October 25, 2017

**NEW GRANTS**

**Science and Technology**

**Department of Energy/ Office of Nuclear Energy (NE)**

**FY2018 Scientific Infrastructure Support for CINR**
- Funding Opportunity Number: DE-FOA-0001773
- Application Deadline: 11/30/2017
- Estimated Maximum Total Value: $10,000,000
- Maximum Annual Value Per Award: Variable, for one year
- Expected Number of Awards: Multiple

**Summary:**
This Funding Opportunity Announcement (FOA) is for Scientific Infrastructure Support for Consolidated Innovative Nuclear Research and university research reactor upgrades for the U.S. nuclear research community.

**Link:** [DE-FOA-0001773](#)

**Department of Energy/ Office of Nuclear Energy (NE)**

**FY2018 Consolidated Innovative Nuclear Research**
- Funding Opportunity Number: DE-FOA-0001772
- NSUF Access Request Deadline: 11/8/2017
- NSUF Statement of Work Deadline: 1/12/2018
- Full R&D/NSUF-1 Application Deadline: 1/23/2018
- Estimated Maximum Total Value for U.S. University-led PS/MS R&D Projects: $40,000,000
- Maximum Total Value Per Award for U.S. University-led PS/MS R&D Projects: $800,000 for three years
- Expected Number of Awards for U.S. University-led PS/MS R&D Projects: 50

**Summary:**
This FOA addresses the competitive portion of NE’s R&D portfolio as executed through the Nuclear Energy University Program (NEUP), Nuclear Energy Enabling Technologies (NEET) Crosscutting Technology Development (CTD), and the Nuclear Science User Facilities (NSUF).

**Link:** [DE-FOA-0001772](#)

**Department of Energy/National Energy Technology Laboratory**

**FY2017 Vehicle Technologies Office Batteries and Electrification to Enable Extreme Fast Charging**
- Funding Opportunity Number: DE-FOA-0001808
- Concept Paper Deadline: 11/21/2017
- Application Deadline: 1/18/2018
- Estimated Maximum Total Value: $15,000,000
- Range of Maximum Values Per Award: $500,000 - $5,000,000 for up to three years
- Expected Number of Awards: 6 – 13
Summary:
This funding opportunity supports DOE’s strategic goal of protecting the U.S. national and economic security by reducing imports and promoting a diverse supply of reliable, affordable, and environmentally sound energy. More specifically, this FOA helps to achieve, by 2020, U.S. petroleum reduction of over 2.5 billion gallons per year through voluntary adoption of alternative fuel vehicles and infrastructure. It will include two (2) areas of interest: 1) Extreme Fast Charging Systems for Electric Vehicles and 2) Batteries for Extreme Fast Charging.

Link: [DE-FOA-0001808](#)

Department of Energy/Advanced Research Projects Agency- Energy (ARPA-E)

MEITNER FOA
Funding Opportunity Number: DE-FOA-0001798
Concept Paper Deadline: 12/4/2017
Application Deadline: TBD
Estimated Maximum Total Value: $20,000,000
Range of Maximum Total Values Per Award: $500,000 - $5,000,000 for up to three years
Expected Number of Awards: 8 - 15

Summary:
The next generation of nuclear reactor plants need to simultaneously achieve “walkaway” safe and secure operation, extremely low construction capital costs, and dramatically shorter construction and commissioning times than currently-available plants. To attain these goals, new, innovative, enabling technologies for existing advanced reactor designs are needed. ARPA-E encourages a rethinking of how pieces of the nuclear reactor system fit together when developing these enabling technologies. Through the Modeling-Enhanced Innovations Trailblazing Nuclear Energy Reinvigoration program, ARPA-E seeks to identify and develop innovative technologies to enable the advanced nuclear reactor design community to mature their designs for future commercial deployment.

Link: [DE-FOA-0001798](#)

National Science Foundation

Dynamics of Coupled Natural and Human Systems
Funding Opportunity Number: 18-503
Application Deadline: 1/23/2018
Estimated Maximum Total Value: $12,000,000
Maximum Annual Value Per Award: $1,600,000 for up to five years
Expected Number of Awards: 8 - 13

Summary:
The 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.

Link: [18-503](#)

Environmental Protection Agency

FY 2017 and FY 2018 Training and Technical Assistance to Improve Water Quality and Enable Small Public Water Systems to Provide Safe Drinking Water
Funding Opportunity Number: EPA-OW-OGWDW-17-01
Application Deadline: 12/4/2017
Estimated Maximum Total Value: $25,400,000
Maximum Total Value Per Award: Variable, for three years
Expected Number of Awards: 3-9

Summary:
EPA is soliciting applications to provide training and technical assistance for small public water systems to help such systems achieve and maintain compliance with the Safe Drinking Water Act (SDWA), and to provide training and technical assistance for small publicly owned wastewater systems, communities served by onsite/decentralized wastewater systems, and private well owners to improve water quality under the Clean Water Act (CWA). Training and technical assistance activities provided to these systems, communities and private well owners should be made available nationally in rural and urban communities and to personnel of tribally-owned and operated systems.

Link: EPA-OW-OGWDW-17-01

Health

HHS/National Institutes of Health
Testing Interventions for Health-Enhancing Physical Activity (R01 - Clinical Trial Optional)
Funding Opportunity Number: PAR-18-324
Application Deadline: 2/5/2018
Estimated Maximum Total Value: Unspecified
Maximum Annual Value Per Award: Unspecified, for five years
Expected Number of Awards: Unspecified

Summary:
The purpose is to fund highly innovative and promising research that tests multi-level physical activity intervention programs acting on at least two levels of the socio-ecological model and designed to increase health-enhancing physical activity: 1) in persons or groups that can benefit from such activity; and 2) that could be made scalable and sustainable for broad use across the nation.

Link: PAR-18-324

HHS/National Institutes of Health
Prevention and Treatment through a Comprehensive Care Continuum for HIV-affected Adolescents in Resource Constrained Settings (PACT3H) (UG3/UH3)
Funding Opportunity Number: RFA-HD-18-032
Letter of Intent Deadline: 11/22/2017
Application Deadline: 12/22/2017
Estimated Maximum Total Value: $9,000,000
Maximum Annual Value Per Award: Unspecified, for up to five years
Expected Number of Awards: 8 - 9

Summary:
The purpose is to stimulate much needed research in prevention of new HIV infections among adolescents at risk, and the identification of, linkage to and retention in care of, and long term viral suppression among youth living with HIV in low-to-middle income countries. These settings must have an HIV epidemic density defined by UNAIDS estimates as either a country 1) in which at least 200,000 people are living with HIV and the number has not decreased by more than 5% over the last 2 consecutive years of available data or 2) has an HIV prevalence of 3% or more.

Link: RFA-HD-18-032

HHS/National Institutes of Health
Research Centers for Improving Management of Symptoms Across Cancer Treatments (IMPACT) (UM1)
Funding Opportunity Number: RFA-CA-17-042
Letter of Intent Deadline: 12/17/2017
Application Deadline: 1/17/2018
Estimated Maximum Total Value: $27,000,000
Maximum Annual Direct Costs Per Award: $1,120,000 for five years
Expected Number of Awards: 3

Summary:
This opportunity is associated with the Beau Biden Cancer Moonshot Initiative established to accelerate cancer research. The purpose of this specific FOA is to promote research on the implementation and evaluation of integrated symptom monitoring and management systems for use in cancer care delivery through a Research Consortium. This research will provide new insights and valuable evidence that can be used to guide efforts on a nation-wide basis to improve symptom control for cancer patients during treatment and survivorship.

Link: RFA-CA-17-042

Related:
Title: Accelerating Colorectal Cancer Screening and follow-up through Implementation Science (ACCSSIS)(UG3/UH3)
Link: RFA-CA-17-038

Title: Accelerating Colorectal Cancer Screening and follow-up through Implementation Science (ACCSSIS)(U24)
Link: RFA-CA-17-039

Title: Coordinating Center for Improving Management of Symptoms Across Cancer Treatments (IMPACT) (U24)
Link: RFA-CA-17-043

HHS/National Institutes of Health
Limited Competition: NCI National Clinical Trials Network - Network Group Statistics and Data Management Centers (U10)
Funding Opportunity Number: RFA-CA-17-057
Letter of Intent Deadline: 12/19/2017
Application Deadline: 1/19/2018
Estimated Maximum Total Value: $42,000,000
Maximum Annual Value Per Award: Unspecified, for up to six years
Expected Number of Awards: 5

Summary:
The purpose is to solicit applications from institutions/organizations that propose to maintain Network Group Statistics and Data Management Centers (SDMCs) for the NCI National Clinical Trials Network (NCTN). The NCTN Network SDMCs will provide statistical expertise for effective scientific design, conduct, and data management of clinical trials led by the associated NCTN Network Group Operations Center.

Link: RFA-CA-17-056

Related:
Title: Limited Competition: NCI National Clinical Trials Network - Network Group Operations Centers (U10)
Link: RFA-CA-17-057

Title: Limited Competition: NCI National Clinical Trials Network - Canadian Collaborating Clinical Trials Network (U10)
Link: RFA-CA-17-058

HHS/National Institutes of Health
Typical and Atypical Patterns of Language and Literacy in Dual Language Learners (R21-Clinical Trial Optional)
Funding Opportunity Number: PA-18-328
Application Deadline: 2/16/2018
Maximum Total Direct Costs: $275,000 for two years
Expected Number of Awards: Unspecified

Summary:
The purpose is to support investigator-initiated R21 applications that will inform understanding of the typical and atypical patterns of language and literacy development of dual language learners in the United States. Applicants are encouraged to take advantage of advances in the language sciences and related fields to identify and clarify specific cognitive, linguistic, neurobiological, and sociocultural factors associated with normal and impaired language and literacy acquisition in young DLL populations.

Link: PA-18-328

Related:
Title: Typical and Atypical Patterns of Language and Literacy in Dual Language Learners (R01-Clinical Trial Optional)
Link: PA-18-316

HHS/National Institutes of Health
Mechanisms of Cancer Drug Resistance and Sensitivity: Coordinating Center (U24)
Funding Opportunity Number: RFA-CA-17-044
Letter of Intent Deadline: 12/5/2017
Application Deadline: 1/5/2018
Estimated Maximum Total Value: $2,500,000
Maximum Annual Direct Costs Per Award: $350,000, for five years
Expected Number of Awards: 1

Summary:
The opportunity is to create a U24 Coordinating Center that will integrate and facilitate trans-disciplinary research across the Drug Resistance and Sensitivity Centers (DRSCs), established under an earlier released RFA-CA-17-009 for U54 specialized centers. The DRSCs are designed to target the following area: Establish a network of multi-disciplinary research teams to study mechanisms of tumor resistance and sensitivity and develop innovative anti-cancer therapy strategies.

Link: RFA-CA-17-044

HHS/National Institutes of Health
Human Tumor Atlases (HTA) Pre-cancer Atlas Research Centers (U2C)
Funding Opportunity Number: RFA-CA-17-035
Letter of Intent Deadline: 12/18/2017
Application Deadline: 1/18/2018
Estimated Maximum Total Value: $31,250,000
Maximum Annual Direct Costs Per Award: $1,600,000 for five years
Expected Number of Awards: 3

Summary:
This opportunity is to promote research that results in a comprehensive view of the dynamic, multidimensional tumor ecosystem. Specifically, this FOA targets the following area designated as a scientific priority by the Blue Ribbon Panel (BRP): Generation of Human Tumor Atlases.

Link: RFA-CA-17-035

Related:
Title: Human Tumor Atlases (HTA) Research Centers (U2C)
Link: RFA-CA-17-034

Title: Human Tumor Atlas Network: Data Coordinating Center (U24)
Link: RFA-CA-17-036
HHS/National Institutes of Health
Clinic Testing Therapeutic/Indication Pairing Strategies (U01 Clinical Trial Required)
Funding Opportunity Number: PAR-18-332
Letter of Intent Deadline: 1/5/2018
Application Deadline: 2/5/2018
Estimated Maximum Total Value: Unspecified
Maximum Annual Direct Costs Per Award: $3,000,000, for three years
Expected Number of Awards: Unspecified

Summary:
This opportunity supports clinical studies to repurpose existing drugs or biologics (therapeutics) that have already completed at least a Phase I trial for a different indication by the time an award is made. The hypothesis for proposed studies must be developed using innovative processes to identify the therapeutic/indication pair. Projects should be supported by scientific evidence that modulation of a therapeutic target will have a positive impact on the disease/condition. The U01 award may be used for Phase I and/or Phase II clinical trials for a new therapeutic use to establish substantial evidence of efficacy and to establish evidence of safety for the new use.

Link: PAR-18-332

HHS/National Institutes of Health
NHLBI Program Project Applications (P01 - Clinical Trials Optional)
Funding Opportunity Number: PAR-18-405
Letter of Intent Deadline: 11/25/2017
Application Deadline: 1/25/2018
Estimated Maximum Total Value: Unspecified
Maximum Annual Direct Costs Per Award: $1,515,000, for five years
Expected Number of Awards: Unspecified

Summary:
This opportunity requires a minimum of three interrelated research projects that investigate a complex biomedical theme or research question. The projects may be supported by core units, to facilitate economy of effort, space, and equipment. NHLBI is particularly interested in encouraging new scientific directions in PPGs. Use of the P01 activity code is viewed as an opportunity to attract scientists who have not traditionally been supported by the NHLBI. The PPG environment presents an opportunity for emerging scientific leaders to gain insight into how to lead a successful scientific Program. All projects in the Program must be interrelated and have objectives that address a central theme within the scientific mandate of the NHLBI.

Link: PAR-18-405

HHS/National Institutes of Health
NCI National Clinical Trials Network (NCTN)--Network Lead Academic Participating Sites (UG1)
Funding Opportunity Number: RFA-CA-17-059
Letter of Intent Deadline: 12/19/2-17
Application Deadline: 1/19/2018
Estimated Maximum Total Value: $150,000,000
Maximum Annual Direct Costs Per Award: $1,500,000, for six years
Expected Number of Awards: 30 - 36

Summary:
The purpose is to solicit applications from institutions/organizations that propose to maintain or establish Network Lead Academic Participating Sites (LAPS) for the NCI National Clinical Trials Network (NCTN). The NCTN Network LAPS will provide scientific leadership by helping to develop and conduct clinical trials in association

Link: RFA-CA-17-059
with one or more adult Network Groups and will contribute substantial accrual to clinical trials conducted across the entire NCTN.

Link: [RFA-CA-17-059](#)

**HHS/National Institutes of Health**  
**Investigator-Initiated Clinical Trials Targeting Diseases within the Mission of NIDDK (R01-Clinical Trial Required)**  
Funding Opportunity Number: PA-18-330  
Application Deadline: 2/5/2018  
Estimated Maximum Total Value: Unspecified  
Maximum Annual Value Per Award: Unspecified, for five years  
Expected Number of Awards: Unspecified  
**Summary:**  
This opportunity invites applications for investigator-initiated clinical trials at no more than two clinical research centers. NIDDK is committed to improving the health of people with diabetes and other endocrine and metabolic diseases; digestive diseases, nutritional disorders, and obesity; and kidney, urologic and hematologic diseases. Applications should be hypothesis driven, have clearly described aims and objectives, and have a high likelihood that the trial findings will improve understanding, diagnosis, prevention or treatment of the diseases studied and have the potential to impact clinical practice and/or public health.

Link: [PA-18-330](#)

**HHS/National Institutes of Health**  
**Simulation Modeling and Systems Science to Address Health Disparities (R01-Clinical Trial Not Allowed)**  
Funding Opportunity Number: PAR-18-331  
Letter of Intent Deadline: 12/10/2017  
Application Deadline: 1/10/2018  
Estimated Maximum Total Value: Unspecified  
Maximum Annual Direct Costs Per Award: $250,000, for four years  
Expected Number of Awards: Unspecified  
**Summary:**  
The purpose of this Funding Opportunity Announcement (FOA) is to support investigative and collaborative research focused on developing and evaluating simulation modeling and systems science to understand and address minority health and health disparities.

Link: [PAR-18-331](#)

**HHS/Food and Drug Administration**  
**Building Research Capacity in Global Tobacco Product Regulation Program (U18)**  
Funding Opportunity Number: RFA-FD-18-003  
Application Deadline: 12/18/2017  
Estimated Maximum Total Value: $2,250,000  
Maximum Annual Value Per Award: $450,000, for five years  
Expected Number of Awards: 1  
**Summary:**  
This program will advance FDA’s Center for Tobacco Products’ (CTP’s) mission by utilizing the World Health Organization’s (WHO) Member States’ expertise and extensive international contacts in global tobacco control, as well as WHO’s own programmatic expertise, to inform and support adequate manufacture, distribution and market regulations of tobacco products for the protection of public health in the United States. The Program will provide a universal public benefit by creating opportunities for collaboration and research development globally, resulting in better-informed and effective tobacco product regulation around the world, and increased knowledge in the public sphere regarding tobacco use and its harms.

Link: [RFA-FD-18-003](#)
Department of Defense/Dept. of the Army -- USAMRAA
DoD Congressionally Directed Medical Research Programs PHTBI Applied Behavior Analysis Clinical Study Award
Funding Opportunity Number: W81XWH-17-PHTBI-ABACSA
Pre-application Submission Deadline: 11/30/2017
Application Deadline: 12/14/2017
Estimated Maximum Total Value: $7,000,000, for four years
Expected Number of Awards: 1
Summary:
The PH/TBIRP was established by Congress in FY07 in response to the devastating impact of traumatic brain injury (TBI) and psychological health (PH) issues, including post-traumatic stress disorder, on deployed Service members in Iraq and Afghanistan. The PH/TBIRP mission is to establish, fund, and integrate both individual and multi-agency research efforts that will lead to improved prevention, detection, and treatment of PH issues and TBI. The vision of the PH/TBIRP is to prevent, mitigate, and treat the effects of traumatic stress and TBI on function, wellness, and overall quality of life for Service members as well as their caregivers and families. The DHA leverages PH/TBIRP funding to complement DHP core research and development funding assigned to study PH and TBI.
Link: W81XWH-17-PHTBI-ABACSA

Department of Defense/Dept. of the Army -- USAMRAA
DoD Lupus, Impact Award
Funding Opportunity Number: W81XWH-17-LRP-IA
Pre-application Submission Deadline: 12/21/2017
Application Deadline: 1/4/2018
Estimated Maximum Total Value: $525,000 for three years
Expected Number of Awards: 1
Summary:
The LRP Impact Award, being offered for the first time in FY17, encourages applications that support the full spectrum of research projects or ideas that specifically focus on scientific and clinical lupus issues. Important aspects of the award: • Impact: The proposed research should impact an area of paramount importance in lupus disease. • Research Strategy: The scientific rationale and experimental methodology should demonstrate critical understanding and in-depth analysis of lupus. • Preliminary Data: Inclusion of preliminary data, such as unpublished data from the laboratory of the PI and/or data from published literature that are relevant to lupus and support the proposed research project is encouraged. • Focus Areas: The proposed research must address at least one of the FY17 LRP Focus Areas.
Link: W81XWH-17-LRP-IA

Related:
Title: DoD Lupus, Concept Award
Link: W81XWH-17-LRP-CA

International
U.S. Agency for International Development/Democratic Republic of the Congo USAID
Kinshasa Integrated Youth Development Activity
Funding Opportunity Number: 72066018RFA00001
Application Deadline: 1/4/2018
Estimated Maximum Total Value: $22,150,000 for three years
Expected Number of Awards: 1
Summary:
Applications are sought that will increase youth resilience to conflict and violence in eastern DRC. This activity will include Higher Education funding, Economic Growth funding, Family Planning funding, and Democracy, Human Rights and Governance funding for civic education, citizen participation and public accountability. USAID intends to fund the successful Applicant whose activity provides youth in eastern DRC with access to basic education combined with opportunities to develop and exercise skills that allow them to positively engage in economic, social and political life in their communities.

Link: [72066018RFA00001](#)

U.S. Agency for International Development/Serbia USAID-Belgrade

Overview of Anticipated Civil Society Programming
Funding Opportunity Number: 72016918RFA00001
Application Deadline: 4/30/2018
Estimated Maximum Total Value: $12,000,000
Maximum Annual Value Per Award: $2,000,000
Expected Number of Awards: 6
Summary:
The purpose of the USAID Serbia Civil Society Programming is to strengthen locally-led efforts to further democratic and economic reform processes in Serbia. The activities will seek to increase cooperation between citizens, civil society actors, the private sector, and the government in ways that can enhance the effectiveness and inclusiveness of reform efforts. These programs will focus on civic engagement, the involvement of citizens in guiding public policy, and improving the quality of life in their communities and their country.

Link: [72016918RFA00001](#)

Department of State/U.S. Mission to Japan
Small Grants Program
Funding Opportunity Number: PAS-FUKUOKA-FY2018-0001
Rolling Application Deadline: 6/30/2018
Estimated Maximum Total Value: $3,000
Maximum Total Value Per Award: $1,000
Expected Number of Awards: 3
Summary:
The U.S. Consulate Fukuoka Public Affairs Section is making funding available through its Public Diplomacy Small Grants Program. This annual notice outlines funding priorities and areas of interest, as well as procedures for submitting requests for funding.

Link: [PAS-FUKUOKA-FY2018-0001](#)

NOTICES

Office of the Director of National Intelligence/Intelligence Advanced Research Projects Activity
Proposers' Day Notification for SuperCables
On November 7, 2017 in anticipation of the release of a new solicitation.
Solicitation Number: IARPA-BAA-18-02
The goal of SuperCables will be to develop technologies that will enable energy-efficient high-data-rate interconnect between a superconducting data processor at 4 kelvins and a room temperature control system. The SuperCables program is primarily interested in components for the data egress system. A possible later program will also consider data ingress, and will integrate components into a complete data transmission system.
Register no later 5PM EST on October 31, 2017, at [https://eventmanagement.cvent.com/SuperCablesPD](https://eventmanagement.cvent.com/SuperCablesPD)
Dear Colleague Letter: Joint NSF/ENG and AFOSR Funding Opportunity: Supporting Fundamental Research in the Quantitative Representation of Microstructures (QRM)

This letter serves as a call for proposals to address fundamental scientific questions related to Materials microstructure, properties and performance through the development of tools for the Quantitative Representation of Microstructures. NSF's and AFOSR's interest lies in innovative research projects which bring together members of the Materials Science and Engineering community with experts in computation and visualization, to address the challenges associated with accurate quantification and representation of the microstructures of Engineering Materials.

Proposals should address:

1. Fundamental scientific questions related to Materials Processing-Microstructure-Property relationships that can be addressed through experimental and computational approaches enabled by the Quantitative Representation of Microstructures
2. A multidisciplinary approach to developing the tools for accurate microstructure representation, to include (1) data collection tools (2) data processing and feature identification algorithms (3) morphological descriptive metrics (4) virtual structure generators or renderers and (5) structural and/or functional material performance metrics
3. Efforts to identify and quantify sources of uncertainty in the microstructure representations
4. Planned open access to the data and codes generated in the proposed work


NSF challenges interdisciplinary science and engineering teams to produce plans for developing forward-looking, highly adaptable, distributed digital environments that can personalize learning for individual, diverse learners in collaborative settings with potential applications across multiple and varying: (a) domains of knowledge, (b) learning contexts (including formal and informal education), and (c) time spans.

Next-generation learning architectures should significantly surpass: (a) learning management systems (LMS) or massively open online courses (MOOCs) that primarily organize, coordinate, and deliver resources (e.g., syllabi, video clips, quizzes); (b) intelligent tutoring systems (ITS) and related activities that narrowly scope learning tasks; and (c) non-adaptive education environments in general.

NSF seeks ideas for rich and highly adaptable environments for learners that may: (a) serve as a forum for active research and development studies by researchers; (b) serve as a testbed for analytics that support the environment's adaptability; and (c) in the spirit of design-based research, serve as a collaborative space for teachers, mentors, and learners to work with researchers as co-developers of the learning environment.

NSF encourages the engagement of a range of disciplines, such as education research, cognitive science, the learning sciences, the science of team science, linguistics, computer science, information science, computational science, mathematics, and statistics.

Frequently Asked Questions (FAQs) for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs