CALIFORNIA INITIATIVE TO ADVANCE PRECISION MEDICINE

Pursuant to the FY 2016-17 California state budget passed by the Legislature and expected to be signed by the Governor, it is anticipated that the California Initiative to Advance Precision Medicine (CIAPM) will receive an additional $10 million of funding. CIAPM is therefore planning to release a Request for Proposals (RFP) to select 6 proof-of-principal Demonstration Projects for support. These projects will engage in broad collaborations between private, academic, non-profit and patient organizations to advance precision medicine in California. Applicants to the RFP will have the opportunity to attend a CIAPM convening on August 26, 2016 in Los Angeles. This convening will provide an opportunity to help strengthen and build partnerships for the proposals, prior to final evaluation by the awards selection committee.

URL: http://www.ciapm.org/public-comment-request-proposals-and-selection-committee-nominations

DOD PROOF OF CONCEPT COMMERCIALIZATION PILOT PROGRAM

This program is designed to help researchers who want to commercialize their successful research efforts, and is open to current and former (last 5 years) DoD basic research grantees. The program provides up to $70K for 12 months for a three person team (PI, Entrepreneurial Lead, and Mentor) to get training and support to start a company to commercialize a previously funded research effort. The Entrepreneurial Lead is intended to be a Post-Doc or Graduate Student who wants to take the lead on commercializing the research and the Mentor can be either someone you know who meets the criteria or someone assigned through the NSF I-Corps Mentor Network.

URL: http://www.grants.gov/web/grants/view-opportunity.html?oppId=283584

NEH SUMMER STIPENDS 2017

The Interdisciplinary Humanities Center is now accepting applications from UCSB faculty members for the National Endowment for the Humanities (NEH) 2017 Summer Stipend program. To be considered for a Summer Stipend, faculty members must submit all application materials by Wednesday, August 17, 2016. This is a limited submission funding opportunity. Members of the IHC’s Advisory Board will recommend nominees for this award. As a campus UCSB may submit only two applications. NEH Summer Stipends support individuals working full-time on a humanities project at any stage of development by providing $6,000 for two consecutive months of full-time research and writing.

URL: http://www.ihc.ucsb.edu/neh-summer-stipends-

IHC Deadline: August 17, 2016

NSF DEAR COLLEAGUE LETTERS

The National Science Foundation often releases Dear Colleague letters to solicit proposals related to particular areas of high funding priority for the agency. Below are some recently released announcements relevant to UCSB Researchers.

Dear Colleague Letter: Supporting Research Advances in Microbiomes
With this Dear Colleague Letter (DCL), the National Science Foundation’s (NSF) Directorate for Biological Sciences is announcing its vision to support and encourage microbiome research across the phylogenetic spectrum and biological scales; from host-microbe interactions to ecosystems. NSF BIO encourages proposals that advance discovery in the realm of microbiomes with support through several programs in fiscal year 2017. These programs cross the entire BIO Directorate and span basic science through translational research that addresses pressing global challenges and support the development of tools needed for the 21st century.

Dear Colleague Letter: Reproducibility and Robustness of Results
This Dear Colleague Letter is to reaffirm that we continue to welcome proposals related to enhancing the validity of the data and outcomes of research in all GEO programs. Examples of community approaches include: 1) formal and informal intercomparisons of analytical techniques, instrumentation, and numerical models, 2) assessment and development of best practices, and 3) implementation of new data management policies and investments in cyberinfrastructure to make metadata and data available for critical examination and use throughout the scientific community. GEO also recognizes that educational activities that develop and promote scientific ethics, critical thinking and best practices in scientific research are also central to the continuous improvement of science and can be considered in the context of broader impacts.

Dear Colleague Letter: Seeking Community Input on Advanced Cyberinfrastructure
NSF is conducting a review of ACI’s position within NSF, now that there exist several years of experience operating in this new configuration; this review is meant to be forward-looking and data-driven. Input from the science and engineering research community is an important component of this review process. To inform any comments, we provide relevant data on proposals, awards, and budgets for the period spanning fiscal years (FY) 2011-2015, which covers OCI as well as ACI operations: https://www.nsf.gov/od/aci-review-data.jsp.

Dear Colleague Letter: Strengthening Transfer of Students from Two-year Hispanic-serving Institutions to Four-year STEM Programs
NSF is interested in receiving proposals to existing programs that support the development of a comprehensive, knowledge-based and knowledge-generating opportunity that seeks to facilitate the successful transfer of students (particularly those who are historically underrepresented in STEM) from two-year Hispanic-serving Institutions (HSIs) to four-year institutions of their choice in order to pursue STEM baccalaureate degrees. This is not a special competition or new program. Proposals submitted in response to this Dear Colleague Letter (DCL) must meet the requirements and deadlines of the program to which they are submitted. Two-year HSIs are particularly encouraged to submit proposals in response to this DCL. All four-year institutions are eligible to submit proposals; however, four-year institutions are strongly encouraged to partner with a two-year HSI.

Dear Colleague Letter: FY 2017 Sustainable Chemistry, Engineering, and Materials (SusChEM) Funding Opportunity
In fiscal year (FY) 2013, NSF started an initiative to encourage and foster research in Sustainable Chemistry, Engineering, and Materials (SusChEM), partially in response to the mandate of the America COMPETES Reauthorization Act of 2010. The SusChEM initiative addresses the interrelated challenges of sustainable supply, engineering, production, and use of chemicals and materials. In FY 2017, the participating divisions are Chemistry...
Examples of fundamental research topics of interest in SusChEM include the replacement of rare, expensive, and/or toxic chemicals/materials with earth-abundant, inexpensive, and benign chemicals/materials; recycling of chemicals/materials that cannot be replaced; development of non-petroleum based sources of important raw materials; elimination of waste products and enhancements in efficiencies of chemical reactions and processes; discovery of new separation science that will facilitate recycling and production of valuable chemicals/materials; and development and characterization of low cost, sustainable, and scalably-manufactured materials with improved properties.

Dear Colleague Letter: Special Guidelines for Submitting Collaborative Proposals under the Division of Chemical, Bioengineering, Environmental, and Transport Systems-Engineering and Physical Sciences Research Council UK (CBET-EPSRC) Lead Agency Activity
The Directorate for Engineering (ENG), Division of Chemical, Bioengineering, Environmental and Transport Systems (CBET) of the National Science Foundation and the Engineering and Physical Sciences Research Council UK (EPSRC) are pleased to announce the CBET-EPSRC Lead Agency Activity under a NSF/RCUK Research Cooperation Memorandum of Understanding (MoU). The goal of this activity is to reduce some of the barriers that researchers currently encounter when working internationally. The CBET-EPSRC Lead Agency Activity will allow US and UK researchers to submit a single collaborative proposal that will undergo a single review process. Proposals will be accepted for collaborative research in areas at the intersection of CBET and the EPSRC’s Engineering Theme’s missions. Proposers should review the CBET Program Descriptions for research supported through CBET and the EPSRC Engineering Theme for further information on what areas of research are eligible for support through this activity. Proposals are expected to adhere to typical proposal budgets and durations for the relevant CBET and EPSRC program from which funding is sought. This document provides guidelines for the preparation, submission, review, and award of CBET-EPSRC Collaborative Proposals.

Dear Colleague Letter: NSF/NSFC Joint Research on Environmental Sustainability Challenges
The NSF Engineering Directorate (ENG) and the National Natural Science Foundation of China (NSFC) Department of Engineering and Material Sciences (DEMS) are partnering to encourage joint research by U.S. - China teams collaborating on fundamental research that addresses critical environmental sustainability challenges. This call is for research proposals from joint U.S. - China teams in two environmental sustainability topic areas:
  Topic 1. Combustion Related to Sustainable Energy
  Topic 2. Urban Water Sustainability

LIMITED SUBMISSION DEADLINES
The Office of Research administers the campus selection process for most limited submission competitions. These programs restrict the number of applications, nominations, or proposals that an institution can submit to an agency and require that the campus screen pre-proposals or nominations to determine which will go forward to the sponsor. They are typically due to the Office of Research two months prior to the agency deadline. If fewer submissions than the eligible number are received for the campus deadline, approval to apply may be granted on a first come first served basis. More information about the programs and campus procedures can be found at...

Programs with upcoming campus deadlines include:
• NIH Bridges to the Doctorate—Campus Notice of Intent (required 6/30/2016; Application 9/25/2016)

Programs with open campus spots (please contact funding@research.ucsb.edu if you are interested in submitting to one of these programs):
• William T. Grant Scholars Program—Full Proposal 7/6/2016
• NIH Diabetes Research Centers (P30)—Letter of Intent 5/14/2016; Full Application 6/14/2016
• NEA Research Labs—Full Proposal 7/12/2016
• Burroughs Wellcome Fund Investigators in the Pathogenesis of Infectious Disease—Pre-Proposal 7/15/2016; Full Proposal 10/1/2016
• DoED Pathways to the Education Sciences Research Training Program FY17—Full Proposal 10/1/2016
• NSF Advancing Digitization of Biodiversity Collections (ADBC)—Full Proposal 10/14/2016
• NSF Alliances for Graduate Education and the Professoriate (AGEP)—Full Proposal 12/9/2016
Amar, P.E. (Global and International Studies), Sakr, L. (Film Studies), Institute for Social, Behavioral, & Economic Research, $25,000, Open Society Institute, “Freedom of Assembly in Civic Space: After Tahrir: Dissent Experiences and Future Visions in Egypt and Beyond.”

Archuleta, R.J. (Earth Science), Simms, A. (Earth Science), Earth Research Institute, $12,000, University of Southern California, “SC4 Participation, Project T: Testing Model Predictions of Large Tsunamis Associated with Great Earthquakes on the Pitas Point Thrust using Ground-Penetrating Radar.”

Billeci Hajda, C., Arts & Lectures, $25,000, National Endowment for the Arts, “Inventive Performances and Practices.”


Bowers, M.T. (Chemistry & Biochemistry), Institute for Terahertz Science & Technology, $480,000, National Science Foundation, “Amino Acid and Peptide Assembly: Mechanism and Structures.”

Brown, M. (Anthropology), Institute for Social, Behavioral, & Economic Research, $5,000, American Association of Physical Anthropologists, “Measuring the Effects of Feeding Competition at Multiple Scales in a Frugivorous Primate Community.”

Carvalho, L. (Geography), Earth Research Institute, $70,784, Rutgers University, “The precipitation response to ENSO over Tropical South America: spatial and temporal heterogeneity and the role of the land surface.”

Cooper, S.D. (Ecology, Evolution & Marine Biology), Marine Science Institute, $123,500, USDA Forest Service, “Evaluating the status of South Central and Southern California Steelhead populations and stream habitat conditions on the LPNF through data acquisition and analysis.”

Costello, C.J. (Donald Bren School of Environmental Science & Management), Marine Science Institute, $39,000, Nature Conservancy, “TASK 7: A decision Support Tool to analyze the socio-economic performance of management scenarios in the Peruvian Anchoveta Fishery.”


Feinstein, S.C. (Molecular, Cellular & Developmental Biology), Wilson, L. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, $326,264, Genentech, Inc., “Mechanism of Action of MMAE as a Free Drug and an Antibody Drug Conjugate.”


Jayich, A. (Physics), California Nanosystems Institute, $95,922, UC Berkeley, “UC Network of Sensors for Exotic physics (UC NOSE).”

Jones, M., National Center for Ecological Analysis and Synthesis, $500,000, University of Illinois, “CC*DNI DIBBS: Merging Science and Cyberinfrastructure Pathways: The Whole Tale.”

Kosik, K.S. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, $19,000, American Federation-Aging Research, “Identification of novel molecular programs that mediate selective neuronal injury in Alzheimer’s Disease and subcortical white matter injury.”


Love, M.S., Marine Science Institute, $150,000, California Artificial Reef Enhancement (Care), “Fish surveys around California oil and gas platforms preparatory to the decommissioning process.”
Matoza, R.S. (Earth Science), Earth Research Institute, $261,778, National Science Foundation, “Collaborative Research: Quantifying explosive volcanism in Alaska using seismo-acoustic wavefields recorded by USArray.”

Meiburg, E.H., Mechanical Engineering, $12,500, National Science Foundation, “Travel Support for U.S. Participants Attending the 8th International Symposium on Stratified Flows (ISSF).”

Millett, K.C., Mathematics, $34,000, National Science Foundation, “USA Graduate Student/Recent PhD Travel Support for the conference Knots, Low-Dimensional Topology and Applications (Knots in Hellas 2016).”

Morse, D.E. (Molecular, Cellular & Developmental Biology), Institute for Collaborative Biotechnologies, $1,173,000, Department of Energy, “Reflectin: Protein Driver of Dynamically Tunable Biophotonics; New Paradigm for Tunably Reconfigurable Materials.”


Seshadri, R. (Materials), Wilson, S.D. (Materials), Materials Research Laboratory, $150,000, UC Berkeley, “Earth-Abundant Magnetocalorics for Ambient-Temperature Refrigeration.”

Seubert, D.C., Brylawski, S.S., Davidson Library, $300,000, Packard Humanities Institute, “American Discography Project.”

Speck, J.S., Denbaars, S.P., Materials, $1,000,001, DOE Chicago Field Office, “Identification and Mitigation of Droop Mechanism in GaN-Based LEDs.”


Turner, K.L., Mechanical Engineering, $300,000, National Science Foundation, “Collaborative Research: Improving Capabilities of Micro-scale Vibratory Systems by Embracing and Accounting for Large-Amplitude Responses.”


Young, A. (Physics), California Nanosystems Institute, $413,576, DAF Office of Scientific Research, “Scanning Magnetometry of Low Dimensional Electronic Systems.”

Young, A. (Physics), California Nanosystems Institute, $105,430, National Science Foundation, “EAGER: Layer Resolved Capacitance in Graphene Bilayers.”
Helpful Hints

• Program announcements are organized by funding agency and then by deadline.
• Limited submission programs restrict the number of applications, nominations, or proposals an institution can submit to an agency. These programs require that the campus screen pre-proposals or nominations to determine which will go forward to the sponsor and are typically due to the Office of Research two months prior to the agency deadline. If you are interested in applying, please email: funding@research.ucsb.edu well in advance of the deadline. A list is available on our website at: http://www.research.ucsb.edu/funding/LimitedSubmission.aspx
• In order to provide a full and complete review, Sponsored Projects in the Office of Research must receive proposals at least four full working days prior to funding agency deadlines.

Department of Agriculture (USDA)

7/14/2016 Letter of Intent (CAP)
9/22/2016 Application (CAP)
7/14/2016 Application (EDUC)

Sustainable Bioenergy and Biproducts Challenge Area
Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA)
Contact: Daniel Cassidy, dcassidy@nifa.usda.gov
Solicitation number:
NIFA requests applications for the Agriculture and Food Research Initiative Sustainable Bioenergy and Bioproducts (SBEBP) Challenge Area Program for fiscal year (FY) 2016. In the SBEBP Challenge Area, specific program areas are designed to achieve the long term outcome of reducing the national dependence on foreign oil through the development and production of regionally-appropriate sustainable bioenergy systems that materially deliver advanced liquid transportation biofuels, biopower, and bioproducts. For FY2016, SBEBP is soliciting applications in the following priority areas: 1) Regional Bioenergy Coordinated Agricultural Projects (CAPs) that focus on the production and delivery of regionally-appropriate sustainable biomass feedstocks for bioenergy and bioproducts. While the focus of CAPs will be on feedstocks, competitive proposals must present the feedstock development and production in the context of a comprehensive regional sustainable bioenergy and bioproducts supply chain systems. CAP Grants must not exceed $3 million per year, including indirect costs, for project periods of up to 5 years. 2) Investing in America’s Scientific Corps: Preparing a New Generation of Students, Faculty, and Workforce for Emerging Challenges in Bioenergy, Bioproducts, and the Bioeconomy. Education projects will not exceed $3 million total, including indirect costs, for project periods of up to 4 years.

Department of Defense (DOD)

Ongoing

Research Interests of the Air Force of Scientific Research
Air Force Research Laboratory
http://www.grants.gov/web/grants/view-opportunity.html?oppId=276388
Contact: Varies with research interest
Solicitation number: BAA-AFRL-AFOSR-2015-0001
AFOSR plans, coordinates, and executes the Air Force Research Laboratory’s (AFRL) basic research program in response to technical guidance from AFRL and requirements of the Air Force. Additionally, the office fosters, supports, and conducts research within Air Force, university, and industry laboratories; and ensures transition of research results to support U.S. Air Force needs.
The focus of AFOSR is on research areas that offer significant and comprehensive benefits to our national warfighting and peacekeeping capabilities. These areas are organized and managed in two scientific Departments: Engineering and Information Science (RTA) and Physical and Biological Sciences (RTB). Awards average $200-400K per year and may be proposed for up to five years. Proposals may be submitted at any time, though it is recommended to contact the appropriate program manager prior to submission. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
**AFRL Research Collaboration Program**

Department of Defense (DoD)


Contact: Angela Campbell, 937/656-7736, Angela.Campbell@wpafb.af.mil

Solicitation number: BAA-RQKM-2013-0005

The objective of the AFRL Research Collaboration program is to enable collaborative research partnerships between AFRL and Academia and Industry in areas including but not limited to Materials and Manufacturing and Aerospace Sensors that engage a diverse pool of domestic businesses that employ scientists and engineers in technical areas required to develop critical warfighting technologies for the nation’s air, space and cyberspace forces through specific AFRL Core Technical Competencies (CTCs). This objective will be met by awarding contracts/assistance instruments that provide a broad range of highly unique evolutionary and revolutionary technology advances in nine competency areas: Structural Materials and Applications, Functional Materials and Applications, Support for Operations, Manufacturing Technology, Radio Frequency (RF) Sensing, Electro-Optical Sensing, Spectrum Warfare, Layered Sensing Exploitation and Enabling Sensor Devices/Components. Individual awards are anticipated to be in the range of $100K to $750K per contract. Each award is not anticipated to exceed 48 months.

---

**Research Interests of the Air Force Office of Scientific Research**

Air Force Research Laboratory


Contact: Varies with research interest

Solicitation number: BAA-AFRL-AFOSR-2015-0001

AFOSR solicits white papers and proposals for basic research through this general Broad Agency Announcement (BAA). The focus of AFOSR is on research areas that offer significant and comprehensive benefits to our national warfighting and peacekeeping capabilities. These areas are organized and managed in five scientific Departments: 1) Dynamical Systems and Control (RTA); 2) Quantum and Non-Equilibrium Processes (RTB); 3) Information, Decision and Complex Networks (RTC); 4) Complex Materials and Devices (RTD); and 5) Energy, Power and Propulsion (RTE).

---

**Behavioral and Social Sciences Broad Agency Announcement for Basic, Applied, and Advanced Scientific Research**

U.S. Army Research Office

[http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=219293](http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=219293)

Contact: Varies with research interest

Solicitation number: W911NF-13-R-0001

The U.S. Army Research Institute for the Behavioral and Social Sciences is the Army’s lead agency for the conduct of research, development, and analyses for the improvement of Army readiness and performance via research advances and applications of the behavioral and social sciences that address personnel, organization, training, and leader development issues. This FOA is divided into two sections: 1) Basic Research and 2) Applied Research and Advanced Technology Development. Basic Research is defined as systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific application of processes or products in mind. The Applied Research and Advanced Technology Development Section is divided into four subsections: 1) Training; 2) Leader Development; 3) Team and Inter-Organizational Performance in Complex Environments; and 4) Soldier/Personnel Issues.

---

**AFRL RD/RV University Cooperative Agreement**

Department of Defense (DoD)


Contact:

Solicitation number: BAA-RVKV-2015-0003

This is a 5 year, open BAA. The AFRL Directed Energy Directorate (RD) and Space Vehicles Directorate (RV) are interested in receiving proposals under this announcement in order to establish university Cooperative Agreements (CA) to provide funds to students/professors in a timely manner for the purpose of engaging U.S./U.S. territories’ colleges and universities in directed energy and space vehicles-related basic, applied, and advanced research projects that are of interest to the Department of Defense (DoD). The scope of the research will include the entire spectrum of RD and RV technology that is applicable to the Air Force, including all peripherally-related RD and RV research.
6/23/2016  Full Proposal

**Accelerated Computation for Efficient Scientific Simulation (ACCESS)**

Defense Advanced Research Projects Agency (DARPA)

[https://www.fbo.gov/index?s=opportunity&mode=form&id=56f0272c172cbea36c727bd7b72c186b&tab=core&_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=56f0272c172cbea36c727bd7b72c186b&tab=core&_cview=0)

Contact: ACCESS@darpa.mil

Solicitation number: DARPA-BAA-16-38

DARPA is soliciting research proposals in technologies for the acceleration of scientific simulations of physical systems characterized by coupled partial differential equations (PDEs). The Accelerated Computation for Efficient Scientific Simulation (ACCESS) Program seeks innovative ideas for computational architectures that will achieve the equivalent of petaflops performance in a benchtop form-factor and be capable of what traditional architectures would define as "strong" scaling for predictive scientific simulations of interest. DARPA expects achieving these goals will require the parallel development of non-traditional component technologies exploiting novel hybrid analog/digital techniques, algorithms, instruction sets, controllers, and the integration and optimization of these components within prototype systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. The level of funding for individual awards made under this solicitation has not been predetermined and will depend on the quality of the proposals received and the availability of funds, but is not anticipated to exceed $1M for any individual award.

---

7/21/2016  Full Proposal

**DOD Science, Technology, Engineering & Mathematics Outreach - Limited Submission**

Department of Defense (DoD)


Contact: Olivia Epps, 719/333-3907, Olivia.Epps@us.af.mil

Solicitation number: USAFA-FOA-2016-2

The objective of this FOA is to invite white papers and, after receipt of an RFP, proposals that can assist the Air Force in supporting the DoD STEM education and outreach goals and strategies. The OSD STEM Office seeks to execute a program that effectively implements critical elements of DoD's Science and Technology strategy. Education and outreach activities will support and help sustain the nation's future STEM capabilities and readiness. The Air Force anticipates one award with a one-year basic period and three optional funding periods as a result of this announcement. The maximum award is $9.9M.

Activities under such a program may include:

1. Develop and execute various STEM program activities, such as virtual competitions, challenges, and other K-16 (to include undergraduate students) activities that align with the DoD K-16 STEM education and outreach goals and strategies. These programs may include teacher professional development and student-focused programs in the formal and informal domains. Formal programs provide curriculum-based content and activities while informal programs provide after-school and summer enrichment.

2. Effectively promote the K-16 STEM education and outreach efforts to encourage maximum participation. This may be accomplished by encouraging and developing effective, collaborative partnerships between the DoD and education and outreach organizations, professional societies, local education agencies, and state education agencies that can benefit from the STEM education and outreach activities described above. Additionally, this may be accomplished by convening a series of regional and national community dialogues through conferences or planning workshops, in order to confront the education and outreach issues that face our community. Lastly, effective outreach efforts may include approaches such as website usage and social media platforms. In the case of web based content/platforms the applicant shall design, develop, maintain, and host media platform(s) as required to achieve the objectives. All web content shall be subject to government approval.

3. Develop metrics and corresponding analysis methodologies to assess the effectiveness of student learning modules and other educational STEM activities, including authentic STEM experiences. Develop a plan to employ assessment methods, tailored to each individual type of STEM activity, to enable continuous improvement and further development of future STEM activities. These assessments may include but not necessarily be limited to; formative assessments, metrics used and measures of effectiveness; success stories; impact, and overall educational outcomes. Provide and ensure independent evaluations are conducted for each education and outreach program or activity. In order to permit the best public access the assessment and evaluation must include a review of each individual activity along with the “roll-up” evaluation of the combined education and outreach program for the respective reporting period. These analysis methodologies may include tracking student participation in DoD education and outreach activities to identify long-term impact and pathway that leads to higher education opportunities and/or STEM career opportunities supported by the DoD.
TRAnsformative DESign (TRADES)

DARPA is soliciting innovative ideas to transform design, enabling designs that are unimaginable today. DSO is specifically interested in fundamental research to develop new mathematics and algorithms that enable full incorporation of new materials and fabrication methods in design. Proposed research should investigate innovative approaches that enable revolutionary advances. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. The goal of the TRADES program is to advance the foundational mathematics and computational tools required to generate and better manage the enormous complexity of design.

Jan Vandenbrande, TRADES@darpa.mil

http://www.grants.gov/web/grants/view-opportunity.html?oppId=283730

Contact:

DARPA-BAA-16-39

Multidisciplinary Research Program of the University Research Initiative

The MURI program supports basic research in science and engineering at U.S. institutions of higher education that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest. MURI awards are $1M to $2.5M per year with a maximum potential project period of five years. Typical annual funding is in the $1.25M to $1.5M range, while funding for collaborative US / UK topics should be discussed with the topic chief.

White papers and full proposals addressing the following topics 1 through 8 should be submitted to the Army Research Office (ARO):
1. Emulating the Principles of Impulsive Biological Force Generation
2. Exploiting nitrogen vacancy diamonds for manipulation of biological transduction
3. Noncommutativity in Interdependent Multimodal Data Analysis
4. Multi-scale Response for Adaptive Chemical and Material Systems
5. New Regimes in Quantum Optics
6. Fractional Order Methods for Sharp Interface Flows
7. 2-Dimensional Organic Polymers
8. Network Science of Teams

White papers and full proposals addressing the following topics 9 through 13 should be submitted to the Air Force Office of Scientific Research (AFOSR):
10. Large Scale Nano-Architecture Formation
11. Membrane-Based Electronics: Foldable & Adaptable Integrated Circuits
12. Semantics and Structures for Higher-level Quantum Programming Languages
13. Strong Field Laser Matter Interactions at Mid-Infrared Wavelength

White papers and full proposals addressing the following topics 14 through 19 should be submitted to the Office of Naval Research (ONR):
14. Visual Commonsense for Scene Understanding
16. Role of the Host Microbiome on Behavior/Resilience in Response to Stressors
17. Metalloid Cluster Networks
18. Computational and Experimental Methods towards Understanding the Chemistry and Physics of Materials over 2000°C
19. Quantum Optomechanics
Defense University Research Instrumentation Program (DURIP)
Department of Defense (DoD)
Contact: Katie Wisecarver, 703/696-9544, durip@afosr.af.mil
Solicitation number: PA-AFRL-AFOSR-2016-0001

This announcement seeks proposals to purchase instrumentation in support of research in areas of interest to the DoD, including areas of research supported by the administering agencies. The research areas of interest to the administering agencies are available for reference on-line at the following addresses:

Army Research Office:
http://www.aro.army.mil/ (select “Broad Agency Announcements” in the “For the Researcher” section to see the most recent ARL or ARO Core Broad Agency Announcement for Basic and Applied Scientific Research.)

Office of Naval Research:
http://www.onr.navy.mil/ (select "Contracts and Grants" and then "Broad Agency Announcements" to see Long Range Broad Agency Announcement for Navy and Marine Corps Science and Technology)

Air Force Office of Scientific Research:

Grants will be for the purchase of research equipment costing $50K or more, which typically cannot be purchased within the budgets of single-investigator awards. With few exceptions an individual award may not exceed $1.5M in DoD funding.

Department of Education

8/4/2016 Application

Education Research Grants
Institute of Education Sciences
Contact: Varies with research interest
Solicitation number: CFD 84.305A

IES requests applications for research projects that will contribute to its education research programs in Reading and Writing; Mathematics and Science Education; Cognition and Student Learning; Social and Behavioral Context for Academic Learning; Education Technology; Effective Teachers and Effective Teaching; Improving Education Systems: Policies, Organization, Management, and Leadership; Postsecondary and Adult Education; Early Learning Programs and Policies; and English Learners. The project goals are: Exploration; Development and Innovation; Efficacy and Replication; Scale-up Evaluation; and Measurement. Applications must address a specific topic and goal. Award size and duration vary according to the goal addressed.

8/4/2016 Full Proposal

Pathways to the Education Sciences Research Training Program FY17 - Limited Submission
Department of Education, Institute of Education Sciences
http://ies.ed.gov/funding/ncer_rfias/training_pathways.asp
Contact: Katina Stapleton, 202-245-6566, Katina.Stapleton@ed.gov
Solicitation number:
The Pathways to the Education Sciences Research Training Program (Pathways Training Program) funds training programs at minority-serving institutions (MSIs) and institutions of higher education that partner with MSIs. These programs are open to all students and are designed to provide upper-level undergraduate students, recent graduates, and/or master’s students with education research experience and professional development in order to prepare these students to pursue doctoral study in the education sciences or in fields relevant to education research. The program places special emphasis on recruiting students from underrepresented groups, including racial/ethnic minorities, first-generation college students, economically disadvantaged students, veterans, and students with disabilities. The maximum award is approximately $1.2M over five years.

Department of the Interior (DOI)
National Fish Habitat Action Plan
Department of the Interior
http://www.grants.gov/web/grants/view-opportunity.html?oppId=280034
Contact: varies with research intent
Solicitation number: F16AS00029
This program provides technical and financial assistance to other federal agencies, states, local governments, Native American tribes, nongovernmental organizations, citizen groups, and landowners for the conservation and management of fish and wildlife resources. This includes minimizing the establishment, spread, and impact of aquatic invasive species. Specifically, aquatic habitat conservation projects under this program must protect, restore, and enhance fish and aquatic habitats, as outlined in the National Fish Habitat Action Plan (Action Plan). Funded projects may be carried out by Fish Habitat Partnerships (FHPs) recognized by the National Fish Habitat Board (Board) or the partners of Board recognized FHPs. Individual awards will range from approximately $1K to $300K. Applications are accepted on a rolling basis.

7/31/2016 Full Proposal
Recovery Implementation Fund FY2016
Department of the Interior
http://www.grants.gov/web/grants/view-opportunity.html?oppId=281338
Contact:
Solicitation number: F16AS00099
The U.S. Fish and Wildlife Service (FWS) Ecological Services Program provides Federal financial assistance on a competitive basis to states, other Federal agencies, landowners, educators, non-profit organizations, researchers and other potential partners to secure information about endangered, threatened or candidate species, to aid in the recovery of these species, to avert listing of species pursuant to the Endangered Species Act, and to help conserve the ecosystems upon which these species depend.

Both the FWS and National Marine Fisheries Service (NMFS), which is part of the Department of Commerce’s NOAA Fisheries office, are responsible for implementing the Endangered Species Act. The FWS is primarily responsible for managing terrestrial and freshwater species, while the NMFS is primarily responsible for managing oceanic species, including most marine mammals. We also share responsibilities for several species such as sea turtles. For example, we have responsibility for sea turtles when they are on land, and NMFS has responsibility for sea turtles when they are in the water.

The overall goal of this Recovery Implementation funding opportunity is based on cooperative relationships with states, non-profit organizations, private landowners and those interested in habitat restoration or undertaking endangered and threatened species research, surveys and monitoring, or educational outreach efforts. Work may be done via cooperative agreement, grant agreement, project grants, or direct payment for specified use.

This opportunity provides funds to accomplish high priority recovery tasks for high priority, FWS-managed, endangered and threatened species in the United States (based on our Species Recovery Priority System and Recovery Task Priority System), such that known threats to the species may be reduced or eliminated. Projects for NMFS-managed species are not included in this funding opportunity.

Institute of Peace
Ongoing
Priority Grant Competition
Institute of Peace
http://www.usip.org/grants-fellowships/priority-grant-competition
Contact: Varies with research interest
Solicitation number:
This competition supports nonprofit organizations working in or on Afghanistan, Colombia, Iran, Iraq, Nigeria, Pakistan, and Sudan. The competition supports innovative peacebuilding projects involving research, the identification of promising models and effective practices, the development of practitioner resources and tools, the development and delivery of education, training and dialogue programs, and the production of films, radio programs and other media. Institute gives priority to high-quality projects that are likely to generate findings that are accessible to policymakers and practitioners and that demonstrate promise of having a substantial impact.
Space Technology Research Institutes (STRI) - Limited Submission

National Aeronautics and Space Administration

https://www.fbo.gov/notices/1da1168bb868634d0b8104b014fb34dc

Contact: HQ-STMD-STRI@mail.nasa.gov

NASA is soliciting STRIs in the two technology areas: (1) Bio-Manufacturing for Deep Space Exploration; (2) Computationally Accelerated Materials Development for Ultra High Strength Lightweight Structures

ROSES 2016: Maturation of Instruments for Solar System Exploration

National Aeronautics and Space Administration


Contact: William Cook, 202/358-0976, william.b.cook@nasa.gov

Solicitation number: NNH16ZDA001N-MATISSE

The program supports the advanced development of spacecraft-based instruments that show promise for use in future planetary missions. The goal of the program is to develop and demonstrate planetary and astrobiology science instruments to the point where they may be proposed in response to future announcements of flight opportunity without additional extensive technology development (approximately technology readiness level [TRL] 6). The proposed instrument must address specific scientific objectives of likely future planetary science missions. The MatISSE Program seeks proposals for development activities leading to instrument systems in support of the Science Mission Directorate’s (SMD) Planetary Science Division. The objectives of the program are to develop new technologies that significantly improve instrument measurement capabilities for planetary science missions (such as Discovery, New Frontiers, Mars Exploration, and other planetary programs). The maximum duration of awards is 4 years.

ROSES 2016: Laboratory Analysis of Returned Samples

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={5E6B5B6C-BF9E-DDA9-B8EB-C037E821B698}

Contact: Jeffrey Grossman, 202/358-1218, HQ-LARS@mail.nasa.gov

Solicitation number: NNH16ZDA001N-LARS

The goal of the program is to maximize the science derived from planetary sample-return missions. Activities supported by LARS fall into two categories: (1) development of laboratory instrumentation and/or advanced techniques required for the analysis of returned samples; (2) direct analysis of samples already returned to Earth. The maximum duration of awards is 4 years.
ROSES 2016: Planetary Protection Research
National Aeronautics and Space Administration

Contact: Catherine Conley, 202/358-3912, HQ-PPR@mail.nasa.gov
Solicitation number: NNH16ZDA001N-PPR

Planetary protection involves preventing biological contamination on both outbound and sample return missions to other planetary bodies. Numerous areas of research in astrobiology/exobiology are improving our understanding of the potential for survival of Earth microbes in extraterrestrial environments, relevant to preventing contamination of other bodies by organisms carried on spacecraft. Research is required to improve NASA’s understanding of the potential for both forward and backward contamination, how to minimize it, and to set standards in these areas for spacecraft preparation and operating procedures. Improvements in technologies and methods for evaluating the potential for life in returned samples are also of interest. Many of these research areas derive directly from recent National Research Council (NRC) recommendations on planetary protection for solar system exploration missions (see http://planetaryprotection.nasa.gov/documents/ for online reports and a list of publications). The maximum duration of awards is 4 years.

6/30/2016 Proposal
ROSES 2016: Physical Oceanography
National Aeronautics and Space Administration

Contact: Eric Lindstrom, 202/358-4540, eric.j.lindstrom@nasa.gov
Solicitation number: NNH16ZDA001N-PO

This program supports basic research and analysis activities that enable development of NASA’s current and future physical oceanography satellite missions and the scientific interpretation of data from them. The primary centers of support for the Physical Oceanography program are the NASA Jet Propulsion Laboratory Earth Science Directorate and the external (non-NASA) scientific community. Two research themes are identified in the Physical Oceanography program and represent priority areas for proposals solicited through this announcement.: (1) Analysis and interpretation of the ocean circulation using satellite and in situ data. NASA will support modest proposals undertaking analysis of satellite altimetry, surface wind stress, and other relevant data in support of the U.S. CLIVAR Program; (2) Development of new remote sensing techniques for physical oceanography. NASA has successfully developed remote sensing techniques for ocean surface winds, sea level, sea A.8-2 surface temperature, and sea surface salinity. Each of these variables has a science team and dedicated research activity. NASA will support modest proposals that explore new concepts for remote sensing of interest to physical oceanography. This opportunity is NOT for technology or instrument development but for concept articulation and exploration. The maximum duration of awards is 3 years.

7/1/2016 Proposal
ROSES 2016: Atmospheric Composition: Upper Atmospheric Composition Observations
National Aeronautics and Space Administration

Contact: Kenneth Jucks, 202/358-0476, Kenneth.W.Jucks@nasa.gov
Solicitation number: NNH16ZDA001N-UACO

The principal area of research solicited through this section is for operational support of atmospheric field measurement systems that monitor trace gas composition in the stratosphere and tropical upper troposphere from the ground, aircraft, and balloons. These types of measurements include those associated with (i) the long term monitoring of ozone and ozone-and climate-related trace gases via remote sensing techniques, and (ii) support of key observational field missions designed to address chemical and dynamical processes that influence upper tropospheric and stratospheric composition. In this solicitation section, NASA is not seeking proposals for instrumentation designed to make atmospheric boundary layer measurements or measurements of cloud/aerosol radiative or microphysical properties. The maximum duration of awards is 4 years.
**ROSES 2016: Astrophysics Theory**
National Aeronautics and Space Administration  
Contact: Keith MacGregor, 202/358-2463, HQ-ATP@mail.nasa.gov  
Solicitation number: NN16ZDA001N-ATP  
This program supports efforts to develop the basic theory for NASA's space astrophysics programs. Proposals submitted for this program must both: (a) Be directly relevant to space astrophysics goals by facilitating the interpretation of data from space astrophysics missions or by leading to predictions that can be tested with space astrophysics observations; and (b) Consist predominantly of theoretical astrophysics studies or the development of theoretical astrophysics models. ATP proposals satisfying both of the above requirements may involve development of data analysis methods for astrophysics missions and may incidentally include actual data analysis as a test of the theory or the method. The maximum duration of awards is 4 years.

**7/15/2016  Proposal**

**ROSES 2016: Terrestrial Hydrology**
National Aeronautics and Space Administration  
Contact: Jared Entin, 202/358-0275, jared.k.entin@nasa.gov  
Solicitation number: NN16ZDA001N-THP  
The program 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. 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. The maximum duration of awards is 5 years.

**7/15/2016  Step-2 Proposal**

**ROSES 2016: Planetary Data Archiving, Restoration, and Tools**
National Aeronautics and Space Administration  
Contact: Sarah Noble, 202/358-2492, sarah.nobel-1@nasa.gov  
Solicitation number: NN16ZDA001N-PDART  
This program solicits proposals to generate higher-order data products, archive and restore data sets or products, create or consolidate reference databases, generate new reference information, digitize data, and develop or validate software tools. The objective of this Program Element is to increase the amount and quality of digital information and data products available for planetary science research and exploration, and to produce tools that would enable or enhance future scientific investigations. Although it is expected that a small amount of data analysis, interpretation, or modeling may be performed to validate any generated products, this Program Element does not accept proposals in which the main focus is hypothesis-based science. The maximum duration of awards is 3 years.
ROSES 2016: Heliophysics Technology and Instrument Development for Science
National Aeronautics and Space Administration
Contact: Dan Moses, 202/358-0558, dan.moses@nasa.gov
Solicitation number: NNH16ZDA001N-HTIDS
This program seeks to investigate key Heliophysics science questions through three separate subelements. These subelements are also established for the purpose of organizing the evaluation and peer review process: (1) Low-Cost Access to Space (LCAS): science and/or technology investigations that can be carried out with instruments flown on suborbital sounding rockets, stratospheric balloons, CubeSats, suborbital reusable launch vehicles, or other platforms, collectively referred to as Low-Cost Access to Space; (2) Instrument and Technology Development (ITD): state-of-the-art instrument technology development for instruments that may be proposed as candidate experiments for future space flight opportunities, called Instrument and Technology Development, which may be carried out in the laboratory and/or observatory; and (3) Laboratory Nuclear, Atomic, and Plasma Physics (LNAPP): laboratory research designated as enabling Laboratory Nuclear, Atomic, and Plasma Physics studies.

ROSES 2016: Heliophysics Data Environment Enhancements
National Aeronautics and Space Administration
Contact: Jeffrey Hayes, 202/358-0353, jhayes@nasa.gov
Solicitation number: NNH16ZDA001N-HDEE
The goal of the H-DEE program is to enable breakthrough research in Heliophysics by providing both a state of the art data environment necessary to maximize the scientific return of the NASA missions. The basic building blocks of the NASA Heliophysics Data Environment are well-documented, carefully calibrated, and easily used data products, typically the result of the reduction of numbers from spacecraft telemetry to the physical quantities that enter the equations we use to model space plasmas. Many such datasets were produced before the era of standard formats and inexpensive storage devices, and others have been served by recent missions in a variety of ways from specialized web sites. One aspect of this call solicits proposals to upgrade older datasets that are of continuing value (Data Upgrades) and to support the continued serving of data from recent missions in the context of groups that understand the data and can help with its use (Resident Archives). As NASA mission data become better documented and formatted in standard ways, the need for Resident Archives continues to decrease, although in cases where data use is still demonstrably high and the products are complex, there may still be utility in supporting these intermediate archives for some time before the data transition to a Final Archive.

ROSES 2016: Exobiology
National Aeronautics and Space Administration
Contact: Michael New, 202/358-1766, michael.h.new@nasa.gov
Solicitation number: NNH16ZDA001N-EXO
The goal of this program is to understand the origin, evolution, distribution, and future of life in the Universe. Research is centered on the origin and early evolution of life, the potential of life to adapt to different environments, and the implications for life elsewhere. This research is conducted in the context of NASA’s ongoing exploration of our stellar neighborhood and the identification of biosignatures for in situ and remote sensing applications. The areas of research emphases in this solicitation are as follows: Prebiotic Evolution, Early Evolution of Life and the Biosphere, Evolution of Advanced Life, Large scale environmental change and Macro-evolution, and Biosignatures and Life Elsewhere. The maximum duration of awards is 4 years.
ROSES 2016: Planetary Science and Technology Through Analog Research

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solid=lb0ee1f61-f9a7-ab2b-1695-acd354c484e0

Contact: Sarah Noble, 202/358-2492, sarah.noble-1@nasa.gov

Solicitation number: NNH16ZDA001N-PSTAR

PSTAR seeks science investigations designed to further planetary research in terrestrial extreme environments that may be analogous to those found on other planets, past or present. Of particular interest are investigations that increase our understanding of the limits of and constraints (or lack thereof) on life in extreme environments and lead to a better understanding of how to seek, identify, and characterize life and life-related chemistry that may exist or have existed on other solar system bodies. PSTAR seeks systems-level terrestrial field campaigns that are conducted with complete systems and in a manner that approximates operations during an actual planetary mission, providing an opportunity to understand the performance, capabilities, and efficiencies associated with the tested systems, while enabling human participants to gain operational experience with those systems in the field. PSTAR seeks the development and application of technologies that support science investigations, particularly those that enable remote searches for, and identification of, life and life-related chemistry in extreme environments (including lunar and planetary surfaces). The maximum duration of awards is 4 years.

ROSES 2016: Airborne Instrument Technology Transition

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solid=l8db9ec43-77ca-79aa-2b7f-81ec7359c0d

Contact: Barry Lefer, 202/358-3857, barry.lefer@nasa.gov

Solicitation number: NNH16ZDA001N-AITT

This announcement seeks to upgrade mature instruments developed under NASA’s Instrument Incubator Program (IIP Program element A.42), or by similar NASA or externally-supported (e.g., corporate, other Federal agency, internal institution funding) programs or activities. This opportunity provides for engineering activities leading to the integration of instruments to airborne platforms that will deploy them as part of organized airborne science campaigns which typically involve multiple instruments and/or platforms. The goal is to upgrade existing operating instruments to campaign-ready airborne configuration(s). No funding is available for research and development of new instrumentation. Management of the tasks selected in response to these Airborne Instrument Technology Transition calls is carried out in conjunction with the Earth Science Technology Office (ESTO), which has significant experience in management of technology-oriented tasks through programs such as the Instrument Incubator Program. The maximum duration of awards is 30 months.

ROSES 2016: Heliophysics Supporting Research

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solid=l7ac90ca-fdaf-dde4-ae6c-df5ab66c057

Contact: Arik Posner, 202/358-0727, arik.posner@nasa.gov

Solicitation number: NNH16ZDA001N-HSR

Heliophysics Supporting Research (SR) awards are research investigations of significant magnitude that employ a combination of scientific techniques. These must include an element of (a) theory, numerical simulation, or modeling, and an element of (b) data analysis and interpretation of NASA-spacecraft observations. Proposing teams must demonstrate the expertise necessary to cover the combination of techniques required. Awards are expected to be in the range of approximately $200K/year – $250K/year.
ROSES 2016: Interdisciplinary Science

National Aeronautics and Space Administration


Contact: Jake Kaye, 202/358-2559, Jack.A.Kaye@nasa.gov

Solicitation number: NNH16ZDA001N-IDS

Proposed research investigations will meet the following criteria: a) offer a fundamental advance to our understanding of the Earth system; b) be based on remote sensing data, especially satellite observations, but including suborbital sensors as appropriate; c) go beyond correlation of data sets and seek to understand the underlying causality of change through determination of the specific physical, chemical, and/or biological processes involved; d) be truly interdisciplinary in scope by involving traditionally disparate disciplines of the Earth sciences; and e) address at least one of the five specific themes listed this solicitation: (1) Understanding the Global Sources and Sinks of Methane; (2) Ecology at Land/Water Interfaces – Human and Environmental Interfaces; (3) Understanding the Linkages Among Fluvial and Solid Earth Hazards; (4) Life in a Moving Ocean; or (5) Partitioning of Carbon Between the Atmosphere and Biosphere. The results of these investigations will improve our capability for both prognostic predictions and retrospective simulations of the Earth system. They will also advance our understanding of the vulnerabilities in human and biogeophysical systems and their relationships to climate extremes, thresholds, and tipping points. Meeting these goals requires approaches that integrate the traditional disciplines of the Earth sciences, as well as innovative and complementary use of models and data. The maximum duration of awards is 3 years.

ROSES 2016: Studies with IceSat and CryoSat -2

National Aeronautics and Space Administration


Contact: Thomas Wagner, 202/358-4682, thomas.wagner@nasa.gov

Solicitation number: NNH16ZDA001N-ICESAT2

NASA solicits investigations to derive geophysical information from NASA’s Ice, Cloud, and land Elevation Satellite (ICESat) and the European Space Agency’s CryoSat-2, and link these records with the initial data stream from ICESat-2, scheduled for launch in FY 2018. These altimetry missions were optimized to characterize changes in the continental ice sheets of Antarctica and Greenland and the sea ice of the Arctic and Southern Oceans. The missions’ primary goals are to understand the contributions of polar ice to current and future sea level rise and the coupling of changes in polar sea ice cover to the Earth system. Investigations are encouraged that: (1) create long term, integrated records of change in the polar ice sheets; (2) characterize processes of change in polar ice, especially couplings to climate forcings and insight into physical processes that improves predictive models; and (3) as a lower priority, any other innovative investigations using ICESat and CryoSat-2 observations for Earth science research, such as studies of ecosystem structure and biomass, inland and ocean water heights, and clouds. The maximum duration of awards is 3 years.

ROSES 2016: Atmospheric Composition: Aura Science Team and Atmospheric Composition Modeling and Analysis

National Aeronautics and Space Administration


Contact: Kenneth Jucks, 202/358-0476, kenneth.w.jucks@nasa.gov

Solicitation number: NNH16ZDA001N-ACMAP

This solicitation seeks proposals for the analysis of satellite remote-sensing data of the Earth’s atmosphere, particularly those using data generated by the Earth Observing System (EOS) Aura satellite. Observations from Aura include those from the Microwave Limb Sounder (MLS), Ozone Monitoring Instrument (OMI), Tropospheric Emission Spectrometer (TES), and High Resolution Dynamics Limb Sounder (HIRDLS) that ceased operation in 2008. We are also encouraging proposals that combine data from Aura with data from other sensors within the “A-Train”, S-NPP orbit, or morning crossing constellations (particularly Aqua, Terra, CALIPSO, and CloudSat, S-NPP) or satellites or instruments from other space agencies (for example; SciSat/ACE, MetOp), ground based networks (e.g., but not limited to ozonesondes, NDACC, AGAGE, AERONET, and MPLNET), and NASA suborbital campaigns (e.g., but not limited to DISCOVER-AQ, ATTREX, CARVE, and SEAC4RS). These proposals should enable NASA research in the area of stratospheric and tropospheric chemistry, as well as improve the measurements of aerosols and trace gases, and determining the impacts of trace gases and aerosols on climate and air quality. Proposals should specifically address the use of the satellite data. The maximum duration of awards is 3 years.
ROSES 2016: Earth Science U.S. Participating Investigator

National Aeronautics and Space Administration


Contact: Richard Eckman, 202/358-2567, Richard.S.Eckman@nasa.gov

Solicitation number: NNH16ZDA001N-ESUSPI

NASA solicits proposals for U.S. Participating Investigator (USPI) investigations on a foreign space mission that address the Earth Science Research Program objectives listed in the NASA Science Plan. This solicitation is for Earth science investigations that address the science questions listed in the NASA Science Plan and that contribute and facilitate access to foreign space agencies' assets. A proposed investigation as a USPI on a foreign space mission may be as a Co Investigator (Co-I) for an instrument, experiment, or technology demonstration that is being built and flown by a sponsor agency other than NASA. The Co-I role can include, but is not limited to, instrument design, modeling, and simulation of the instrument's operation and measurement performance; calibration of the instrument; and/or development of innovative data analysis techniques. A USPI may also serve as a member of a foreign space mission science or engineering team and participate in science team activities such as mission planning, mission operations, data processing, data analysis, and data archiving. The maximum duration of awards is 5 years.

8/26/2016 Step-1 Proposal
9/30/2016 Step-2 Proposal

8/21/2016 ROSES 2016: Mars Data Analysis Program

National Aeronautics and Space Administration


Contact: Mitch Schulte, 202/358-2127, mitchell.d.schulte@nasa.gov

Solicitation number: NNH16ZDA001N-MDAP

The objective of this program is to enhance the scientific return from missions to Mars conducted by NASA and other space agencies. These include, but are not limited to, the following missions: Mars Pathfinder (MPF), Mars Global Surveyor (MGS), Mars Odyssey (MO), Mars Exploration Rovers (MERs), Mars Express (MEX), Mars Reconnaissance Orbiter (MRO), Phoenix (PHX), Mars Science Laboratory (MSL), and Mars Atmosphere and Volatile EvolutioN (MAVEN). Any proposal may incorporate the investigation of data from more than one mission. Additional information about these missions, as well as references containing preliminary science results, can be found on the Mars Exploration Program (MEP) homepage at: http://mars.jpl.nasa.gov/.

Investigations submitted to this program must demonstrate how the research to be undertaken will directly improve our understanding of open science questions at Mars relevant to current hypotheses. Tasks responsive to this call include 1) data analysis tasks, 2) non-data-analysis tasks that are necessary to analyze or interpret the data, and 3) non-data-analysis tasks that significantly enhance the use or facilitate the interpretation of mission data. These tasks may incorporate theory, modeling, laboratory studies, correlative analyses, and/or other research. Proposals that include non-data-analysis tasks to enhance the use or facilitate the interpretation of mission data must incorporate the results of such tasks in the analysis or interpretation of mission data to be responsive to this call. MDAP does not support field studies or the acquisition of new astronomical observations. The maximum duration of awards is 4 years.

8/26/2016 Step-1 Proposal
10/28/2016 Step-2 Proposal

8/21/2016 ROSES 2016: Lunar Data Analysis Program

National Aeronautics and Space Administration


Contact: Robert Fogel, 202/358-2289, rfogel@nasa.gov

Solicitation number: NNH16ZDA001N-LDAP

This program funds research on the analysis of recent lunar missions in order to enhance their scientific return. LDAP broadens scientific participation in the analysis of mission data sets and funds high-priority areas of research that support planning for future lunar missions. LDAP supports scientific investigations of the Moon using publicly available (released) data. An investigator may propose a study (e.g., scientific, landing site science, cartographic, topographic, geodetic research, etc.) based on analysis of lunar data collected by spacecraft at the Moon (listed above). Proposals may incorporate the analysis of data from more than one mission. Moreover, data analyses that require the use of older mission data sets (e.g., Apollo, Clementine) are allowable. The maximum duration of awards is 4 years.
**ROSES 2016: Applied Sciences - Water Resources**

National Aeronautics and Space Administration


Contact: Bradley Doorn, 202/358-2187, Bradley.Doorn@nasa.gov

Solicitation number: NNH16ZDA001N-WATER

This program solicits proposals that develop and demonstrate the integration of NASA Earth science data and models into water resource management applications and decision support tools that can be sustained by operational partners or stakeholders. Remote sensing data, in combination with hydrologic models, can provide important information that can be used to assist water resource managers working with a wide range of partners and stakeholders. In order to make the best decisions possible and develop strategies that enhance the security and sustainability of water supplies, water resource managers and their stakeholders need timely information on water quality and imbalances between water supply and demand. The specific goal of this solicitation is to advance the use of satellite observations to detect and mitigate threats to water security and sustainability with an emphasis on monitoring and management of 1) water quality and 2) agricultural water use. The maximum duration of awards is 3 years.

---

**National Endowment for the Arts (NEA)**

7/12/2016  Full Agency Proposal

**National Endowment for the Arts Research Labs - Limited Submission**

National Endowment for the Arts

[http://www.arts.gov/program-solicitation-national-endowment-for-the-arts-research-labs](http://www.arts.gov/program-solicitation-national-endowment-for-the-arts-research-labs)

Contact:

Solicitation number: NEAPS1602

This program seeks to support a series of transdisciplinary research partnerships, grounded in the social and behavioral sciences, to produce and report empirical insights about the arts for the benefit of arts and non-arts sectors alike. Each NEA Research Lab will define a research agenda, conduct a research program to implement that agenda, and prepare reports that will contribute substantively to a wider understanding of one of three areas of special interest to the National Endowment for the Arts: 1) The Arts, Health, and Social/Emotional Well-Being; 2) The Arts, Creativity, Cognition, and Learning; 3) The Arts, Entrepreneurship, and Innovation. Priority will be given to applications that propose quasi-experimental or experimental studies with theory-driven research questions and methodologies that will yield important information about the impact of the arts within the selected topic area. The maximum award is approximately $150k over 2 years, and requires a nonfederal match of at least 1 to 1.

---

7/14/2016  Second Art Works Deadline

**Art Works FY2017 - Limited Submission**

National Endowment for the Arts

[http://arts.gov/grants-organizations/art-works/grant-program-description](http://arts.gov/grants-organizations/art-works/grant-program-description)

Contact:

Solicitation number:

Art Works projects support the creation of art that meets the highest standards of excellence, public engagement with diverse and excellent art, lifelong learning in the arts, and the strengthening of communities through the arts. NEA welcomes projects that: 1) are likely to prove transformative with the potential for meaningful change, whether in the development or enhancement of new or existing art forms, new approaches to the creation or presentation of art, or new ways of engaging the public with art; 2) are distinctive, offering fresh insights and new value for their fields and/or the public through unconventional solutions; and 3) have the potential to be shared and/or emulated, or are likely to lead to other advances in the field. An organization may request a grant amount from $10K to $100K. Applications will be accepted under two deadlines, depending on discipline.

---

**National Endowment for the Humanities (NEH)**
Division of Education Programs
National Endowment for the Humanities

http://www.neh.gov/grants/education/humanities-initiatives-hispanic-serving-institutions

Contact: 202/606-8471, hi@neh.gov

Solicitation number:

This initiative is intended to strengthen the teaching and study of the humanities in subjects such as history, philosophy, and literature. These grants may be used to enhance existing humanities programs, resources, or courses, or to develop new ones. Initiatives may create opportunities for faculty members to study together, in order to improve their capacity to teach the humanities;
support new humanities programs (which may include but are not limited to new humanities minors, first-year seminars, and capstone courses), and enhance existing ones; support humanities contributions to professional training (in such fields as business, law, economics, technology, and nursing and medicine); develop bridge programs for at-risk and nontraditional students; help institutions take advantage of humanities resources, especially in the digital humanities; and support collaborative projects in the humanities between the applicant institution and another institution, such as a college or university, a school or school system, a museum or library, or a historical or cultural society. Each project must be organized around a core topic or set of themes.

National Institutes of Health (NIH)

Ongoing

Evidence for Action: Investigator-Initiated Research to Build a Culture of Health

National Institutes of Health


Contact: Erin Hagan, evidenceforaction@ucsf.edu

Solicitation number:

The program aims to provide individuals, organizations, communities, policymakers, and researchers with the empirical evidence needed to address the key determinants of health encompassed in the Culture of Health Action Framework. In addition, Evidence for Action will also support efforts to assess outcomes and set priorities for action. It will do this by encouraging and supporting creative, rigorous research on the impact of innovative programs, policies and partnerships on health and well-being, and on novel approaches to measuring health determinants and outcomes.

Growing Great Ideas: Research Education Course in Product Development and Entrepreneurship for Life Science Re

National Institutes of Health


Contact: Elena Koustova, 301/496-8768, elena.koustova@nih.gov

Solicitation number: RFA-DA-17-007

This program supports research education activities in the mission areas of the NIH. The over-arching goal of this NIDA R25 program is to support educational activities that enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Courses for Skills Development. This FOA solicits applications to develop and implement research education programs/short courses in entrepreneurship, innovation and product development specifically targeting bench life scientists. The institution proposing the course must be a research-intensive institution that has an established and well-recognized entrepreneurship teaching program with the demonstrated ability and willingness to adapt/develop and deliver the integrated curriculum for the academic life scientists, including scientists working in the field of drug abuse and addiction research. The short courses should primarily target independent academic neuroscience researchers and post-doctoral fellows interested in incorporating product (drug, device, diagnostics, research tool, mobile health application, etc.) development into their research programs with the goal of future commercialization. Direct costs of up to $250K per year may be requested.
Understanding Barriers and Facilitators to Type 1 Diabetes Management in Adults (DP3)

National Institutes of Health


Contact: Christine M. Hunter, 301/594-4728, hunterchristine@niddk.nih.gov

Solicitation number: RFA-DK-16-002

The goal of this Funding Opportunity Announcement (FOA) is to support research that will identify barriers and facilitators to good diabetes self-management in adults with type 1 diabetes. The results from this research should inform future intervention research in adults with type 1 diabetes. Application budgets are limited to $2.5 million in direct costs, for the entire project period of up to five years.

Emerging Questions in Cancer Systems Biology (U01)

National Institutes of Health


Contact: Shannon Hughes, 240/276-6224, shannon.hughes@nih.gov

Solicitation number: PAR-16-131

This FOA invites cooperative agreement applications for Research Projects that utilize systems biology approaches to address emerging questions in cancer initiation, progression, and treatment. Cancer Systems Biology Consortium (CSBC) Research Projects are expected to involve interdisciplinary teams of physical scientists (e.g., engineers, chemists, computer scientists, mathematicians, physicists, population scientists, statisticians, epidemiologists) and cancer researchers (e.g., cancer biologists, oncologists, pathologists and clinicians in relevant disciplines) who collaborate to advance our understanding of cancer biology and oncology. CSBC Research Projects proposed in response to this FOA must demonstrate explicit integration of experimental biology and computational modeling to test and validate novel hypotheses in cancer research. The maximum project period is 5 years.

This FOA runs in parallel with two FOAs of identical scope, RFA-CA-15-014 and RFA-CA-15-015, that utilize the U54 Specialized Center–Cooperative Agreements and the U24 Resource-Related Research Projects – Cooperative Agreements mechanisms, respectively.

Cooperative Study Group for Autoimmune Disease Prevention (U01)

National Institutes of Health


Contact: Thomas Esch, 240/627-3565, tesch@niaid.nih.gov

Solicitation number: RFA-AI-16-003

This FOA solicits applications from single institutions or consortia of institutions to participate in the Cooperative Study Group for Autoimmune Disease Prevention. The CSGADP is a multi-center cooperative program established in 2001 as a closely interactive and collaborative network of investigators, with a focus on autoimmune disease prevention and a historical emphasis on type 1 diabetes. The Study Group has as its foundation a set of cooperative agreements coordinated by a Steering Committee, and also draws upon an Infrastructure and Opportunities Fund (IOF) to support a range of innovative, collaborative, and pilot and feasibility projects within and outside the Study Group membership to further the goals of the CSGADP program. These goals include understanding the immune mechanisms that underlie autoimmunity and autoimmune disease, the mechanisms and consequences of manipulation of the immune response in autoimmunity, and the application of this information to the prevention of autoimmune diseases in humans. The purpose of this FOA is to continue the support for the CSGADP program. Although the Study Group has historically maintained a strong interest and research program in type 1 diabetes, applications that include projects on other autoimmune diseases or projects related to more than one autoimmune disease are also encouraged. The long-term goal of this program is to develop the knowledge base necessary to design selective interventions for the prevention of autoimmune disease. For the purpose of this FOA, “prevention of autoimmune disease” is defined as halting the development of an autoimmune disease prior to clinical onset by means other than global immunosuppression. Budgets may be requested up to $1.6M direct costs per year for five years.
Tobacco Regulatory Science Small Grant Program for New Investigators (R03)

National Institutes of Health


Contact: Rachel Grana, 240/276-5899, granar@mail.nih.gov

Solicitation number: RFA-OD-15-004

The purpose of this FOA is to support New Investigators in the biomedical, behavioral, and social sciences who are in the early stages of establishing independent careers in tobacco regulatory research. The R03 grant mechanism supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. Applicants are encouraged to conduct projects that ultimately have potential to inform regulations on tobacco product manufacturing, distribution, and marketing. Research projects must address the research priorities related to the regulatory authority of the Food and Drug Administration (FDA) Center for Tobacco Products (CTP) as mandated by the Family Smoking Prevention and Tobacco Control Act (FSPTCA), Public Law 111-31. Application budgets are limited to $75K per year for up to two years in length.

Bridges to the Doctorate (R25) - Limited Submission

National Institutes of Health


Contact: Jessica Faupel-Badger, 301/594-3900, Jessica.FaupelBadger@nih.gov

Solicitation number: PAR-16-109

The over-arching goal of this NIGMS R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Courses for Skills Development and Research Experiences. This program is intended to provide these activities to master’s level students to increase transition to and completion of PhDs in biomedical sciences. This program requires partnerships between master’s degree-granting institutions with doctorate degree-granting institutions. Applicants should directly address how the set of activities will complement and/or enhance the training of a diverse workforce that also meets the nation’s biomedical and clinical research needs by discussing 1) the rationale underlying the balance of effort and resources dedicated to each activity; 2) how the activities integrate; and 3) objective indicators that can measure the effectiveness of the program. A program application must include each activity, and describe how they will be synergized to make a comprehensive program. Additionally, recruitment and retention plans are expected as part of the application. Application budgets are limited to $300K direct costs per year.

Pragmatic Research in Healthcare Settings to Improve Diabetes and Obesity Prevention and Care (R18)

National Institutes of Health


Contact: Andrew Bremer, 301/827-2555, Andrew bremer@nih.gov

Solicitation number: PAR-15-157

The purpose of this Research Demonstration and Dissemination Projects (R18) FOA is to encourage research applications to test approaches to improve diabetes and obesity prevention and/or treatment in routine healthcare settings. Research applications should be designed to test practical and potentially sustainable strategies to improve processes of care and health outcomes for individuals who are overweight or obese or at risk for becoming overweight or obese and/or at risk for or have type 1 or type 2 diabetes. The goal of the research is to obtain results that will improve routine healthcare practice and inform healthcare policy for the prevention or management of these conditions. The maximum project period is five years.
Biomedical and Behavioral Research Innovations to Ensure Equity (BRITE) in Maternal and Child Health (R15)

National Institutes of Health


Contact: Reiko Toyama, 301/435-2723, toyamar@mail.nih.gov

Solicitation number: PAR-15-319

The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) seeks to increase the diversity of the pool of researchers involved in health equity research related to NICHD mission areas including: preterm birth; infant mortality; sudden infant death syndrome (SIDS); maternal mortality; reproductive health; uterine fibroid tumors; childhood, adolescent, and/or adult obesity; violence prevention; perinatal HBV and HIV/AIDS prevention; HIV/AIDS prevention; asthma; intellectual and developmental disabilities; pediatric injury prevention; and medical rehabilitation. The goal of the Biomedical and Behavioral Research Innovations To Ensure Equity (BRITE) in maternal and child health program is to stimulate maternal and child health equity research. Applicants may request a maximum of $300K direct costs plus applicable Facilities & Administrative (F&A) costs/indirect costs for the entire project period of up to three years. No more than $150K may be spent in any single year without prior approval from NICHD.

NIDDK Short-Term Education Program for Underrepresented Persons (STEP-UP) (R25)

National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)


Contact: Robert Rivers, 301/443-8415, riversrc@mail.nih.gov

Solicitation number: RFA-DK-16-021

This program 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. The direct costs for the high school program cannot exceed $194K per year. For the undergraduate program, the direct costs cannot exceed $255K per year. The maximum project period is five years.
Imaging and Biomarkers for Early Cancer Detection (R01)

National Institutes of Health, National Cancer Institute (NCI)


Contact: Richard Mazurchuk, 240/276-7126, richard.mazurchuk@nih.gov

Solicitation number: PAR-16-089

This FOA invites research project (R01) applications that combine imaging and biomarkers. The overall objective of this FOA is to facilitate collaborative imaging and biomarker research to improve cancer screening, early cancer detection and diagnosis by integrating multi modality imaging strategies and multiplexed biomarker methodologies. Application budgets are not limited, but need to reflect the actual needs of the proposed project. The maximum project period is five years.

Time-Sensitive Obesity Policy and Program Evaluation (R01)

National Institutes of Health


Contact: Christine Hunter, 301/594-4728, ch514c@nih.gov

Solicitation number: PAR-15-346

This FOA establishes an accelerated review/award process to support time-sensitive research to evaluate a new policy or program that is likely to influence obesity related behaviors (e.g., dietary intake, physical activity, or sedentary behavior) and/or weight outcomes in an effort to prevent or reduce obesity. This FOA is intended to support research where opportunities for empirical study are, by their very nature, only available through expedited review and funding. All applications to this FOA must demonstrate that the evaluation of an obesity related policy and /or program offers an uncommon and scientifically compelling research opportunity that will only be available if the research is initiated with minimum delay. For these reasons, applications in response to this time-sensitive FOA are not eligible for resubmission. It is intended that eligible applications selected for funding will be awarded within 4 months of the application due date. However, administrative requirements and other unforeseen circumstances may delay issuance dates beyond that timeline. The maximum project period is 5 years. Letters of intent are due 30 days prior to the application receipt date.

Novel Nucleic Acid Sequencing Technology Development (R01)

National Institutes of Health


Contact: Michael Smith, 301/402-1114, smithmw@mail.nih.gov

Solicitation number: RFA-HG-15-032

This FOA solicits R01 grant applications to develop novel technologies that will enable new approaches to DNA and direct RNA sequencing. Applicants may propose to develop novel complete sequencing systems, investigate challenges underlying key novel system components, or propose improvements of at least an order of magnitude improvement to existing systems. Exploration of methods other than those currently in use is highly encouraged. High-risk/high-payoff applications are appropriate to achieve the goals of this FOA. An applicant may request direct costs of up to $700K per year. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary.


Applicants whose OT1 pre-applications are found to be meritorious and programmatically relevant will be invited to submit a full application to the OT2 "Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs" FOA (RFA-RM-15-018). There will be substantial interaction with NIH Program Staff leading to the development of programmatic and budget elements for an acceptable OT2 application. OT2 applications must include a copy of the Invitation to Submit from the SPARC program as a requirement for submission. The Invitation to Submit an OT2 application is not an indication of any award.

Laboratory and Diagnostic Tools to Advance Microbiome-Brain Research (R41)

This FOA aims to support the development of novel analytical tools, technologies and research resources to study the microbiome, including its composition, genetics, and bioactivity. NCCIH is interested in the role of gut microbiota, and the potential for pre- and probiotics in modulating gut microbiota to prevent and treat a variety of diseases, and disorders including those that may be associated with the brain-gut axis (e.g., pain and anxiety). Novel assays (e.g., high dimensional methods, analytical and informatics tools) need to be developed and widely used to characterize and determine the bioactivity of, and interactions among prebiotics, probiotics and commensal microbiota. Tool-enabling discovery examining the range and complexity of bioactivity, and diversity among prebiotics and probiotics and gut-microbiota will advance research, and clinical application aimed at the diagnosis, treatment, and prevention of disease and disorders. Budgets up to $150,000 total costs per year may be requested.

This FOA runs in parallel with an FOA of identical scope, RFA-DA-17-017, that utilizes the R43/R44 Small Business Innovation Research (SBIR) Grant mechanism.
Countermeasures Against Chemical Threats (CounterACT) Cooperative Research Projects (U01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-16-128

The mission of this program is to develop new and improved therapeutics to treat and/or prevent injuries resulting from exposure to chemical threats. Chemical threats are toxic chemicals that could be used in a terrorist attack or accidentally released from industrial production, storage or shipping. They include traditional chemical warfare agents and toxic industrial chemicals and materials. This FOA requests research applications seeking support for research on the optimization of small molecule or biologic compounds that are excellent candidates for therapeutic development. A previously identified lead compound is required to be eligible for this funding opportunity. In this regard, lead compounds are defined as biologically active compounds or hits where affinity, potency, target selectivity, and preliminary safety have been established. The scope of research supported by this FOA includes development of appropriate human-relevant animal models and generation of in vivo efficacy data consistent with the intended use of the product in humans. It also includes bioanalytical assay development and validation, laboratory-scale and scale-up manufacturing of the product, and non-GLP toxicity and pharmacology studies. The expected direct cost for individual awards is $300K-$500K per year for five years.

This FOA runs in parallel with three FOAs of identical scopes; PAR-15-315, PAR-15-146, and PAR-16-129; that utilize the R21 Exploratory/Developmental Grant, the U54 Specialized Center- Cooperative Agreements, and the U01 Research Project – Cooperative Agreement mechanisms, respectively.

Cutting-Edge Basic Research Awards (CEBRA) (R21)

National Institutes of Health, National Institute on Drug Abuse (NIDA)


Contact: Susan Volman, 301/435-1315, svolman@mail.nih.gov

Solicitation number: PAR-15-079

This award is designed to foster highly innovative or conceptually creative research related to drug abuse and addiction and how to prevent and treat them. It supports research that is high-risk and potentially high-impact that is underrepresented or not included in NIDA’s current portfolio. The proposed research should: 1) test a highly novel and significant hypothesis for which there are scant precedent or preliminary data and which, if confirmed, would have a substantial impact on current thinking; and/or 2) develop or adapt innovative techniques or methods for addiction research, or that have promising future applicability to drug abuse research. Direct costs are limited to $125K per year for up to two years.
Food Specific Molecular Profiles and Biomarkers of Food and Nutrient Intake, and Dietary Exposure (R01)

National Institutes of Health


Contact: Padma Maruvada, 301/594-8888, padma.maruvada@nih.gov

Solicitation number: PAR-15-024

NIH and USDA-NIFA jointly support this FOA and encourage applications from well-qualified and experienced researchers, for addressing the specific gaps on food specific molecular signatures and biomarkers of food and nutrient intake, and dietary exposure over time. The FOA supports both animal and human studies as appropriate. Clinical studies that involve controlled feeding and short term bolus feeding studies involving limited human subjects are appropriate for this purpose. However, large interventional or observational clinical studies will not be supported through this FOA. Applicants may be able to take advantage of ongoing trials that may be able to accommodate some of the feeding studies as part of the larger trial or leverage an already available specimen resource, in responding to this FOA. In addition to supporting scientific research, both NIH and USDA hope to promote collaborative interaction among funded researchers through this effort. Awarded grantees from both agencies, in response to this FOA are required to plan and attend 2-3 workshops during the funded period. Research approaches of interest for this FOA include but are not limited to: (1) Identification and validation of food and nutrient specific metabolic signatures that correlate with nutrient quality and efficacy and nutrient consumption, (2) Identification and validation of molecular signatures of dietary consumption of nutrients over time, including commonly used nutrient supplements, and energy supplements or beverages, (3) Studies that explore the interaction/competition between various nutrients including natural products for their absorption, transport, metabolism and elimination, (4) Studies that explore the interaction/competition between various nutrients and drugs for their absorption, transport, metabolism and elimination, dose response, bioavailability, toxicity, and ADME profiles, (5) Studies that explore natural products/nutrients, microbiota interactions with host physiology and metabolism. The maximum project period is 5 years.

Natural History Studies for Rare Disease Product Development: Orphan Products Research Project Grant (R01)

National Institutes of Health


Contact: Katherine Needleman, 301/796-8660, katherine.needleman@fda.hhs.gov

Solicitation number: RFA-FD-16-043

The objective of this FOA is to support studies that advance rare disease medical product development through characterization of the natural history of rare diseases/conditions, identification of genotypic and phenotypic subpopulations, and development and/or validation of clinical outcome measures, biomarkers and/or companion diagnostics. The ultimate goal of these natural history studies is to support clinical development of products for use in rare diseases or conditions where no current therapy exists or where the proposed product will be superior to the existing therapy. FDA provides grants for natural history studies that will either assist or substantially contribute to market approval of these products. Applicants must include in the application's Background and Significance section documentation to support that the estimated prevalence of the orphan disease or condition in the United States (US) is less than 200,000 (or in the case of a vaccine or diagnostic, information to support that the product will be administered to fewer than 200,000 people in the US per year), and an explanation of how the proposed study will either help support product approval or provide essential data needed for product development. It is anticipated that up to five (5) awards will be made, not to exceed $400K in total costs (direct plus indirect), per award, per fiscal year.
NIH Pioneer Award Program (DP1)
National Institutes of Health
Contact: Ravi Basavappa, 301/435-7204, PioneerAwards@mail.nih.gov
Solicitation number: RFA-RM-16-005
The NIH Pioneer Award initiative complements NIH's traditional, investigator-initiated grant programs by supporting individual scientists of exceptional creativity who propose pioneering and possibly transforming approaches to addressing major biomedical or behavioral challenges that have the potential to produce an unusually high impact on a broad area of biomedical or behavioral research. To be considered pioneering, the proposed research must reflect substantially different scientific directions from those already being pursued in the investigator's research program or elsewhere. Awards will be for $700K in direct costs each year for a maximum of five years, plus applicable Facilities and Administrative costs to be determined at the time of award.

Partnerships for Countermeasures Against Select Pathogens (R01)
National Institutes of Health
Contact: Michael Schaefer, 240/627-3364, mschaefer@niaid.nih.gov
Solicitation number: RFA-AI-16-034
The purpose of this FOA is to solicit research applications for milestone-driven projects focused on preclinical development of lead candidate countermeasures (therapeutics, vaccines and related technologies, or diagnostics) against select NIAID Emerging Infectious Diseases/Pathogens. Applications must include a Product Development Strategy attachment and demonstrate substantive investment by at least one industrial participant. Budgets for direct costs of up to $750K per year may be requested. Applicants may also request up to an additional $300K in the first year of the award for major equipment to ensure that research objectives can be met and biohazards can be contained, totaling $1.05M direct costs.

NIDDK Research Education Program Grants for Summer Research Experiences (R25) -- AIDS
National Institutes of Health
https://researchfunding.duke.edu/niddk-research-education-program-grants-summer-research-experiences-r25-aids
Contact: Authur Castle, 301/594-7719, castlea@mail.nih.gov
Solicitation number: PAR-15-140
This program supports research education activities in the mission areas of the NIH. The over-arching goal of this NIDDK Research Education R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities that propose summer research experiences in the research areas relevant to the NIDDK. Budgets for direct costs of up to $100K per year and a project duration of up to five years may be requested for a maximum of $500K direct costs over a five-year project period.
Ethical, Legal and Policy Issues in HIV Research with Key Populations (R01, R21)

National Institutes of Health


Contact:

Solicitation number: PAR-15-328

This Funding Opportunity Announcement (FOA) encourages applications to analyze and address ethical, legal, or policy challenges specific to work with key populations in HIV research or health care.

Proposed projects should be focused on ethical, legal or policy challenges in relation to research studies or program implementation for HIV or associated co-morbidities, affecting one or more of the following key populations: (1) men who have sex with men; (2) people who inject drugs; (3) people in prisons and other closed settings; (4) sex workers; (5) transgender people or (6) adolescent girls and young women at high risk of HIV acquisition or who are living with HIV. This FOA encourages both empirical and conceptual research projects addressing these topics.

Early Stage Development of Technologies in Biomedical Computing, Informatics, and Big Data Science (R01) -- AIDS

National Institutes of Health


Contact: David Balshaw, 919/541-2448, Balshaw@niehs.nih.gov

Solicitation number: PA-14-155

The NIH is interested in promoting a broad base of research and development of technologies in biomedical computing, informatics, and Big Data Science that will support rapid progress in areas of scientific opportunity in biomedical research. It is expected that this research and development is conducted in the context of important biomedical and behavioral research problems. As such, applications are intended to develop enabling technologies that could apply to the interests of most NIH Institutes and Centers and range from basic biomedicine and including research to all relevant organ systems and diseases. Major themes of research include collaborative environments; data integration; analysis and modeling methodologies; and novel computer science and statistical approaches. New opportunities are also emerging as large and complex data sets are becoming increasingly available to the research community. This initiative aims to address biomedical research areas in biomedical computing, informatics, and Big Data science through the early stage development of new software, tools and related resources, as well as the fundamental research (e.g., methodologies and approaches) leading up to that development. Acceptable budgets are not to exceed $300k direct costs per year. The project period is limited to three years.

Systems Biology of Aging (R01)

National Institutes of Health


Contact: Ronald Kohanski, 301/496-6402, kohanski@mail.nih.gov

Solicitation number: RFA-AG-17-004

This FOA encourages research projects with the potential to develop networks of aging using lifespan as the observable phenotype. In addition to constructing aging networks, two further important goals of this FOA are: 1. Determining what properties of an aging network change across the lifespan; 2. Using aging networks to generate and test hypotheses about fundamental questions in the biology of aging that are more likely to be answered using systems biology than by single-gene approaches. Research proposed in applications responding to this FOA will utilize either the single-cell organism Saccharomyces cerevisiae or the multicellular organism Caenorhabditis elegans, both of which have been used extensively for genetic and molecular studies on aging. Application budgets are limited to a maximum of $600K per year direct costs over a period of 5 years.
Earth Sciences Instrumentation and Facilities (EAR IF)
National Science Foundation, Geosciences (GEO)
Contact: Varies with research interest
Solicitation number: NSF 11-544
The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division. EAR/IF will consider proposals for: Development of New Instrumentation, Analytical Techniques, or Software; Support of National or Regional Multi-User Facilities; or Support for Early Career Investigators. Proposals for Acquisition or Upgrade of Research Equipment will not be accepted in the Fiscal Year 2012 competition.

Grant Opportunities for Academic Liaison with Industry (GOALI)
National Science Foundation, Cross-Directorate
Contact: Varies with research interest
Solicitation number: NSF 12-513
GOALI promotes university-industry partnerships by making project funds or fellowships/traineeships available to support an eclectic mix of industry-university linkages. Special interest is focused on affording the opportunity for: Faculty, postdoctoral fellows, and students to conduct research and gain experience in an industrial setting; Industrial scientists and engineers to bring industry’s perspective and integrative skills to academe; and Interdisciplinary university-industry teams to conduct research projects. Each directorate handles GOALI requests differently. Proposers must contact a specific program director in the disciplinary area of the proposed research for guidance on proposal submission.

NSF-FDA Scholar-in-Residence at FDA
National Science Foundation, Computer and Information Sciences and Engineering (CISE), Engineering (ENG)
Contact: Leon Esterowitz, 703/292-7942, lesterow@nsf.gov
Solicitation number: NSF 10-533
This program comprises an interagency partnership for the investigation of scientific and engineering issues concerning emerging trends in medical device technology. This partnership is designed to enable investigators in science, engineering, and mathematics to develop research collaborations within the intramural research environment at the FDA. This solicitation features four flexible mechanisms for support of research at the FDA: 1) Faculty at FDA; 2) Graduate Student Fellowships; 3) Postdoctoral Fellowships; and 4) Undergraduate Student Research Experiences. Approximately three to ten awards will be given, with an estimated program budget of $500K.

Hydrologic Sciences
National Science Foundation, Geosciences (GEO)
Contact: Thomas Torgersen, 703/292-8549, ttorgers@nsf.gov
Solicitation number: NSF 15-558
This program focuses on the fluxes of water in the environment that constitute the water cycle as well as the mass and energy transport function of the water cycle in the environment. The Program supports studying processes from rainfall to runoff to infiltration and streamflow; evaporation and transpiration; as well as the flow of water in soils and aquifers and the transport of suspended, dissolved and colloidal components. This program retains a strong focus on linking the fluxes of water and the components carried by water across the boundaries between various interacting components of the terrestrial system and the mechanisms by which these fluxes co-organize over a variety of timescales and/or alter the fundamentals of the interacting components. The Program is also interested in how water interacts with the solid phase, the landscape and the ecosystem as well as how such interactions and couplings are altered by land use and climate change. Studies may address aqueous geochemistry and solid phase interactions as well as physical, chemical, and biological processes as coupled to water transport. Regular research awards supported by HS are generally but not exclusively in the range of $250K to $700K and of 2-4 years duration. Hydrologic process synthesis projects should be at a level appropriate to the scope of topic and are expected to be conducted at total levels of <$1M over 3-5 years with an emphasis on support of graduate students and postdocs.
**Geobiology and Low-Temperature Geochemistry**

National Science Foundation, Geosciences (GEO)


Contact: Enriqueta Barrera, 703/292-7780, ebarrera@nsf.gov

Solicitation number: NSF 15-559

This program supports research on: 1) the interactions between biological and geological systems at all scales of space and time; 2) geobiology and biomineralization processes; 3) the role of life in the transformation and evolution of the Earth's geochemical cycles; 4) inorganic and organic geochemical processes occurring at or near the Earth's surface now and in the past, and at the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 5) mineralogy and chemistry of soils and sediments; 6) surficial chemical and biogeochemical systems and cycles and their modification through natural and anthropogenic change; and 7) development of tools, methods, and models for low-temperature geochemistry and geobiological research - such as those emerging from molecular biology - in the study of the terrestrial environment. This program is especially interested in proposals in emerging fields. Anticipated funding is $5.2M annually for 30-40 standard awards.

**Sedimentary Geology and Paleobiology (SGP)**

National Science Foundation, Geosciences (GEO)


Contact: Judith Skog, 703/292-7909, jskog@nsf.gov

Solicitation number: NSF 16-536

SGP supports research in a wide variety of areas in sedimentary geology and paleobiology in order to comprehend the full range of physical, biological, and chemical processes of Earth's dynamic system. The program supports the study of deep-time records of these processes archived in the Earth's sedimentary crust at all spatial and temporal scales. These records are fingerprints of the processes that produced them and continue to shape the Earth. For the years 2013-2017, the Sedimentary Geology and Paleobiology Program will be sponsoring a two track opportunity that will consist of the normal SGP competition (Track 1) and bi-annually, a new track termed Earth-Life Transitions (ELT) (Track 2). Track 1: General Program supports general studies of: 1) the changing aspects of life, ecology, environments, and biogeography in past geologic time based on fossil plants, animals, and microbes; 2) all aspects of the Earth's sedimentary carapace - insights into geological processes recorded in its records and rich organic and inorganic resources locked in rock sequences; 3) the science of dating and measuring the sequence of events and rates of geological processes as manifested in Earth's past sedimentary and biological (fossil) record; 4) the geologic record of the production, transportation, and deposition of physical and chemical sediments; and 5) understanding Earth's deep-time (pre-Holocene) climate systems. Track 2: Earth-Life Transitions: The goals of the ELT track are: 1) to address critical questions about Earth-Life interactions in deep-time through the synergistic activities of multi-disciplinary science and 2) to enable team-based interdisciplinary projects involving stratigraphy, sedimentology, paleontology, proxy development, calibration and application studies, geochronology, and climate modeling at appropriately resolved scales of time and space, to understand major linked events of environmental, climate and biotic change at a mechanistic level. Annual estimated program budget, number of awards, and average award size/duration are subject to the availability of funds and the quality of the proposals.

**High-Risk Research in Biological Anthropology and Archaeology (HRRBAA)**

National Science Foundation, Social, Behavioral, and Economic Sciences (SBE)


Contact: John Yellen, 703/292-8759, jyellen@nsf.gov

Solicitation number: NSF 08-523

Anthropological research may be conducted under unusual circumstances, often in distant locations. As a result the ability to conduct potentially important research may hinge on factors that are impossible to assess from a distance and some projects with potentially great payoffs may face difficulties in securing funding. This program gives small awards that provide investigators with the opportunity to assess the feasibility of an anthropological research project. The information gathered may then be used as the basis for preparing a more fully developed research program. Projects which face severe time constraints because of transient phenomena or access to materials may also be considered. Individual awards are limited to $35K and one year duration.
**Geomorphology and Land Use Dynamics**

National Science Foundation, Geosciences (GEO)


Contact: Richard Yuretich, 703/292-8548, ryuretic@nsf.gov

Solicitation number: NSF 15-560

This program supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that investigates quantitatively the coupling and feedback among such processes, their rates, and their relative roles, especially in the contexts of variation in climatic and tectonic influences and in light of changes due to human impact. Anticipated funding is $5M for a total of 25 to 35 standard or continuing grants per year.

**OFR-NSF Partnership in Support of Research Collaborations in Finance Informatics**

National Science Foundation


Contact: Vasant Honavar, vhanavar@nsf.gov

Solicitation number: NSF 13-093

NSF and OFR have established a collaboration centered on Computational and Information Processing Approaches to and Infrastructure in support of, Financial Research and Analysis and Management (hereafter referred to as CIFRAM) to identify and fund a small number of exploratory but potentially transformative CIFRAM research proposals. The collaboration enables OFR to support a broad range of financial research related to OFR’s mission, including research on potential threats to financial stability. It also assists OFR with the goal of promoting and encouraging collaboration between the government, the private sector, and academic institutions interested in furthering financial research and analysis. The collaboration enables the NSF to nurture fundamental CISE research on a variety of topics including algorithms, informatics, knowledge representation, and data analytics needed to advance the current state of the art in financial research and analysis. Proposals that involve collaborations between Computer Scientists, Mathematicians, Statisticians, and experts in Financial Risk Analysis and Management are especially welcome.

**Earth Sciences: Instrumentation and Facilities (EAR/IF)**

National Science Foundation


Contact: David Lambert, 703/292-8558, dlambert@nsf.gov

Solicitation number: NSF 15-516

The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division (see [http://www.nsf.gov/div/index.jsp?div=EAR]). EAR/IF will consider proposals for: 1) Acquisition or Upgrade of Research Equipment, 2) Development of New Instrumentation, Techniques or Software, 3) Support of National or Regional Multi-User Facilities or 4) Support for Early Career Investigators.

**Archaeology Program - Doctoral Dissertation Research Improvement Awards**

National Science Foundation


Contact: John Yellen, 703/292-8759, jyellen@nsf.gov

Solicitation number: NSF 15-554

The Archaeology Program supports anthropologically relevant archaeological research. This means that the value of the proposed research can be justified within an anthropological context. The Program sets no priorities by either geographic region or time period. It also has no priorities in regard to theoretical orientation or question and it is the responsibility of the applicant to explain convincingly why these are significant and have the potential to contribute to anthropological knowledge. While the Program, in order to encourage innovative research, neither limits nor defines specific categories of research type, most applications either request funds for field research and/or the analysis of archaeological material through multiple approaches. The Program also supports methodological projects which develop analytic techniques of potential archaeological value. Doctoral Dissertation Research Improvement (DDRI) awards may not exceed $20K over the duration of the three-year project period.
Conferences and Workshops in the Mathematical Sciences
National Science Foundation
Contact: Tomek Bartoszynski, 703/292-4885, tbartosz@nsf.gov
Solicitation number: NSF 16-550
The Division of Mathematical Sciences (DMS) has long supported conferences, workshops, and related activities. Examples of related activities include longer-term or larger-scale events such as multi-institutional regional meetings, summer or winter schools, and international travel by groups of mathematical scientists. Proposals for conferences normally request funding in the range of $5K to $25K, though awards of up to $50K have been made on occasion. Proposals for other kinds of conference-like activities may request funding of any amount and for durations of up to three years; in past years, some such awards have fallen in the range of $50K to $150K per year.

6/24/2016  Full Proposal

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science
National Science Foundation
Contact: varies
Solicitation number: NSF 16-544
Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) is a comprehensive national initiative designed to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) discoveries and innovations, focused on NSF’s commitment to diversity, inclusion, and broadening participation in these fields. NSF INCLUDES supports efforts to develop talent from all sectors of society to build the STEM workforce. The initiative aims to improve the preparation, increase the participation, and ensure the contributions of individuals from groups that have traditionally been underrepresented and underserved in the STEM enterprise, including women, members of racial and ethnic groups, persons with disabilities, and persons with low socio-economic status. Significant advancement of these groups will result in a new generation of promising STEM talent and leadership to secure our nation’s future in science and technology.

In FY 2016, the NSF INCLUDES initiative invites proposals for Design and Development Launch Pilots, which are pilot projects that represent bold, innovative ways for solving a broadening participation (BP) challenge in STEM. The Launch Pilots will be funded for up to two years, for a maximum of $300K. Successful pilots will deliver models or prototypes for collective efforts aimed at increasing the active participation of those who have been traditionally underserved and underrepresented in all fields of STEM. Teams of organizations might come together locally, regionally, nationally, or by disciplinary focus. Key to a successful proposal will be the identification of a specific goal and measurable objectives, and an argument that the set of partners being assembled includes all who are needed to successfully address the objective. The plan must articulate its potential for scaling. These planning and start-up activities are aimed at engaging appropriate communities in testing the feasibility of developing a full-scale plan and process for change, including identifying other support mechanisms for sustaining the efforts. Early in the first year, the partners are expected to refine their collective commitment to a common set of objectives and plans to achieve them. No later than the second year, successful teams are expected to carry out and report on the results of projects to demonstrate their ability to implement a collective impact-style approach to address the selected BP challenge. Early in FY 2017, the successful Design & Development Launch Pilots will share their goals and plans in a live event and/or webinar with one another, the broader community, and NSF, enabling all to learn from their pilot project experiences. This effort will facilitate the formation of NSF INCLUDES Alliances.

7/15/2016  Proposal

GeoPrisms Program
National Science Foundation, Geosciences (GEO)
Contact: Varies with research interest
Solicitation number: NSF 15-564
NSF invites proposals directed towards the program elements listed in the special-focus section of the FOA. GeoPRISMS will carry out interdisciplinary investigations of the coupled geodynamics, earth surface processes and climate interactions that build and modify continental margins over a wide range of time scales. GeoPRISMS investigations should be aimed towards a comprehensive understanding of the observable system properties, and can include theoretical, numerical and experimental studies, as well as field investigations.
Faculty Early Career Development Program (CAREER) 2016

The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. Such activities should build a firm foundation for a lifetime of leadership in integrating education and research. The Presidential Early Career Awards for Scientists and Engineers (PECASE) from among the most meritorious recent CAREER awardees. Selection for this award is based on two important criteria: 1) innovative research at the frontiers of science and technology that is relevant to the mission of NSF, and 2) community service demonstrated through scientific leadership, education or community outreach. These awards foster innovative developments in science and technology, increase awareness of careers in science and engineering, give recognition to the scientific missions of the participating agencies, enhance connections between fundamental research and national goals, and highlight the importance of science and technology for the Nation's future.

Contact: 703/292-5111, info@nsf.gov
Solicitation number: NSF 15-555

Prediction of and Resilience against Extreme Events (PREEVENTS)

The PREEVENTS portfolio will include the potential for disciplinary and multidisciplinary research at all scales, particularly aimed at areas ripe for significant near- or medium-term advances. PREEVENTS seeks projects that will (1) enhance understanding of the fundamental processes underlying natural hazards and extreme events on various spatial and temporal scales, as well as the variability inherent in such hazards and events, and (2) improve our capability to model and forecast such hazards and events. The two program tracks available are: Track 1 (Conferences) proposals may be submitted for conferences that will foster development of interdisciplinary or multidisciplinary communities required to address complex questions surrounding natural hazards and extreme events; and Track 2 which welcomes proposals addressing both primary targets described above, but which may extend beyond what is typically supported by GEO “core” programs due to the scope, scale, and/or complexity of the problem to be studied or approaches to be used; because the problem requires a multidisciplinary approach spanning multiple GEO programs or divisions; or for other similar programmatic reasons. Budgets for Track 1 proposals are generally limited to less than $50K, but under exceptional circumstances may be up to $100K. Track 2 proposals may be submitted for durations of up to five years. Project durations and budgets must be commensurate with the scope of the work proposed, and with guidance provided elsewhere in this solicitation regarding anticipated program resources.

Law & Social Sciences (LSS)

This program considers proposals that address social scientific studies of law and law-like systems of rules. The program is inherently interdisciplinary and multi-methodological. Successful proposals describe research that advances scientific theory and understanding of the connections between law or legal processes and human behavior. LSS provides the following modes of support: 1) Standard Research Grants and Grants for Collaborative Research; 2) Doctoral Dissertation Research Improvement Grants; 3) Interdisciplinary Postdoctoral Fellowships; and 4) Workshop and Conference Proposals. Approximately 75 awards will be made.
**Division of Environmental Biology (CORE programs) (DEB)**

National Science Foundation, Biological Sciences (BIO)


Contact: 703/292-8480, debquestions@nsf.gov

Solicitation number: NSF 15-609

This program supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles. About 200 awards will be made each year. The Division also welcomes proposals for Small Grants to the core programs via this solicitation. Projects intending total budgets of $150K or less should be identified as such with the designation "SG:" as a prefix to the project title. These awards are intended to support full-fledged research projects that simply require smaller budgets. Small Grant projects will be assessed based on the same merit review criteria as all other proposals.

**Long-Term Ecological Research (LTER)**

National Science Foundation

Contact: Saran Twombly, 703/292-8133, stwombly@nsf.gov

Solicitation number:

NSF currently supports 25 LTER research sites and, through this solicitation, invites proposals to establish three new LTER sites. Research proposals should address questions in one of two broad ecosystems: (2) Arid/semi-arid ecosystems: The Division of Environmental Biology (DEB) anticipates support and management of one new site with a focus on arid or semi-arid ecosystems. The location of the research site for proposals submitted to develop a new arid/semi-arid ecosystem LTER must be within the United States, including its territories and protectorates. (1) Ocean/coastal ocean ecosystems: The Division of Ocean Sciences (OCE) anticipates support and management of two new sites that focus on ocean or coastal ocean ecosystems; defined as ecological systems from the shoreline outward on continental shelves and including the Laurentian Great Lakes, Congressionally defined as interior oceans. Preference will be given to proposals developing a new ocean/coastal ocean ecosystem LTER site located within the United States, including its territories and protectorates, but other locations are not precluded. Budgets for a new arid or semi-arid site should not exceed $900K per year. New marine sites can request up to $1.127M annually over a period of six years.

**Division of Integrative Organismal Systems**

National Science Foundation


Contact: Varies with research interest

Solicitation number: NSF 16-505

The Division of Integrative Organismal Systems (IOS) supports research aimed at understanding why organisms are structured the way they are and function as they do. Proposals should focus on organisms as a fundamental unit of biological organization. Principal Investigators (PIs) are encouraged to apply systems approaches that will lead to conceptual and theoretical insights and predictions about emergent organismal properties. Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, and function, physiological processes, functional morphology, symbioses, interactions of organisms with biotic and abiotic environments, and animal behavior. Proposals may be submitted to the two tracks described in this solicitation. All investigator-initiated proposals submitted to the Core track of this solicitation must now be invited based on merit review of preliminary proposals. There is a single submission deadline with a limit of 2 preliminary proposals per investigator per year as PI or Co-PI in response to the Core track of this solicitation. Please see the GPG for definition of roles for PI and Co-PI. There are no limits on the number of proposals you can participate on as collaborator. These PI/Co-PI limits do not apply to full proposals submitted to the EDGE track of this solicitation, which has no PI or Co-PI limits on number of proposals submitted. The PI/Co-PI limits apply only to the preliminary proposals submitted to the Core track of this solicitation and do not pertain to proposals submitted in response to other NSF solicitations.
**Origin of Life: A Joint Ideas Lab Activity Between NSF and NASA**

National Science Foundation


Contact: varies

Solicitation number: NSF 16-570

This solicitation describes an Ideas Lab on “Origin of Life.” Ideas Labs are intensive workshops focused on finding innovative solutions to grand challenge problems. The ultimate aim of this Ideas Lab organized by the Directorates for Biological Sciences (BIO) and Geosciences (GEO) at the National Science Foundation (NSF), and the Astrobiology Program at the National Aeronautics and Space Administration is to facilitate the generation and execution of innovative research projects aimed at identifying and funding potentially transformative research to address grand challenge questions in the origin of life. The primary aim of this Ideas Lab is to foster the development of a theoretical framework that encompasses the “metabolism first” and “RNA first” theories for the origin of life by stimulating creative thinking and new research on the earliest events leading to life on early Earth. Understanding plausible pathways for the origin of life will contribute directly to our understanding of the indispensable properties of life on Earth and inform our search for life on other worlds. 5 to 10 awards will be made with up to $8,000,000 will be available for US researchers in FY 2017 for successful proposals through the Ideas Lab, pending availability of funds and compelling proposals.

**Division of Integrative Organismal Systems**

National Science Foundation


Contact: varies with research intent

Solicitation number: NSF 16-505

This program supports research aimed at understanding why organisms are structured the way they are and function as they do. Proposals should focus on organisms as a fundamental unit of biological organization. Principal Investigators (PIs) are encouraged to apply systems approaches that will lead to conceptual and theoretical insights and predictions about emergent organismal properties. Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, and function, physiological processes, functional morphology, symbioses, interactions of organisms with biotic and abiotic environments, and animal behavior. Proposals are welcomed in all of the core scientific program areas supported by the Division of Integrative Organismal Systems. Proposals may be submitted to the two tracks described in this solicitation: (1) the Core Track with four clusters (Behavioral Systems Cluster, Developmental Systems Cluster, Neural Systems Cluster, and Physiological and Structural Systems Cluster) and (2) the EDGE Track, which supports projects from individual investigators, small groups of collaborators, or larger collaborative teams who aim to develop functional genomic tools and infrastructure for manipulating genes in diverse organisms. The estimated budget and average award size/duration are subject to availability of funds and the quality of proposals received.

**Innovative Technology Experiences for Students and Teachers (ITEST)**

National Science Foundation, Education and Human Resources (EHR)


Contact: 703/292-8628, DRLITEST@nsf.gov

Solicitation number: NSF 15-599

The ITEST program supports projects that will advance understanding of how to foster increased levels of interest and readiness among students for occupations in science, technology, engineering, and mathematics (STEM), and related fields such as information and communications technologies (ICT). The program seeks to enrich the formal and informal learning experiences of PreK-12 students by supporting projects that: a) increase awareness among students of STEM-related occupations; b) motivate students to pursue appropriate education pathways for STEM-related occupations; and/or c) provide students with technology-rich experiences that develop disciplinary-based knowledge and practices, or promote critical thinking, reasoning skills, or communication skills needed for entering STEM workforce sectors. The ITEST program supports these efforts through two types of research and development projects: (1) Strategies projects that address the initial design, development, and implementation of innovative technology-related interventions, and (2) SPrEaD (Successful Project Expansion and Dissemination) projects that support the further examination of interventions that have demonstrated evidence of impact. Approximately 15-20 Strategies awards with durations up to three years and total budgets up to $1.2M each will be made; and approximately 5-10 SPrEaD awards with durations of three to five years and total budgets up to $2M each will be made.
Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)

National Science Foundation


Contact: Almadena Chtchelkanova, 703/292-8910, achtchel@nsf.gov

Solicitation number: NSF 16-565

The program's mission is to promote the progress of computer and information science and engineering research and education, and advance the development and use of cyberinfrastructure across the science and engineering enterprise; to promote understanding of the principles and uses of advanced computer, communications, and information systems in service to society; and to contribute to universal, transparent, and affordable participation in an information-based society. CISE supports ambitious long-term research and research infrastructure projects across the many sub-fields of computing as well as cyberinfrastructure for all areas of science and engineering; contributes to the education and training of all computing professionals; and more broadly informs the preparation of a US workforce with computing and computational competencies essential to success in an increasingly competitive global market. The goal of this program is to contribute to the growth and development of future generations of scientists and engineers who will dedicate their careers to advancing research and education in the areas that CISE funds.

8/10/2016  Proposal

International Research Experiences for Students (IRES)

National Science Foundation


Contact: Maija Kukla, 703/292-8710, IRES@nsf.gov

Solicitation number: NSF 12-551

The program supports development of globally-engaged U.S. science and engineering students capable of performing in an international research environment at the forefront of science and engineering. The IRES program supports active research participation by students enrolled as undergraduates or graduate students in any of the areas of research funded by the National Science Foundation. Estimated program budget, number of awards and average award size/duration are subject to the quality of proposals and availability of funds.

8/16/2016  Full Proposal

Campus Cyberinfrastructure - Data, Networking, and Innovation Program

National Science Foundation


Contact: Kevin Thompson, 703/292-4220, CCDNIQueries@nsf.gov

Solicitation number: NSF 16-567

This program invests in campus-level data and networking infrastructure and integration activities tied to achieving higher levels of performance, reliability and predictability for science applications and distributed research projects. Science-driven requirements are the primary motivation for any proposed activity. CC*DNI awards will be made in seven areas: 1) Data Driven Multi-Campus/Multi-Institution Model Implementation awards will be supported at up to $3M total for up to 4 years; 2) Cyber Team awards will be supported at up to $1.5M total for up to 3 years; 3) Data Driven Networking Infrastructure for the Campus and Researcher awards will be supported at up to $500K total for up to 2 years; 4) Network Design and Implementation for Small Institutions awards will be supported at up to $400K total for up to 2 years; 5) Network Integration and Applied Innovation awards will be supported at up to $1M total for up to 2 years; 6) Campus Computing awards will be supported at up to $500K for up to 3 years; and 7) Innovative Integrated Storage Resources awards will be supported at up to $200K for up to 2 years. Awards vary based on field of interest.
Research Experiences for Undergraduates (REU)

National Science Foundation, Cross-Directorate


Contact: http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp

Solicitation number: NSF 13-542

This program supports active research participation by undergraduate students in any of the areas of research funded by NSF. This solicitation features two mechanisms for support of student research: 1) REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. 2) REU Supplements may be requested for ongoing NSF-funded research projects or may be included as a component of proposals for new or renewal NSF grants or cooperative agreements. Students do not apply to NSF to participate in REU activities. Students apply directly to REU Sites or to NSF-funded investigators who receive REU Supplements. Three years is the typical duration for REU Site awards in most NSF directorates; however, a duration of up to five years may be allowed in some cases. The typical REU Site hosts 8-10 students per year. The typical funding amount is $70K-$120K per year.

Developing a National Research Infrastructure for Neuroscience (NeuroNex)

National Science Foundation


Solicitation number: NSF 16-569

The goal of this solicitation is to foster the development and dissemination of (1) innovative research resources, instrumentation, and neurotechnologies, and (2) theoretical frameworks for understanding brain function across organizational levels, scales of analysis, and/or a wider range of species, including humans. This interdisciplinary program is one element of NSF’s broader effort directed at Understanding the Brain, a multi-year activity that includes NSF’s participation in the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative (http://www.nsf.gov/brain/) and the phased approach to develop a national research infrastructure for neuroscience as outlined in the Dear Colleague Letter NSF16-047. NSF envisions a connected portfolio of transformative, integrative projects that create synergistic links across investigators and communities, yielding novel ways of tackling the challenges of understanding the brain in action and in context. This program solicits proposals that will develop and disseminate innovative neurotechnologies and/or theoretical frameworks that will transform our understanding of the linkages between neural activity and cognition and behavior across different systems, environments, and species, while also providing an avenue for widespread dissemination of these technologies and theoretical frameworks as well as broad training opportunities. The typical award size is expected to range from $500K to $2M/year, depending on the project size and scope and the availability of funds. Awards are expected to be three to five years in duration.
Private/Nonprofit Agencies

Ongoing

**Surdna Foundation Grants**

Surdna Foundation

[http://www.surdna.org/what-we-fund/funding-overview.html](http://www.surdna.org/what-we-fund/funding-overview.html)

Contact: 212/557-0010, questions@surdna.org

Solicitation number:

The Surdna Foundation seeks to foster sustainable communities by making grants in the areas of: Sustainable Environments, with the goal of overhauling the country’s low performing infrastructure, much of it outdated and crumbling, with a new approach that will foster healthier, sustainable, and just communities; Strong Local Economies, with the objective supporting the development of robust and sustainable economies that include a diversity of businesses and access to quality jobs; and Thriving Cultures, with the purpose of supporting efforts to encourage teens to explore the arts, involve artists in community development projects and foster the growth and success of local artists as economic engines and agents for social change. Organizations are eligible for a maximum of three consecutive years of funding. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

**Smith Richardson Foundation Grants**

Smith Richardson Foundation


Contact: Varies with research interest

Solicitation number:

The two principal grant-making programs are: the International Security and Foreign Policy Program, with the objective of assisting the U.S. policy community in developing effective national security strategies and foreign policies, and the Domestic Public Policy Program, which supports projects that will help the public and policy makers understand and address critical challenges facing the United States. Requests for grants of $50K or less are reviewed on an ongoing basis. Requests for grants greater than $50K and for multi-year grant support are made at regular board meetings. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

**Asia Responsive Grants**

Henry Luce Foundation

[http://www.hluce.org/asiarespongrant.aspx](http://www.hluce.org/asiarespongrant.aspx)

Contact: 212/489-7700, hlf1@hluce.org

Solicitation number:

These grants provide opportunities to improve understanding between the United States and the Asia-Pacific region. They typically support research, create new scholarly and public resources, or promote the exchange of ideas and information between Americans and Asians. These grants are limited to work in the humanities and social sciences concerned with Northeast and Southeast Asia, typically for longer-term programs or projects that respond to the needs and priorities of the Asian studies field and benefit a wide range of scholars and institutions. Requests for funding may be submitted at any time during the year, beginning with a brief letter of inquiry. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
**PepsiCo Grants**

Pepsi Inc.

http://www.pepsico.com/Purpose/Global-Citizenship/Strategic-Grants

Contact: 914/253-2000, pepsico.foundation@pepsi.com

Solicitation number:

PepsiCo is committed to advancing objectives related to education, health and wellness, diversity and inclusion, and thought leadership. In advancing these objectives, PepsiCo provides support to approved organizations on an equal-access basis. Applicants seeking a grant for less than $100K must first submit a brief Letter of Interest. Requests are evaluated on a rolling basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

---

**Mellon Foundation Grants**

The Andrew W. Mellon Foundation

https://mellon.org/programs/

Contact: Varies with research interest

Solicitation number:

The foundation supports grantees within five defined program areas: Higher Education and Scholarship; Scholarly Communications; Arts and Cultural Heritage; International Higher Education and Strategic Projects; and Diversity. The Foundation is committed to identifying the best ideas, and the ablest intellectual leaders in its areas of interest, as well as making certain that the leaders of the institutions that it supports are both exceptional and fully behind the proposed work. Funding varies with project scope and interested researchers are asked to submit letters of inquiry to the appropriate program. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

---

**National Geographic Society Waitt Grants**

National Geographic Society


Contact: waitt@ngs.org

Solicitation number:

Grants are made for exploratory fieldwork that holds promise for new breakthroughs in the natural and social sciences. Applications are processed as they are received and awarded quickly to allow researchers to take advantage of immediate opportunities. About 100 grants of $5K to $15K are awarded annually. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

---

**Public Welfare Grants**

Public Welfare Foundation

http://www.publicwelfare.org/grants-process/

Contact: 202/965-1800, info@publicwelfare.org

Solicitation number:

The Foundation supports efforts to advance justice and opportunity for people in need. The Foundation looks for strategic points where its funds can make a significant difference and improve lives through policy change and system reform. The three program areas of focus are: Criminal Justice, Juvenile Justice and Workers' Rights. Though letters of inquiry may be submitted at any time, applicants should plan ahead. It takes up to one month after receiving a letter of inquiry to determine whether an invitation will be sent to submit a full proposal. Full proposals are reviewed in July, November, and March. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Committee for Research and Exploration Grant

National Geographic Society

http://www.nationalgeographic.com/field/grants-programs/cre-application/

Contact: cre@ngs.org

Solicitation number:

The National Geographic Society awards grants for scientific field research and exploration with both a geographical dimension and relevance to other scientific fields. Applications are generally limited to the following disciplines: anthropology, archaeology, astronomy, biology, botany, geography, geology, oceanography, paleontology, and zoology. The committee is emphasizing multidisciplinary projects that address environmental issues. Most grant amounts range from $15K to $20K and are given for one year’s research. Approximately 250 grants are awarded per year. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

FSSS Grants-in-Aid Program

The Foundation for the Scientific Study of Sexuality (FSSS)

http://www.sexscience.org/honors/fsss_grants_in_aid_program/

Contact: aletk001@umn.edu

Solicitation number:

This program provides up to $1K per grant to support scientific sexuality research in areas not likely to receive support from other sources. The money may be used for either a small project that can be completed with the help of the grant or as part of a larger study that might ultimately be funded from other sources. The competition is open to all professionals conducting research on human sexuality. Proposals involving uniquely timely research opportunities, new investigators, volunteer research teams, and actual, not pilot, projects are especially encouraged. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Waitt Foundation Grants

Waitt Foundation

http://waittfoundation.org/grant-guidelines

Contact: 858/551-4400

Solicitation number:

The Waitt Foundation supports research with the potential for widespread benefit to humanity. Areas of interest are: Ocean Conservation; Scientific Innovation; Exploration and Discovery; and Community Building. In each of these areas, the Foundation looks for strategies to create tangible, measurable benefits. Of interest are proposals that test new approaches to problem-solving, as well as projects that have been successfully tested and are ready to go full scale. If a preliminary grant request falls within the current giving guidelines and initiatives, an invitation may be extended to submit a full grant proposal. There is a $100K minimum for all grant requests. Multi-year proposals will be considered. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Michelson Grants in Reproductive Biology

Found Animals Foundation

http://michelson.foundanimals.org/michelson-grants

Contact: MichelsonPrize@foundanimals.org

Solicitation number:

Multiple multi-year grants are available for research in pursuit of non-surgical sterilization products or technologies for use on dogs and cats. Investigators are required to submit a brief letter of intent containing: a proposed approach for developing a single dose non-surgical sterilant; the rationale for proposing this approach; and an overview of required research. The Foundation recommends that work described in proposals not exceed three years’ duration and $250K per year. If the letter of intent is approved, investigators will be invited to submit a full grant application. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Energy Foundation Grants
The Energy Foundation
http://www.ef.org/apply-for-a-grant/
Contact: 415/561-6700, energyfund@ef.org
Solicitation number:
The Energy Foundation awards grants and takes direct initiatives in the electric power, buildings, transportation, and climate sectors in the United States. PIs are encouraged to write a brief letter of inquiry describing the proposed project, its purpose, and the amount requested. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Lumina Grants
Lumina Foundation
http://www.luminafoundation.org/grants.html
Contact: Candace Brandt, 317/951-5300
Solicitation number:
Lumina's overarching goal is to increase the higher education attainment rate of the United States to 60 percent by 2025. Lumina supports efforts to increase awareness of the benefits of higher education, improve student access to and preparedness for college, improve student success in college, and increase productivity across the higher education system. Grants vary in size by their scope. The median size of a grant is approximately $250K. The usual duration for a grant is one to three years. Unsolicited inquiries are reviewed until September, and selected applicants will be invited to send in a full proposal. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Lannan Foundation Grants
Lannan Foundation
http://www.lannan.org/lf/about/grant-guidelines/
Contact: 505/986-8160, info@lannan.org
Solicitation number:
Lannan Foundation is a family foundation dedicated to cultural freedom, diversity and creativity through projects which support exceptional contemporary artists and writers, as well as inspired Native activists in rural indigenous communities. The Foundation supports this mission by making grants to nonprofit organizations in the areas of contemporary visual art, literature, indigenous communities, and cultural freedom. Interested applicants are encouraged to contact a program director before submitting a letter of inquiry. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Mathers Grants
The G. Harold & Leila Y. Mathers Charitable Foundation
http://www.mathersfoundation.org/policies.html
Contact: 914/242-0465, admin@mathersfoundation.org
Solicitation number:
The foundation is primarily interested in supporting fundamental basic research in the life sciences. Support is provided for specific projects from established researchers at top universities and independent research institutions within the United States. Formal requests will be either discouraged or invited based on specific detailed queries sent by mail, and are processed when received. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Conservation Trust Grant
National Geographic Society
Contact: conservationtrust@ngs.org
Solicitation number:
The objective of the Conservation Trust is to support conservation activities around the world as they fit within the mission of the National Geographic Society. The trust will fund projects that contribute significantly to the preservation and sustainable use of the Earth’s biological, cultural, and historical resources. Applicants are not expected to have PhDs or other advanced degrees. However, applicants must provide a record of prior research or conservation action as it pertains to the proposed project. While grant amounts vary greatly, most range from $15K to $20K. Pre-applications are accepted throughout the year. Applications are submitted by invitation only. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Environment Program
The William and Flora Hewlett Foundation
http://www.hewlett.org/programs/environment-program/
Contact: 650/234-4500
Solicitation number:
The Environment Program supports projects with goals to: conserve the Western United States and Canada for wildlife and people; slow global climate change by reducing greenhouse gas emissions; ensure that the US energy supply is clean and consumption is efficient; and address environmental problems that disproportionately affect disadvantaged communities in the San Francisco Bay Area. The Foundation accepts unsolicited letters of inquiry for its Western Conservation Program and its Energy and Climate Program. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Pollock-Krasner Grants
The Pollock-Krasner Foundation, Inc.
http://www.pkf.org/grant.html
Contact: 212/517-5400, grantapplication@pkf.org
Solicitation number:
The dual criteria for grants are recognizable artistic merit and demonstrable financial need, whether professional, personal or both. The Foundation’s mission is to aid, internationally, those individuals who have worked as professional artists over a significant period of time. The Foundation welcomes, throughout the year, applications from visual artists who are painters, sculptors and artists who work on paper, including printmakers. There are no deadlines. Grants are intended for a one-year period of time. The size of the grant ranges from $5K to $30K. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Funding for Readings and Workshops
Poets and Writers
http://www.pw.org/content/funding_readingsworkshops
Contact: 310/481-7195
Solicitation number:
Poets & Writers provides fees to writers who give readings or conduct writing workshops. Each year, our Readings/Workshops program supports hundreds of writers participating in events in large cities and small towns throughout New York and California. Grants for readings or spoken word performances range from $50 to $350. Grants for workshops range from $100 to $200 per session. Applicants are encouraged to apply more than eight weeks in advance of the event. Grants are awarded on a rolling basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Mott Foundation Grants
The Charles Stewart Mott Foundation
http://www.mott.org/grantseeker.aspx
Contact:
Solicitation number:
The Charles Stewart Mott Foundation supports efforts in civil society, the environment, and pathways out of poverty. The median grant size is in the $100K range. The majority of grants are between $15K and $250K annually. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Swiss International Short Visits
Swiss National Science Foundation
Contact: international@snf.ch
Solicitation number:
The International Short Visits of the SNSF allow for researchers working in Switzerland to go abroad or for researchers from elsewhere to come to Switzerland. The visits can last between one week and three months and are limited to one person (the visiting fellow) going to one institute (the host institute). Both the visiting fellow and one person from the host institute (the host) are co-applicants of the proposal. The SNSF pays lump sums contributing solely to travel (one round trip) and living expenses of the visiting fellow. The submission of an application is possible at any time, but must be deposited at least two months before the grant is due to start.

Humanities Program Grants
The Gladys Krieble Delmas Foundation
http://delmas.org/programs/
Contact: 212/687-0011, info@delmas.org
Solicitation number:
The Foundation intends to further the humanities along a broad front, supporting projects which address the concerns of the historical studia humanitatis: a humanistic education rooted in the great traditions of the past; the formation of human beings according to cultural, moral, and aesthetic ideals derived from that past; and the ongoing debate over how these ideals may best be conceived and realized. Programs in the following areas are eligible: history; archaeology; literature; languages, both classical and modern; philosophy; ethics; comparative religion; the history; criticism, and theory of the arts; and those aspects of the social sciences which share the content and methods of humanistic disciplines. Inquiries are reviewed on an ongoing basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Brain and Behavior Research Grants
Brain & Behavior Research Foundation
http://bbrfoundation.org/narsad-grants-and-prizes
Contact: grants@bbrfoundation.org
Solicitation number:
These grants are awarded to basic and/or clinical investigators. The NARSAD Young Investigator Grant supports scientists at the advanced post-doctoral or assistant professor (or equivalent) level. Grants are up to $60K over a two-year period, or $30K per year. The NARSAD Independent Investigator Grant supports scientists at the associate professor (or equivalent) level. Grants are up to $100K over a two-year period, or $50K per year. The NARSAD Distinguished Investigator Grant supports scientists at the full professor (or equivalent) level. Grants are up to $100K for one year. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
CASIS Unsolicited Proposals

Center for the Advancement of Science in Space

http://www.iss-casis.org/Opportunities/UnsolicitedProposals.aspx

Contact: ideas@iss-casis.org

Solicitation number:

The International Space Station U.S. National Laboratory supports investigations across a broad spectrum of basic and applied research. As manager of this research platform, CASIS regularly provides solicitation opportunities in the life, physical, materials and observational sciences. However, CASIS also welcomes unsolicited proposals for research and product development that might be suitable for the National Lab. The CASIS mission is to fully utilize the National Lab, enabling cutting-edge research on station from every corner of the country. CASIS evaluates unsolicited proposals on a regular basis for scientific and economic merit and potential impact. If you have not yet secured funding for your proposed project, please note that proposals receiving high evaluation scores from this review may qualify for funding assistance from our implementation partners, and CASIS may facilitate matching of funds. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Thriving Cultures Program

Surdna Foundation

http://www.surdna.org/what-we-fund/thriving-cultures.html

Contact: 212/557-0010, grants@surdna.org

Solicitation number:

Culture helps people connect over time, inviting them to build and sustain the vibrant communities they call home. Thriving cultures honor and celebrate the artistic impulse as part of community behavior and as a way to strengthen community identity and cohesion. The Surdna Foundation believes that cultural organizations, programs and projects often provide the opportunity for exploration of values and can act as catalysts for the building of just, sustainable communities. At their best, they contribute to fair access to social goods such as rights, opportunities and dignity. Currently, Surdna’s Thriving Cultures Program will accept letters of inquiry in three lines of work: 1) Teens’ Artistic Advancement, 2) Artists Engaging in Social Change, and 3) Community Driven Design. The anticipated grant size ranges from $35K to $80K annually, with duration ranging from one-to-three years. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Environmental Management Participation Program for the U.S. Army Environmental Command (USAEC)

Oak Ridge Institute for Science and Education (ORISE)

http://see.orau.org/ProgramDescription.aspx?Program=10056

Contact: Kim Myers, 410306-9205, kim.myers@orau.org

Solicitation number:

The Army Environmental Commands mission is to lead and execute Army cleanup and environmental quality programs, providing technical expertise to enable Soldier readiness and sustainable military communities. Through the ORISE Environmental Management Participation Program, opportunities exist to participate in the following areas: environmental projects involving cultural and natural resources, restoration, compliance, conservation, pollution prevention, validation, demonstration, technology transfer, quality assurance and quality control, training, information management and reporting, and related programs. Appointments are made up to one year, full-time or part-time and are renewable up to a total of four years full-time participation for postgraduates and renewable up to a total of five years full-time participation for postdoctorates. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
**Fulbright Specialist Program**

Council for International Exchange of Scholars

http://www.cies.org/specialists/

Contact: Margo Cunniffe, 202/686-6243, mcunniffe@iie.org

Solicitation number:

The Fulbright Specialist Program (FSP) promotes linkages between U.S. academics and professionals and their counterparts at host institutions overseas. The program is designed to award grants to qualified U.S. faculty and professionals, in select disciplines, to engage in short-term collaborative 2 to 6 week projects at host institutions in over 100 countries worldwide. International travel costs and a stipend are funded by the U.S. Department of State Bureau of Educational and Cultural Affairs. Participating host institutions cover grantee in-country expenses or provide in-kind services. Project activities focus on strengthening and supporting the development needs of host institutions abroad and do not fund personal or clinical medical research and related projects involving patient contact. Eligible activities include short-term lecturing, conducting seminars, teacher training, special conferences or workshops, as well as collaborating on curriculum planning, institutional and/or faculty development. U.S. faculty and professionals apply to join a Roster of Specialists for a 5 year term. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

**Sundance Documentary Fund**

Sundance Institute

http://www.sundance.org/programs/documentary-film

Contact: dfp@sundance.org

Solicitation number:

The Sundance Documentary Fund provides grants to filmmakers worldwide for projects that display: artful and innovative storytelling, contemporary relevance, originality and feasibility, the potential to reach and connect with its intended audience. Development grants provide funds of up to $20K. There is no reel required with an application, but clips, teasers, trailers, or images are highly encouraged. A previous work sample is required. Production/Post-Production grants provide up to $50K to fund projects offering approximately 10 or more minutes of edited material for the project being proposed. The reel should convey the narrative and aesthetic approach for the final film. A previous sample work must also be included with the application. Audience Engagement grants provide up to $20K to previously granted projects funding for strategic audience and community engagement campaigns. Additional opportunities by nomination. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

**Humanities Research Projects**

Gerda Hengel Foundation

http://www.gerda-henkel-stiftung.de/research_grants

Contact:

Solicitation number:

The grants for research projects involve, depending on the type of project, the assumption of costs for personnel, travel, materials and/or other costs. The applicants must be actively involved in the research work of the project. It is possible to apply for financing for your own post at a research establishment. The precondition: you have successfully completed your Ph.D. and afterwards have at least five years professional experience working in an academic field. Project participants can also be financed in the form of a research scholarship. As part of a research project, the costs incurred of visiting (foreign) scholars can also be financed. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Research Grants for PhD Candidates
Horowitz Foundation for Social Policy
http://www.horowitz-foundation.org/grant-info/
Contact: info@horowitz-foundation.org
Solicitation number:
The Foundation makes targeted grants for work in all major areas of the social sciences, including anthropology, area studies, economics, political science, psychology, sociology, and urban studies, as well as newer areas such as evaluation research. Preference is given to projects that address contemporary issues in the social sciences and issues of policy relevance. Candidates may propose new projects or they may solicit support for research in progress, including final work on a dissertation, supplementing research funds for a work in progress, or travel funds. Grants reach up to $7.5K. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Practitioner Bellagio Residency
Rockefeller Foundation
http://www.rockefellerfoundation.org/bellagio-center/residency-program/practitioner-residency
Contact: 212/869-8500
Solicitation number:
The Bellagio Residency program offers academic, artists, thought leaders, policymakers, and practitioners a setting conducive to goal-oriented work and the opportunity to establish new connections with fellow residents from a stimulating array of disciplines and geographies. The Bellagio Center community generates new knowledge to solve some of the most complex issues facing our world and creates art that inspires reflection and understanding on global and social issues. Residencies last between two to four weeks. We are interested in practitioner applicants whose work contributes to the well-being of humankind and/or connects with the Rockefeller Foundation’s issue areas of Advance Health, Revalue Ecosystems, Secure Livelihoods, and Transform Cities. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Open Society Fellowship
Open Society Foundations
http://www.opensocietyfoundations.org/grants/open-society-fellowship
Contact: OSFellows@opensocietyfoundations.org
Solicitation number:
The Open Society Fellowship supports individuals pursuing innovative and unconventional approaches to fundamental open society challenges. The fellowship funds work that will enrich public understanding of those challenges and stimulate far-reaching and probing conversations within the Open Society Foundations and in the world. A fellowship project might identify a problem that has not previously been recognized, develop new policy ideas to address familiar problems, or offer a new advocacy strategy. Project themes should cut across at least two areas of interest to the Open Society Foundations. Among these are human rights, government transparency, access to information and to justice, and the promotion of civil society and social inclusion. Full-time fellows may receive up to a $100K stipend.

Global Research Outreach (GRO) Program
Samsung
http://www.sait.samsung.co.kr/saithome/Page.do?method=main&pagePath=01_about/&pageName=gro_overview
Contact: gro.usa@samsung.com
Solicitation number:
The SAMSUNG Global Research Outreach (GRO) Program seeks applications that propose novel research ideas and to work with our R&D teams to foster technological innovation. This has resulted in actively collaborative relationships with over 100 leading universities worldwide. Selected GRO applicants will receive financial support for their proposed project, up to USD $100,000 per year. This funding may be renewed for up to three years, based on measured annual research outcomes and necessity for further research partnership determined by SAMSUNG.
Ongoing

**Targeted Grants in Mathematics and Physical Sciences**
Simons Foundation
https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/targeted-grants-in-mps/
Contact: Elizabeth Roy, 212-524-6966, mps@simonsfoundation.org

**Solicitation number:**
The program is intended to support high-risk projects of exceptional promise and scientific importance on a case-by-case basis. A typical Targeted Grant in MPS provides funding for up to five years. The funding provided is flexible and based on the type of support requested in the proposal. Expenses for experiments, equipment, or computations, as well as for personnel and travel, are allowable.

Ongoing

**Advancing Wellness Grants Program**
The California Wellness Foundation
http://www.calwellness.org/how_to_apply/

**Contact:**

**Solicitation number:**
The Advancing Wellness grants program includes four grantmaking portfolios: (1) Bridging the Gaps in Access and Quality Care; (2) Promoting Healthy and Safe Neighborhoods; (3) Expanding Education and Employment Pathways; and (4) Opportunity Fund. The establishment of these portfolios is grounded in research on the social determinants of health, which states that where people live and work, their race or ethnicity, and their income can impact their health and wellness. The desire is to help level the playing field so that everyone has access to good-paying jobs, safe neighborhoods and quality health care services. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

7/1/2016  Application

**Damon Runyon-Rachleff Innovation Award**
Damon Runyon Cancer Research Foundation
https://www.damonrunyon.org/form-scientists/application-guidelines/innovation

**Contact:** 212/455-0520, awards@damonrunyon.org

**Solicitation number:**
This award is designed to provide support for the next generation of exceptionally creative thinkers with “high-risk/high-reward” ideas that have the potential to significantly impact our understanding of and/or approaches to the prevention, diagnosis or treatment of cancer. The Innovation Award is specifically designed to provide funding to extraordinary early career researchers who have an innovative new idea but lack sufficient preliminary data to obtain traditional funding. It is not designed to fund incremental advances. The research supported by the award must be novel, exceptionally creative and, if successful, have the strong potential for high impact in the cancer field. Awards are made to institutions for support of the Damon Runyon-Rachleff Innovation Investigators. All awards are approved by the Board of Directors of the Damon Runyon Cancer Research Foundation acting upon the recommendation of the Innovation Award Committee. The Stage 1 award will be for two years, $150K per year ($300K total) with the opportunity for up to two additional years of funding (up to four years total for $600K). Stage 2 support for years three and four will be granted to those awardees who demonstrate progress on their proposed research during years one and two of the award.

7/1/2016  Agency Nomination

**Pathway to Stop Diabetes - Limited Submission**
American Diabetes Association
http://professional.diabetes.org/meetings/pathway-stop-diabetes%C2%AE

**Contact:**

**Solicitation number:**
Pathway to Stop Diabetes will provide crucial support to individuals focusing on innovative ideas and transformational approaches that will lead to ground-breaking discoveries in diabetes prevention, treatment and cures. This program will consider applications directed toward topics relevant to the prevention, treatment and cure of all diabetes types (type 1, type 2 and gestational), diabetes-related disease states (obesity, pre-diabetes, and other insulin resistant states) and diabetes complications. The program intends to attract individuals with a broad range of expertise in various science and technology disciplines, including medicine, biology, chemistry, engineering, mathematics and physics to the field of diabetes research. Pathway awards provide up to $1.625 million per award in combined salary and project support, for a maximum of 7 years.
**William T. Grant Scholars Program - Limited Submission**

William T. Grant Foundation

[http://wtgrantfoundation.org/grants/william-t-grant-scholars-program](http://wtgrantfoundation.org/grants/william-t-grant-scholars-program)

Contact: 212/752-0071, info@wtgrantfdn.org

Solicitation number:

The William T. Grant Scholars Program is for early-career researchers in the social, behavioral, and health sciences. Scholars are encouraged 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 five-year research plans that foster their growth in those areas. Potential Scholars should have a promising track record of conducting high-quality research, but want to pursue a significant shift in their trajectories as researchers. This program focuses on youth ages 5 - 25, and funds research that increases understanding of:

1) programs, policies, and practices that reduce inequality in youth outcomes, and
2) strategies to improve the use of research evidence in ways that benefit youth.

Scholars received up to $350k distributed over 5 years.

---

**Inclusive Excellence - 2018 Undergraduate Science Education Grants - Limited Submission**

Howard Hughes Medical Institute


Contact:

Solicitation number:

The Howard Hughes Medical Institute announces a new competition for science education grants to colleges and universities. The goal of this initiative is to help institutions build their capacity to effectively engage all students in science throughout their undergraduate years, especially those who come to college via non traditional pathways.

Through this initiative, HHMI will support colleges and universities that commit to measurably increase their infrastructure, resources, and expertise to involve undergraduate students in science, resulting in expanded access to excellence for all students. Our long-term aim is for successful strategies pioneered by the grantee institutions to serve as models to be adapted and adopted by other institutions.

The new competition will be open to US colleges and universities that award the baccalaureate degree in the natural sciences and are fully accredited, not-for-profit, four-year institutions. It will exclude the 40 universities awarded 2014 HHMI grants.

---

**Investigators in the Pathogenesis of Infectious Disease - Limited Submission**

Burroughs Wellcome Fund


Contact: Jean Kramarik, 919/991-5122, jkramarik@bwfund.org

Solicitation number:

Five-year awards provide $500K for accomplished investigators at the assistant professor level to study pathogenesis, with a focus on the intersection of human and microbial biology. The program is intended to shed light on the overarching issues of how human hosts handle infectious challenge. The awards are intended to give recipients the freedom and flexibility to pursue new avenues of inquiry and higher-risk research projects that hold potential for advancing significantly the biochemical, pharmacological, immunological, and molecular biological understanding of how infectious agents and the human body interact.

Research support, which is under the control of the grantee, may be used flexibly for items such as consumable supplies, equipment, publishing costs, travel to scientific meetings, and laboratory personnel working with the grantee. Candidates must have an established record of independent research and hold a tenure-track position as an assistant professor or equivalent (at the time of application) at a degree-granting institution. OR has not received any notices of intent. Contact funding@research.ucsb.edu if you are interested in submitting.
Research Associateship Programs

National Academy of Sciences

http://sites.nationalacademies.org/PGA/RAP/PGA_050491

Contact: 202/334-2760, rap@nas.edu

Solicitation number:

The National Research Council provides Research Associateships at participating federal laboratories and research organizations to outstanding scientists and engineers at the postdoctoral and senior level. Applicants select an appropriate laboratory and submit a research plan that relates to the specific opportunity at the sponsoring lab. Selected associates receive a stipend and usually spend a year as a guest investigator. Note that not all sponsors participate in all four review deadlines. Applicants should refer to the specific information for the laboratory to which they are applying. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

8/5/2016 Full Proposal (by invitation)

Core Funding Programs

The Michael J. Fox Foundation for Parkinson's Research

http://www.michaeljfox.org/research_fundingOpportunities.cfm

Contact: Mark Frasier, 212/509-0995 x244, mfrasier@michaeljfox.org

Solicitation number:

The foundation works to accelerate promising research toward breakthroughs for Parkinson's patients. While the foundation's strong emphasis is on funding translational and clinical research, they also support high-risk/high-reward discovery work. In addition to funding, awardees benefit from working with their internal research staff and broad network of scientific and industry advisors. The foundation supports three core funding opportunities: 1) Target Advancement; 2) Therapeutic Development; and 3) Outcome Measures. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

8/12/2016 Full Proposal

System Level Design

Semiconductor Research Corporation

https://www.src.org/compete/s201608/

Contact: LaTanya Holmes, latanya.holmes@src.org

Solicitation number:

This FOA is soliciting white papers in the area of System Level Design. Only a very limited number of white papers will receive eventual funding. This call, issued to universities worldwide, may be addressed by an individual investigator or a research team. Our selection process is divided into two stages. Interested parties are requested to submit a brief 1-page white paper, which should identify what can be done in a two-year period beginning December 1, 2016, and what could be done additionally if a third year is requested. (Please specify the third-year goals separately.) Two-year-only white papers are also acceptable. A successfully selected white paper will result in an invitation to submit a full proposal, with recommendation that the proposal will be written for 2 years or 3 years. These proposals will be further down-selected for research contracts. The number and size of the contracts awarded will be determined by the availability of funds, and by the number of high-quality proposals. Contracts awarded normally support 1-2 graduate students. The funding level requested will be a factor in the selection process.

UC and State of California
Resident Scholars Program

UC MEXUS

http://www.ucmexus.ucr.edu/funding/resident-scholars-program.html

Contact: Wendy DeBoer, 951/827-7339, wendy.deboer@ucr.edu

Solicitation number:

The UC MEXUS offers an academic residency program for researchers, scholars and artists at critical junctures in their academic careers. The Institute offers a place for reflection and writing as well as opportunities to interact with the University community. Resident scholars must be self-supporting, as the program does not provide salary. The program offers three types of residencies: 1) Graduate students, 2) recent university graduates, and 3) visiting faculty. Up to four concurrent residencies are available at a time. Please consult UC MEXUS to determine if any positions remain open.

8/4/2016 Full Proposal (UC-NL CRT)
9/8/2016 Full Proposal (UC-NL GF)

UC Laboratory Fees Research Program

University of California

http://ucop.edu/research-initiatives/programs/lab-fees/application-information.html

Contact: UCRI@ucop.edu

Solicitation number:

This program supports two funding opportunities: 1) Targeted UC Multicampus-National Lab Collaborative Research and Training (UC-NL CRT) Awards which require proposals to focus on collaborative research and training activities in one of the following three targeted areas identified for high-impact research realized through UC-national lab synergy: Biological applications of advanced computing, High energy density science, and Mesoscale materials science; and 2) UC-National Lab In-Residence Graduate Fellowships (UC-NL GF) which apply to UC graduate students who meet certain criteria (see full FOA).