynamic assessments);
  - The stereotype and identity threat persons with disabilities experience in STEM classrooms, research settings, and workplaces;
  - The societal and organizational characteristics that influence STEM learning, educational, and career pathways for students with specific types of disabilities;
  - Improving STEM outcomes for individuals with specific learning disabilities, including dyslexia.
- **URL:**[http://www.nsf.gov/pubs/2016/nsf16064/nsf16064.jsp?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2016/nsf16064/nsf16064.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click)

## ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

### Theoretical Research in Magnetic Fusion Energy Science

*U.S. Department of Energy (DOE) - Office of Science (OS) - Office of Fusion Energy Sciences (FES)*

**Due Date: Letters of Intent 5/13/2016; Applications 6/17/2016**

The Office of Fusion Energy Sciences (FES) of the Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving new or renewal grant applications for theoretical and computational research relevant to the U.S. magnetic fusion energy sciences program. The specific areas of interest are:

- 1. Macroscopic Stability:** This area focuses on the macroscopic (device-scale) equilibrium and stability of magnetically confined plasmas, including the prediction, avoidance, control, and mitigation of deleterious or performance-limiting instabilities.
- 2. Confinement and Transport:** This area focuses on the understanding, prediction, and control of the collisional and turbulent physical processes responsible for the loss of heat, momentum and particles from the core of magnetically confined plasmas. Work focused on theory-based predictive transport modeling will also be considered.
- 3. Boundary Physics:** This area focuses on the physical processes dominant in the edge region of magnetically confined plasmas, defined as the region from the top of the pedestal just inside the last closed flux surface to the material walls. Work focusing on the physical processes inside the plasma facing materials is not responsive to this FOA.
- 4. Plasma Heating and Non-inductive Current Drive:** This area focuses on the physical mechanisms involved in the interaction of radiofrequency (RF) waves and other external mechanisms used to heat and drive non-inductive current in magnetically confined plasmas, including the interaction of the launching structures with the surrounding plasma.
- 5. Energetic Particles:** This area focuses on the nonlinear interaction and coupling between background plasma, instabilities, and energetic particle populations--including the alpha particles generated by the fusion reactions--and the impact of this interaction on the confinement of the energetic particles and the overall plasma performance.

A Principal Investigator may submit only one application in response to this FOA, but applications can target multiple topical areas. Multiple applications from the same institution are allowed, subject to the stated constraints. Priority will be given to applications that address the FES strategic priorities as well as the critical issues identified in recent community workshops. Verification and validation (V&V) work will be considered, provided it has a strong theory component and it is not predominately a data analysis or evaluation effort, which is normally supported by research at the major fusion facilities. Research focused on theoretical aspects of plasma diagnostics, including synthetic diagnostics, and work supporting enabling science, such as atomic physics, are not supported under this FOA. Efforts

focused on crosscutting areas, such as magnetic reconnection, are eligible provided they address issues of direct relevance to the plasma science of magnetic confinement. **DE-FOA-0001560**

- URL: <http://science.energy.gov/fes/funding-opportunities/>

### **FY2017 Basic Research Challenge (BRC) Program**

*U.S. Department of Defense (DoD) - Office of Naval Research (ONR)*

**Due Date: White Papers 6/3/2016; Applications 8/12/2016**

Notice seeking applications for basic research relating to the following topic areas: Establishing a Multiscale Theory for Cavitation in Complex Soft Materials; Understanding the Phase-Resolved Bottom-Side Ionosphere (BSION); Decentralized Perception in Data-Rich Dynamic Environments; A Scientific Basis for Enhanced Manufacturability with Electrical Currents; Distributed Sensing, Actuation and Control in Soft Materials for Flexible Appendages; Predictive and Causal Modeling -Bridging the Gap; and 7 New Opportunities to Transform Wall-bounded Turbulence Understanding. **N00014-16-S-BA10**

- URL: <http://www.grants.gov/view-opportunity.html?oppld=283194>

### **Enabling Extreme Real-time Grid Integration of Solar Energy (ENERGISE)**

*United States Department of Energy (DOE) - Office of Energy Efficiency and Renewable Energy (EERE) - Golden Field Office (GFO)*

**Due Date: 6/17/2016; 8/26/2016**

As part of the Department of Energy's Grid Modernization and SunShot Initiatives, this Enabling Extreme Real-Time Grid Integrations of Solar Energy (ENERGISE) Funding Opportunity Announcement (FOA) supports the research and development of highly scalable distribution system planning and real-time operation solutions that enables seamless interconnection and integration of high penetration solar generation onto the electricity grid in a cost-effective, secure, and reliable manner. The envisioned ENERGISE solutions will require the extensive use of sensor, communication, and data analytics technologies to gather up-to-the-minute measurement and forecast data from diverse sources and perform continuous optimization analysis and active control for existing and new PV installations in real time. The solutions need be compatible with the existing grid architecture in the near term and with the advanced grid architecture in the long term. The solutions should also be designed with consideration of the interoperability and cybersecurity requirements. **DE-FOA-0001495**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283450>

## **Research, Development and Training in Isotope Production**

*United States Department of Energy (DOE) - Office of Science (OS) - Office of Nuclear Physics*

**Due Date: 7/1/2016**

The Office of Nuclear Physics (NP), Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving applications for Research and Development (R&D) on novel methods to produce radioactive or enriched stable isotopes needed for a wide variety of research and applications. This announcement is administered under the NP Isotope Development and Production for Research and Applications (IDPRA) Sub-Program. The proposed research and development should generate data relevant to isotope production or lead to new and innovative technologies, or improvements to existing technologies, to foster enhanced production of isotopes. Successful proposals will clearly describe how the outcome of the proposed work would support and enhance the production of isotopes used for research and applications in medicine, homeland security, the physical sciences, biological and geological sciences, energy, industry, etc. Applications incorporating effective ways to train personnel with essential knowledge and skills related to the production, processing, purification, and distribution of enriched stable and radioactive isotopes are strongly encouraged. The DOE Isotope Program is presently making significant investments in the establishment of a broad-scope stable isotope enrichment capability (described in the 2015 NSACI report in the Supplemental Information section of this FOA). Therefore, new proposals aimed at stable isotope enrichment will have a better chance for funding if they involve clearly new and efficient production of one or more specific stable isotopes. Proposals are encouraged that advance production technologies for high priority radioactive and stable isotopes whether specifically mentioned in the supplementary documents or not. Successful proposals aimed at conducting R&D on production of isotopes, will make a clear and compelling case that the project will lead to enhanced availability of isotopes important to current and future significant research and applications, but that are presently in short supply. **DE-FOA-0001588**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283293>

## **Multidisciplinary Research Program of the University Research Initiative**

*U.S. Department of Defense (DoD) – Air Force*

**Due Date: White papers 8/1/2016; Applications 11/15/2016**

Notice seeking application supporting basic multidisciplinary research in science and engineering. The current solicitation focuses on Air Force relevant topics, including: Foundations of Interactive Protocols for Quantum Computation and Communications; Bioinspired Low-Energy Information Processing; Autonomous Research Systems for Materials Development; Beam/Wave Dynamics in Geometrically Complex Systems with Emitting Boundaries; Atmospheric disturbances at high altitudes; Revolutionary Advances in Computational Quantum Many Body Physics; Melanin: Unique Biopolymers for Functional

Precision Nanoscale Materials; and Adaptive Oxides for Biomimetic Synapse Design via Modulation of Internal States. **N00014-16-R-FO05**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283045>

## HEALTH, LIFE & EARTH SCIENCES

### **Research Opportunities in Space and Earth Sciences (ROSES) - Terrestrial Hydrology**

*National Aeronautics and Space Administration (NASA)*

**Due Date: Notices of Intent 5/13/2016; Applications 7/15/2016**

The NASA Terrestrial Hydrology program (THP) has the scientific objective to use remote sensing to develop a predictive understanding of the role of water in land-atmosphere interactions and to further the scientific basis of water resources management. The NASA THP is a component of the Global Water and Energy Cycle Focus Area (see Section 2.4 of Appendix A.1). THP uses NASA's unique view from space to study hydrologic processes associated with runoff production, hydrologic fluxes at the land-air interface, and terrestrial water stores. THP works in concert with other Earth Science Division (ESD) programs, also studying the global water cycle (e.g., precipitation, physical oceanography), to describe and understand the connections between the cycle's different parts. THP fosters the development of hydrologic remote sensing theory, the scientific basis for new hydrologic satellite missions, hydrologic remote sensing field experiments, and the interface of hydrology with other disciplines, such as those addressed by the Terrestrial Ecology program and Modeling Analysis and Prediction (see ROSES-2016 elements A.4 and A.13, respectively). Particular emphasis is placed on the application of satellite-based remotely sensed data for characterizing, understanding, and predicting the terrestrially linked components of the hydrologic cycle and the dynamics of large-scale river basins. THP is currently focused on research relating to multiple missions, either currently operating, such as Gravity Recovery and Climate Experiment (GRACE), Global Precipitation Measurement (GPM) and Soil Moisture Active Passive (SMAP); or in planning and development, such as the Gravity Recovery and Climate Experiment Follow-On (GRACE-FO) and the Surface Water Ocean Topography (SWOT). THP projects are also extensively using data collected at previous or current field campaigns and projects, such as SMAPVEX (<http://smap.jpl.nasa.gov>), AirMOSS (<http://airmoss.jpl.nasa.gov>), or numerous others, both national and international. THP furthers study of the relationship between satellite interferometric measurements of surface deformation and changes in underground water stores. THP continues to encourage use of NASA investments to improve the use of remote sensing information in weather and climate models, primarily through data assimilation approaches involving land surface models. The

Land Information System (LIS; <http://lis.gsfc.nasa.gov>) provides a modeling test bed for potential investigations of this domain, along with an entrée into activities of other U.S. agencies. THP is one of the nation's programs supporting the U.S. Global Energy and Water Cycle Exchanges Project (U.S. GEWEX) and the U.S. Global Research Program (USGCRP), especially its recent annual priorities related to Water Cycle extremes. **NNH16ZDA001N-THP**

To initiate the development of The Next Generation Cold Land Processes Experiment, NASA solicits projects to:

1. Refine and articulate new motivating science questions.
2. Integrate individual project research questions into a single motivating science plan.
3. Fuse individual in situ and airborne plans into an implementation plan that addresses the science plan.
4. Lead the first year implementation of the field activity.

- **URL:**<https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={7EB56503-B081-FE45-4945-69070F35B951}&path=open>

## **Research Opportunities in Space and Earth Sciences (ROSES) - Terrestrial Ecology**

*National Aeronautics and Space Administration (NASA)*

**Due Date: Notices of Intent 5/16/2016; Proposals 8/1/2016**

This announcement offers opportunities for terrestrial ecology research within NASA's Earth Science Division. The NASA Terrestrial Ecology Program uses airborne and space-based observations to understand how the Earth's carbon cycle and terrestrial ecosystems respond to environmental change and human intervention. The goals of NASA's Terrestrial Ecology Program are to improve understanding of the structure, function, and productivity of terrestrial ecosystems across the globe, their interactions with the atmosphere and hydrosphere, and their role in the cycling of the major biogeochemical elements and water. The program addresses the spatial and temporal variability of terrestrial ecosystem states and processes, how terrestrial ecosystems and biogeochemical cycles respond to and affect global environmental change, and what future changes might be expected in carbon cycle dynamics and ecosystem properties. The research approach combines (i) the use of remote sensing to observe and analyze changes in terrestrial ecosystems; (ii) field campaigns and related process studies to elucidate ecosystem function at different scales; and (iii) data assimilation and modeling to analyze and predict responses of ecosystem and biogeochemical cycles to environmental change. The program seeks to strengthen the theoretical and scientific basis for measuring Earth surface properties using reflected, emitted, and scattered electromagnetic radiation and develops the methodologies and technical approaches to analyze and interpret such measurements. These activities provide a foundation for the development of new remote sensing capabilities for understanding and monitoring terrestrial ecosystems at regional to global scales. The

focus of this current program element is the further development of ABoVE with a focus on the initiation of the first ABoVE Airborne Campaign to be conducted in 2017. This program element aims to build on and extend the research on boreal and arctic ecosystems supported in the first phase of ABoVE in response to the 2014 call from NASA's Terrestrial Ecology Program.

#### **The Arctic-Boreal Vulnerability Experiment (ABoVE):**

This current program element calls for research on arctic and boreal ecosystems with an emphasis on producing scientific results that are pertinent to the objectives of both the NASA Terrestrial Ecology Program and to policy and management decisions at local to global scales. We are interested in applying airborne remote sensing tools to help understand the vulnerability and resilience of northern ecosystems at regional scales within the ABoVE Study Area. Proposals to collect, analyze, and interpret airborne data sets are sought that address the ABoVE Tier 2 science questions. Integration of the airborne data into an ecosystem modeling framework is encouraged. Collection of ground data to support the analysis and interpretation of the airborne data sets may be included, but only when it is crucial to interpreting the airborne data. Airborne measurements that are pertinent to terrestrial ecosystem applications of NASA satellite missions and/or instruments either currently in development (e.g., NISAR, ICESat-2, GRACE-FO, OCO-3), preformulation (HySPIRI, PACE, ASCENDS), or operating (e.g., SMAP, OCO-2, Landsat-7/8, VIIRS, MODIS, etc.) are of particular interest. Furthermore, permafrost dynamics; responses to ecological disturbance; ecosystem physiology; biosphere-atmosphere exchange; carbon-hydrology interactions; and improved understanding of the structural and functional properties of forest, shrub, and/or herbaceous vegetation in the extensive areas of largely unmanaged forest and tundra regions of the ABoVE Study Area are subjects of interest for airborne data collection and analyses. **NNH16ZDA001N-TE**

- **URL:**<https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={AA0E0655-8253-F1CB-9EC7-230D686F6129}&path=open>

#### **2016 Greater Value Portfolio Grant**

*Dounaghue Foundation*

**Due Date: Letters of Intent 5/17/2016; Full Applications 7/26/2016**

The [Patrick and Catherine Weldon Donaghue Medical Research Foundation](#) has issued a Request for Proposals for its 2016 Greater Value Portfolio grant program. Through the program, the foundation will award three-, four-, and five-year grants of up to \$600,000 in support of projects with an innovative approach to building a higher value healthcare system. The goal of the program is to test new approaches and tools that organizations can readily use to improve the value of the health care they provide to their patients and communities. Eligible topics include strategies to engage consumers in a better understanding of the current status of value in health care; engage providers and health systems in defining and assessing the value of their services; encourage providers and their patients with serious



illnesses to engage in difficult conversations about preferences and trade-offs related to alternative treatment options; identify, highlight, and resolve structural dysfunctions or inefficiencies between healthcare settings; and creating economic models that evaluate and address current financial disincentives for systemic change (i.e., paying for current programs with future savings or paying for social determinants of health with the savings from lower clinical services) The program is open to investigators at tax-exempt organizations in the United States. Letters of Intent must be received no later than May 17. Upon review, selected applicants will be invited to submit a full application by July 26, 2016.

- URL: <http://donoghue.org/wp-content/uploads/Greater-Value-Grant-Announcement-2016.pdf>

### **INTERfering and Co-Evolving Prevention and Therapy**

*United States Department of Defense (DOD) - Defense Advanced Research Projects Agency (DARPA) - Biological Technologies Office (BTO)*

**Due Date: Abstracts 5/19/2016; Proposals 7/7/2016**

Current preventive and therapeutic approaches to address viral pathogens, including vaccines and antivirals, are designed to target the virus in its circulating state or at the time of diagnosis. However, pathogens mutate and evolve over time, becoming resistant to many therapies. Fastevolving viruses with changing/heterogeneous surface antigens or complex immunopathogenesis among multiple serotypes (e.g., influenza and dengue, respectively) are particularly challenging. The current paradigm of static therapeutics and preventives relies on repeated and timeconsuming development, manufacturing, and testing of new therapies and vaccines. This results in major health response gaps, economic burden, and limited capability to respond rapidly to emerging strains and bio threats. For many viral diseases there are no approved vaccines and few (if any) therapeutic options. The goal of the INTERfering and Co-Evolving Prevention and Therapy (INTERCEPT) program is to explore and evaluate virus-based therapeutic interfering particles (TIPs) that parasitize, interfere, and co-evolve with viral targets as a means of adaptively preventing, controlling, and eliminating acute or chronic infection. The novel path explored in this program is based upon previously reported Defective Interfering Particles (DIPs), viral-derived particles with partially deleted genomes that arise during a natural infection. DIPs lack genes encoding replication enzymes and capsid proteins, and thus require co-infection with the wildtype parent virus to replicate and mobilize.<sup>1</sup> DIPs have been isolated from numerous viral infections and shown to interfere with the replication and packaging processes through stoichiometric competition for essential viral components.<sup>2</sup> It has been suggested that DIPs may have therapeutic and protective potential and may serve as a broad range treatment approach to combat respiratory infections. For example, a cloned Influenza-A DIP was effective in protecting from infection by Influenza-A, as well as by heterologous respiratory viruses in small animal models.<sup>3</sup> In addition, given their transmission potential, it has been proposed that interfering viral particles may serve as anti-viral therapies to reduce disease incidence and thus control epidemics. The INTERCEPT program

aims to explore and evaluate the potential of TIPs as a therapeutic and/or preventive approach for the long term control of a broad range of fast-evolving viruses. The program will address the key technical challenges and risks of TIP safety, efficacy, longterm co-evolution, and generalizability, by leveraging novel molecular and genetic design tools, high throughput genomic technologies, and advanced computational methods in a multidisciplinary, multi-team effort. To explore the TIP concept as a potential therapeutic and/or preventive platform that can keep pace with fast-evolving pathogens, INTERCEPT will address four fundamental questions:

1. Safety & efficacy: Can TIPs be built that are safe and out-compete the pathogen to control infections short-term?
2. Co-evolution: Can TIPs evolve and keep pace with evolving pathogens to control an infection long-term?
3. Population-scale efficacy: Can TIPs co-transmit alongside pathogen to help control the spread of infectious disease across populations?
4. Generalizability: Can the TIP concept be extended across multiple viruses and for multiple acute and chronic infectious diseases?

DARPA anticipates that the INTERCEPT program will encompass a four year effort organized in two phases of two years duration each. During the Phase I period, performer teams will establish proof-of-concept of TIPs safety, broad range efficacy, and initial TIP-pathogen coevolution using in vitro and in vivo models of viral infection, as well as mathematical models of TIP-pathogen-host dynamics. The Phase II period will focus on the validation of long-term TIP safety and efficacy, long-term co-evolution studies, and TIP co-transmission dynamics for population-scale disease control. **DARPA-BAA-16-35**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283354>

## Promising Innovations Grant

*Kendal Charitable Funds*

**Due Date: Letters of Intent 5/22/2016; Proposals 8/5/2016**

Kendal Charitable Funds, via the Lloyd Lewis Fund for Promising Innovations, is seeking ideas that can enhance the lives of an aging population through services and research. The organization interested in developing new understandings and awareness of issues and opportunities in support of this initiative. It will give priority to projects that have significant potential for change and replication.

### **The proposed project must focus on the following topic:**

Family, friends and unpaid caregivers of older adults experience many challenges, some of which are unique to their situations and some of which are more universal. Proposals are sought that identify and address these challenges in ways that support and nurture primary caregivers, educate their support systems, and enhance the quality of life of the individuals in their care.

- URL: <http://www.kendalcharitablefunds.org/2016-grant-opp/>

### **Understanding the Risks of Tackling in Youth Football**

*Centers for Disease Control and Prevention (CDC) - Natl Center for Injury Prevention & Control (NCIPC); Office of Noncommunicable Diseases, Injury and Environmental Health (ONDIEH)*

**Due Date: White Papers 5/25/2016**

Notice supporting applications a rigorous and robust evaluation of the risks of tackling in youth football and/or identify what age groups are most at risk for injury. Focus areas include: Assessing concussion rates and/or the number/strength of head impacts in contact versus noncontact programs; Examining the number or concussions and/or the number/strength of head impacts among athletes who participate in youth football programs; Assessing the safety benefits of alternative rules, practices, policies and player behaviors; Examining parents' perceptions of the risks and benefits of alternative rules, practices, policies and player/coaching behaviors. **BAA 2016-N-17798**

- URL: <https://www.fbo.gov/?s=opportunity&mode=form&id=3144f796ab53e251736e9df324b474ce&tab=core&cvview=0>

### **ACA-Implementation Research**

*Robert Wood Johnson Foundation*

**Due Date: 6/1/2016**

The [Robert Wood Johnson Foundation](#) has issued a Request for Proposals for research studying implementation of the Affordable Care Act at the state level. Through the State Health Access Reform Evaluation program, RWJF will award grants of up to \$150,000 over six to twelve weeks for research projects that contribute to the knowledge of how implementation of the Affordable Care Act affects the way people get health insurance and access care. To that end, the program seeks timely policy-relevant studies with a strong empirical design that can inform policy and health reform implementation. Eligible studies may be of a single state, groups of states, or a national analysis that uses state-level data, and projects may be generated from a range of disciplines, including health services research; economics; sociology; program evaluation; political science; public policy; public health; public administration; law; business administration; or other related fields. Eight to twelve studies will be funded. Researchers, as well as practitioners and public and private policy makers working with researchers, are eligible to submit proposals through their organizations. Priority will be given to public entities or nonprofit organizations that are tax-exempt under Section 501(c)(3) of the Internal Revenue Code and are not a private foundation or Type III supporting organization.

- URL: <http://www.rwjf.org/en/library/funding-opportunities/2016/state-health-access-reform-evaluation--share-.html>

### **Magistro Family Foundation Research Grant (MFFRG)**

*Foundation for Physical Therapy (FPT)*

**Due Date: Letters of Intent 6/1/2016; Full Applications 8/3/2016**

The Foundation, like the physical therapy profession, is dedicated to the goal of improving the quality and delivery of patient care. The Foundation accomplishes this goal by providing support to emerging investigators to promote scientifically based and clinically relevant research related to the effectiveness of physical therapist practice. Grants can be awarded for research in:

- Evaluating the effectiveness of interventions most commonly delivered by physical therapists as determined by current practice patterns
- Developing innovative physical therapist interventions and evaluating their effectiveness

Preferred consideration will be given to studies that examine not only the therapeutic effectiveness of interventions, but also their cost effectiveness. The grants are generously funded by the Magistro Family Foundation Endowment Fund.

- URL: <http://www.foundation4pt.org/apply-for-funding/research-grants/>

### **State Health Access Reform Evaluation (SHARE)**

*Johnson Foundation, Robert Wood (RWJF)*

**Due Date: 6/1/2016**

States continue to play a critical role in the implementation of health reform. States have made different choices in the rollout of the Affordable Care Act (ACA), including whether to establish a State-Based Marketplace, use a Federal-State Partnership Model, or participate in the Federally Facilitated Marketplace. States also have made different decisions regarding Medicaid expansion, with several states opting to implement an early (pre-2014) expansion for adults without dependent children, some states expanding in 2014, and several states negotiating unique Medicaid expansion approaches post-2014. Further, some states are experimenting with new payment and delivery systems that integrate health care services, and exploring opportunities to bridge health and social sectors to improve population health. This solicitation seeks to fund timely policy-relevant studies with strong empirical designs that will inform policy and health reform implementation. Eligible studies may be of a single state, groups of states, or national analyses that use state-level data. RWJF is primarily interested in timely studies which have policy relevance. Projects may be generated from disciplines including health services research; economics; sociology; program evaluation; political science; public policy; public health; public administration; law; business administration; or other related fields.

- URL: <http://www.rwjf.org/en/library/funding-opportunities/2016/state-health-access-reform-evaluation--share-.html>

## Career Development Award

*U.S. Dept. of Defense (DoD) – Congressionally Directed Medical Research Programs (CDMRP)*

**Due Date: Pre-Applications 6/8/2016; Applications 9/13/2016**

Applications to the Fiscal Year 2016 (FY16) Peer Reviewed Cancer Research Program (PRCRP) are being solicited for the Defense Health Agency, Research, Development, and Acquisition (DHA RDA) Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA). The goal of the PRCRP is to improve quality of life by decreasing the impact of cancer on active duty Service members, their families, and the American public. The PRCRP is charged by Congress with the mission to investigate cancer risks and knowledge gaps that may be relevant to active duty Service members, their families, and other military beneficiaries. To be considered for funding, applications for the PRCRP Career Development Award must address at least one of the Topic Areas as directed by Congress. Research Applications in the areas of breast, prostate, lung (excluding mesothelioma), or ovarian cancer will not be accepted. In addition to addressing at least one of the required Congressionally Directed Topic Areas in Section I.B., applications for the PRCRP Career Development Award are strongly encouraged to address at least one of the FY16 PRCRP Military Relevance Focus Areas. If the proposed research does not respond to one of the FY16 PRCRP Military Relevance Focus Areas, the significance of the potential outcomes to the Service members, their families, Veterans, and other DoD FY16 Peer Reviewed Cancer Career Development Award 4 military beneficiaries must be addressed. Military relevance in medical research focuses on critical health issues or gaps in biomedical knowledge that may affect the health and well-being of the military. To address the cancer health needs of both deployed and non-deployed military personnel, their dependents, retirees, and Veterans, the FY16 PRCRP seeks to support studies that are responsive to the Military Relevance Focus Areas listed below:

- Militarily relevant risk factors associated with cancer (e.g., ionizing radiation, chemicals, infectious agents, and environmental carcinogens)
- Gaps in cancer prevention, early detection/diagnosis, prognosis, treatment, and/or survivorship that may affect the general population but have a particularly profound impact on the health and well-being of military Service members, Veterans, and their beneficiaries

Applications that address exposures, conditions, or circumstances that are unique to the military, or disproportionately represented in a military beneficiary population, are the highest priority, though any applications that address the above focus areas will be considered.

The ***PRCRP Career Development Award*** supports independent, early-career investigators to conduct impactful research with the mentorship of an experienced cancer researcher (i.e., the Designated Mentor) as an opportunity to obtain the funding, guidance, and experience necessary for productive, independent careers at the forefront of cancer research. This award supports impactful research projects with an emphasis on discovery. Under this award mechanism, the early-career investigator is considered the Principal Investigator (PI), and the application should focus on the PI's research and career development. It should be clear that the proposed research is intellectually designed by the PI

and not a product of the Designated Mentor. Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated. **W81XWH-16-PRCRP-CDA**

- URL: <http://cdmrp.army.mil/funding/prcrp.shtml>

### **Idea Award with Special Focus**

*U.S. Dept. of Defense (DoD) – Congressionally Directed Medical Research Programs (CDMRP)*

**Due Date: Pre-Applications 6/8/2016; Applications 9/13/2016**

Applications to the Fiscal Year 2016 (FY16) Peer Reviewed Cancer Research Program (PRCRP) are being solicited for the Defense Health Agency, Research, Development, and Acquisition (DHA RDA) Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA). The goal of the PRCRP is to improve quality of life by decreasing the impact of cancer on active duty Service members, their families, and the American public. The PRCRP is charged by Congress with the mission to investigate cancer risks and knowledge gaps that may be relevant to active duty Service members, their families, and other military beneficiaries. To be considered for funding, applications for the PRCRP Idea Award with Special Focus must address at least one of the Topic Areas as directed by Congress. Research Applications in the areas of breast, prostate, lung (excluding mesothelioma), or ovarian cancer will not be accepted. In addition to addressing at least one of the required Congressionally Directed Topic Areas in Section I.B., applications for the PRCRP Idea Award with Special Focus must also address at least one of the FY16 PRCRP Military Relevance Focus Areas. Military relevance in medical research focuses on critical health issues or gaps in biomedical knowledge that may affect the DoD FY16 Peer Reviewed Cancer Idea Award with Special Focus 4 health and well-being of the military. To address the cancer health needs of both deployed and non-deployed military personnel, their dependents, retirees, and Veterans, the FY16 PRCRP seeks to support studies that are responsive to the Military Relevance Focus Areas listed below:

- Militarily relevant risk factors associated with cancer (e.g., ionizing radiation, chemicals, infectious agents, and environmental carcinogens)
- Gaps in cancer prevention, early detection/diagnosis, prognosis, treatment, and/or survivorship that may affect the general population but have a particularly profound impact on the health and well-being of military Service members, Veterans, and their beneficiaries

Applications that address exposures, conditions, or circumstances that are unique to the military, or disproportionately represented in a military beneficiary population, are the highest priority, though any applications that address the above focus areas will be considered.

The ***Idea Award with Special Focus*** supports innovative, untested, high-risk/potentially highreward concepts, theories, paradigms, and/or methods in cancer research that are relevant to Service

members, their families, Veterans, and other military beneficiaries. The “Special Focus” of this award mechanism is on exposures, conditions, or circumstances that are unique to the military, disproportionately represented in a military beneficiary population, or may affect mission readiness. Cancers or circumstances with cancer risk that may affect military families are of special importance to the care and well-being of the military for total mission readiness. The advancement of knowledge in cancer research, patient care, and/or treatment options in the military health system is critical to active duty Service members, their families, Veterans, other military beneficiaries, and the American public. Military relevance should be articulated with respect to the overall military healthcare system, the FY16 PRCRP Military Relevance Focus Areas, and the mission of the DHP and the FY16 PRCRP. For more information, review the following websites: Military Health System (<http://www.health.mil>), Department of Veterans Affairs (<http://www.va.gov/>), the PRCRP (<http://cdmrp.army.mil/prcrp/default.shtml>), and PRCRP Report to Congress (<http://cdmrp.army.mil/prcrp/reports/reports.shtml>). The Idea Award with Special Focus is not intended to support a logical progression of an already established research project. The proposed research approach should be innovative. Innovative research may introduce a new paradigm, challenge existing paradigms, look at existing problems from new perspectives, or exhibit other highly creative qualities. The proposed research project should include a well-formulated, testable hypothesis based on strong scientific rationale and study design. **W81XWH-16-PRCRP-IA**

- URL: <http://cdmrp.army.mil/funding/prcrp.shtml>

### **Translational Team Science Award**

*U.S. Dept. of Defense (DoD) – Congressionally Directed Medical Research Programs (CDMRP)*

**Due Date: Pre-Applications 6/8/2016; Applications 9/13/2016**

Applications to the Fiscal Year 2016 (FY16) Peer Reviewed Cancer Research Program (PRCRP) are being solicited for the Defense Health Agency, Research, Development, and Acquisition (DHA RDA) Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA). The goal of the PRCRP is to improve quality of life by decreasing the impact of cancer on active duty Service members, their families, and the American public. The PRCRP is charged by Congress with the mission to investigate cancer risks and knowledge gaps that may be relevant to active duty Service members, their families, and other military beneficiaries. To be considered for funding, applications for the PRCRP Translational Team Science Award must address at least one of the FY16 PRCRP Topic Areas as directed by Congress. Research applications in the areas of breast, prostate, lung (excluding mesothelioma), or ovarian cancer will not be accepted. In addition to addressing at least one of the required Congressionally Directed Topic Areas in Section I.B., applications for the FY16 PRCRP Translational Team Science Award must also DoD FY16 Peer Reviewed Cancer Translational Team Science Award 4 address at least one of the FY16 PRCRP Military Relevance Focus Areas. Military relevance in medical research focuses on critical health issues or gaps in biomedical knowledge that may affect the health and well-being of the military.

To address the cancer health needs of both deployed and non-deployed military personnel, their dependents, retirees, and Veterans, the FY16 PRCRP seeks to support studies that are responsive to these Military Relevance Focus Areas:

- Militarily relevant risk factors associated with cancer (e.g., ionizing radiation, chemicals, infectious agents, and environmental carcinogens)
- Gaps in cancer prevention, early detection/diagnosis, prognosis, treatment, and/or survivorship that may affect the general population but have a particularly profound impact on the health and well-being of military Service members, Veterans, and their beneficiaries Applications that address exposures, conditions, or circumstances that are unique to the military, or disproportionately represented in a military beneficiary population, are the highest priority, though any applications that address the above focus areas will be considered.

The **Translational Team Science Award** supports hypothesis-driven translational studies associated with an ongoing or completed clinical trial that could lead to a next-phase clinical trial or future clinical application. By leveraging information from ongoing or completed clinical trials, research projects funded by the TTSA should address critical knowledge gaps in outcomes, validate key research and expand upon potential transformative results, or investigate novel findings. Observations from ongoing or completed clinical trials may be utilized to formulate a new hypothesis to move to the next research stage or step of implementation of the clinical outcomes. The TTSA is not intended to fund the ongoing clinical trial. Applications associated with a clinical trial not yet started are discouraged. The TTSA may support preclinical studies in animal models and human subjects and human anatomical substances. Accordingly, development or use of relevant preclinical models may be included. The TTSA is not intended to support high-throughput screenings, sequencing, etc. **W81XWH-16-PRCRP-TTSA**

- URL: <http://cdmrp.army.mil/funding/prcrp.shtml>

### **Mentored Quantitative Research Development Award (Parent K25)**

*National Institutes of Health (NIH)*

**Due Date: 6/12/2016, 10/12/2016, 2/12/2017 (standard NIH due dates apply)**

The purpose of the Mentored Quantitative Research Career Development Award (K25) is to attract to NIH-relevant research those investigators whose quantitative science and engineering research has thus far not been focused primarily on questions of health and disease. The K25 award will provide support and "protected time" for a period of supervised study and research for productive professionals with quantitative (e.g., mathematics, statistics, economics, computer science, imaging science, informatics, physics, chemistry) and engineering backgrounds to integrate their expertise with NIH-relevant research. **PA-16-194**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-16-194.html>



### **Midcareer Investigator Award in Patient-Oriented Research (Parent K24)**

*National Institutes of Health (NIH)*

**Due Date: 6/12/2016, 10/12/2016, 2/12/2017 (standard NIH due dates apply)**

The purpose of the NIH Midcareer Investigator Award in Patient-Oriented Research (K24) is to provide support to mid-career health-professional doctorates or equivalent who are typically at the Associate Professor level or the equivalent (see Section III. Eligible Individuals) for protected time to devote to patient-oriented research (POR) and to act as research mentors primarily for clinical residents, clinical fellows and/or junior clinical faculty. **PA-16-206**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PA-16-206.html>

### **NLM Career Development Award in Biomedical Informatics and Data Science (K01)**

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

**Due Date: 6/12/2016, 10/12/2016, 2/12/2017 (standard NIH due dates apply)**

The purpose of the NLM Career Development Award (K01) in Biomedical Informatics and Data Science is to provide support and "protected time" (up to three years) for an intensive career development experience in biomedical informatics and data science leading to research independence. NLM invites K01 applications from junior investigators, who have either a health professional or research doctorate and who are in the first three years of their initial faculty positions. Candidates who received their training at one of NLM's university-based biomedical informatics training programs are encouraged to apply. **PAR-16-204**

- URL: <https://grants.nih.gov/grants/guide/pa-files/PAR-16-204.html>

### **Request for Proposals for Field Research: Global Conservation Priorities in a Changing World**

*Earthwatch Institute*

**Due Date: Preliminary Proposals 6/12/2016**

Earthwatch seeks research proposals from scientists for projects that will address global change impacts on ecosystems by (1) increasing scientific knowledge and public awareness of environmental challenges to species and their habitat, while providing locally relevant solutions; (2) increasing partnerships with grassroots organizations, as well as with governmental and non-governmental organizations (NGOs) at local and international levels; and (3) informing management plans and environmental policies. All proposed projects must have an overarching research theme directly related to global change and enable participation of citizen scientists and community members.

Earthwatch is particularly interested in interdisciplinary proposals and those that involve open-source, shared data. Earthwatch strongly welcomes proposals for project that will improve the livelihoods of human communities and will help develop scientists in emerging nations. Earthwatch invites proposals for field-based research by qualified scientists on the following topics:

- Biodiversity conservation, including native species reintroductions and maintenance of genetic diversity;
- Human-wildlife coexistence, including the reduction of conflict between humans and wildlife, the reduction of wildlife damage to crops and forests, and noninvasive pest control;
- Food-web functionality including keystone species and biodiversity, food-web relationships driven by apex predators, pollinators, large herbivores, and other keystone species;
- Adaptation to climate change-associated impacts; and
- Habitat connectivity for migratory species and preserving capacity for climate-change induced range shifts.

- URL: <http://earthwatch.org/scientific-research>

## **Request for Proposals for Field Research: Paleobiology, Archaeology, and Geology Research**

*Earthwatch Institute*

**Due Date: Preliminary Proposals 6/12/2016**

Earthwatch seeks research proposals from scientists for paleobiology, archaeology, and geological studies that are linked to today's world by (1) increasing scientific knowledge and public awareness of past environmental challenges to species and habitats in a manner that can help provide relevant solutions to current conservation problems; (2) increasing partnerships with grassroots organizations, as well as with governmental and non-governmental organizations (NGOs) at local and international levels; and (3) informing management plans and environmental policies. All proposed projects must have an overarching research theme that is vitally related to global change, and must enable participation of citizen scientists and community members. Earthwatch strongly welcomes proposals for project that will improve the livelihoods of human communities and will help develop scientists in emerging nations. Earthwatch invites proposals for field-based research from qualified scientists on the following topics:

- Paleontology studies of biodiversity conservation and extinction in geologic time including Pleistocene extinctions;
- Changing aspects of life, ecology, environments, and biogeography in geologic time, based on fossil organisms;
- Paleolimnology studies that examine the paleoenvironments of inland bodies of water;

- Paleobotany, including research utilizing data from pollen cores and other plant remains to reconstruct past environments;
  - Archaeological research that examines prehistoric Holocene change and how it affects past societies with regard to natural resources and sustainability;
  - Geophysical marine process, including coastal studies, geology, and geophysics of ocean basins;
  - Stratigraphy, structural geology and tectonics; and
  - Paleoclimatology, that examines climatic conditions, and their causes and effects, in the geologic past, using evidence found in glacial deposits, fossils, and sediments.
- URL: <http://earthwatch.org/scientific-research>

### **Autism Research Program (ARP) - Idea Development Award**

*U.S. Department of Defense (DOD) - Department of the Army - U.S. Army Medical Research and Materiel Command (USAMRMC) - Office of Congressionally Directed Medical Research Programs (CDMRP)*

**Due Date: Pre-Application 6/22/2016; Application 9/29/2016**

The ARP's vision is to improve the lives of individuals with ASD now by promoting innovative research that advances the understanding of ASD and leads to improved outcomes. The FY16 ARP Idea Development Award seeks applications from all areas of basic and preclinical research and strongly encourages applications that address the critical needs of the ASD community in one or more of the following areas:

- Assessment of novel therapeutics using valid preclinical models
- Environmental risk factors
- Mechanisms of heterogeneous clinical expression of ASD
- Mechanisms underlying conditions co-occurring with ASD (e.g., sleep disturbances, gastrointestinal issues, aggression, depression, anxiety, attention deficit)
- Factors promoting success in key transitions to independence for individuals living with ASD

### **W81XWH-16-ARP-IDA**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283335>

### **Academic Research Enhancement Award (Parent R15)**

*National Institutes of Health (NIH)*

**Due Date: 6/25/2016, 10/25/2016, 2/25/2017 (standard NIH due dates apply)**

The purpose of the Academic Research Enhancement Award (AREA) program is to stimulate research in educational institutions that provide baccalaureate or advanced degrees for a significant number of the Nation's research scientists, but that have not been major recipients of NIH support. AREA grants create opportunities for scientists and institutions otherwise unlikely to participate extensively in NIH research programs to contribute to the Nation's biomedical and behavioral research effort. AREA grants are intended to support small-scale research projects proposed by faculty members of eligible, domestic institutions, to expose undergraduate and/or graduate students to meritorious research projects, and to strengthen the research environment of the applicant institution. **PA-16-200**

- URL: <https://grants.nih.gov/grants/guide/pa-files/PA-16-200.html>

### **STTI/ATI Educational Assessment Nursing Research Grant**

*Sigma Theta Tau International Honor Society of Nursing (STTI)*

**Due Date: 7/1/2016**

This grant co-sponsored by ATI Nursing Education (ATI) with the Honor Society of Nursing, Sigma Theta Tau International (STTI) will support research demonstrating the use of standardized assessments and curriculum support materials in nursing education. Possible research areas include, but are not limited to: admission and retention of students; assessing student performance and simulation. **Applications from novice researchers who have received no other national research funds are encouraged.**

- URL: <http://www.nursingsociety.org/advance-elevate/research/research-grants/stti-ati-educational-assessment-nursing-research-grant>

### **NIDDK Short-Term Research Experience Program for Underrepresented Persons (STEP-UP) (R25)**

*National Institutes of Health (NIH) - National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)*

**Due Date: Letters of Intent 7/9/2016; Applications 8/9/2016**

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 Diabetes and Digestive and Kidney Diseases (NIDDK) R25 program is to support educational activities that enhance the diversity of the

biomedical, behavioral and clinical research workforce. NIDDK's Short-Term Research Experience for Underrepresented Persons (STEP-UP) provides funding to research institutions to provide for a national summer research experience program for both high school and undergraduate students for eight to ten weeks. STEP-UP seeks to facilitate exposure opportunities for students from diverse backgrounds underrepresented in biomedical research on a national basis, including individuals from disadvantaged backgrounds, individuals from underrepresented racial and ethnic groups and individuals with disabilities. To accomplish the stated goal, this FOA will support creative educational activities with a primary focus on Research Experiences and Mentoring Activities. **RFA-DK-16-021**

- URL: <https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-16-021.html>

### **NAWCA U.S. Standard Grants**

*United States Department of the Interior (DOI) - U.S. Fish and Wildlife Service (USFWS)*

**Due Date: 7/14/2016**

The U.S. Standard Grants Program is a competitive, matching grants program that supports public-private partnerships carrying out projects in the United States that further the goals of the North American Wetlands Conservation Act. These projects must involve only long-term protection, restoration, enhancement and/or establishment of wetlands and associated uplands habitats for the benefit of all wetlands-associated migratory birds.

- URL: <http://www.fws.gov/birds/grants/north-american-wetland-conservation-act/standard-grants/united-states.php>

## INTERNATIONAL

### **Havana Small Grants Opportunity**

*United States Department of State (DOS) - U.S. Embassy Cuba*

**Due Date: 8/15/2016**

The U.S. Embassy to Cuba Public Affairs Section (PAS) of the U.S. Department of State is pleased to announce that limited funding is available through the U.S. Embassy to Cuba Public Affairs Small Grants Program to support activities that promote U.S.-Cuba bilateral relations in the following priority areas:

1. Increase entrepreneurship and economic opportunities, especially among youth and underserved communities;
2. Enhance bilateral partnerships through the promotion of education, the access and use of technology, sports, and partnerships across the Americas.
3. Promote cultural exchange and enhance understanding of our shared history, traditions, and values through innovative means.

**SCU-040-016-GR000**

- URL: <http://havana.usembassy.gov/small-grants-program.html>

### **Havana Large Grants Opportunity**

*United States Department of State (DOS) - U.S. Embassy Cuba*

**Due Date: 8/15/2016**

The U.S. Embassy to Cuba Public Affairs Section (PAS) of the U.S. Department of State is pleased to announce that limited funding is available through the U.S. Embassy to Cuba Public Affairs Large Grants Program to support activities that promote U.S.-Cuba bilateral relations in the following three priority areas:

1. Increase entrepreneurship and economic opportunities, especially among youth and underserved communities;
2. Institutional linkages between academic or nonprofit organizations to enhance bilateral partnerships through the promotion of education, the access and use of technology, sports, and partnerships across the Americas.
3. Promote cultural exchange and enhance understanding of our shared history, traditions, and values through innovative means.

**SCU-040-016-GR000**

- URL: <http://havana.usembassy.gov/large-grants-program.html>

## MULTIPLE DISCIPLINES

### **Collaborative Center for Multidisciplinary Sciences Program**

*United States Department of Defense (DOD) - Department of the Air Force (USAF) - Air Force Materiel Command - Air Force Research Laboratory (AFRL)*

**Due Date: 6/10/2016 (amended deadlines, was originally 5/30/2016)**

AFRL/RQVC is interested in providing assistance to create a partnership to collaborate on basic and applied research in the area of aerospace vehicle design and assessment methods to include as areas of interest: high-fidelity system level design optimization, risk-quantified multi-source coupled analyses and sensitivities, goal oriented adaptive analyses, risk-quantified design space exploration and experimental validation. The research goals for each area are described in the full text announcement. The AFRL/RQVC Multidisciplinary Science & Technology Center (MSTC) will set up a partnership to establish a Collaborative Center in Multidisciplinary Sciences (CCMS). The purpose of the CCMS is to lead the integration of multiple disciplines to discover and exploit new phenomena for the system level optimization and assessment of revolutionary aerospace vehicles. The CCMS is an organizational concept in which common research interests are anticipated to be bolstered through collaboration among various participants. Developing a Collaborative Center is expected to increase the agility and responsiveness of AFRL research efforts. **FOA-AFRL-RQKP-2016-0001**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283342>

## NEW FACULTY / INVESTIGATOR

### **Kenneth B. and Mamie P. Clark Fund**

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

**Due Date: 6/15/2016**

The Kenneth B. and Mamie P. Clark Fund, supports research and demonstration activities that promote the understanding of the relationship between self-identity and academic achievement with an emphasis on children in grade levels K-8. **Applicants must be an early career psychologist (no more than 10 years post-doctoral).** The Kenneth B. and Mamie P. Clark Grant:

- Stimulates and continues the line of inquiry that Kenneth and Mamie Clark pioneered regarding the impact of race and power on the personal and psychological development of children in the United States.
- Encourages early career psychologists to implement research that builds upon the early professional work of Kenneth and Mamie Clark by addressing some of the unanswered questions raised by the Clark's early investigations.
- URL: <http://www.apa.org/apf/funding/clark-fund.aspx>

## SOCIAL & BEHAVIORAL SCIENCES

### Continuation of the Federal Justice Statistics Program

*U.S. Dept. of Justice (DOJ) - Office of Justice Programs (OJP) - Bureau of Justice Statistics (BJS)*

**Due Date: 6/6/2016**

The BJS Federal Justice Statistics Program (FJSP) serves as the national clearinghouse of administrative federal criminal case processing data. The FJSP is authorized by statute to collect, analyze, and disseminate comprehensive federal justice transaction statistics and to work jointly with other federal agencies to improve the quality of federal justice data. Under this program, administrative data are received from six federal justice agencies each year and standardized to enhance quality of case processing statistics. The data represent the federal justice stages from arrest to corrections and are used by BJS to generate annual statistics and periodic reports on topics of special interest. The data are a part of the BJS on-line query tool and users can interactively generate federal statistics for the years 1994-2013. FJSP data are archived at the National Archive of Criminal Justice Data (NACJD). This program furthers the Department's mission by working in partnership with federal justice agencies and sharing state-of-the-art knowledge and information. The FJSP supports innovative strategies and approaches needed to address the most pressing problems facing the federal criminal justice system.

**BJS-2016-9580**

- URL: <http://www.bjs.gov/content/pub/pdf/fjsp16sol.pdf>



## STUDENTS

### **NIDCD Research Dissertation Fellowship for Au.D. Audiologists (F32)**

*National Institutes of Health (NIH) - National Institute on Deafness and Other Communication Disorders (NIDCD)*

**Due Date: 8/8/2016, 12/5/2016, 4/8/2017 (standard NIH due dates apply)**

The purpose of the NIDCD Research Dissertation Fellowship for Au.D. Audiologists (F32) program is to support a comprehensive, rigorous biomedical research training, and dissertation research leading to a research doctorate (i.e., Ph.D.) in the biomedical, behavioral, or clinical sciences. **PAR-16-210**

- URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-16-210.html>