COTTAGE HOSPITAL-UCSB SPECIAL RESEARCH AWARD


The Santa Barbara Cottage Hospital Research Committee, in cooperation with the University of California, Santa Barbara Office of Research, is pleased to issue this Request for Proposals for the 2014 Cottage Hospital - UCSB Special Research Award. This award for research with biomedical or biopsychological implications will be granted to the UCSB investigator who, in the Research Committee's determination, most closely meets the evaluation criteria as set out for this program. Special consideration will be given to junior investigators. The Research Committee will consider with particular interest those proposals with clear medical significance, and that actively involve medical professionals associated with Cottage Health System (although this is not a requirement for this award).

The total award of $25,000 will include matching funds from the Santa Barbara Cottage Hospital Research Grant Program and UCSB Office of Research. As with all small grants from the Research Grant Program to University of California investigators, there are no indirect costs associated with these funds. Applications must be received by Wednesday, October 1, 2014. The award will be funded during the fall of 2014. For application instructions, please contact Betsy Lazarine, Ph.D., Research Administrator at Cottage Hospital at 569-7436 or blazarin@sbch.org, or Meredith Murr, Ph.D., Director, Research Development, Office of Research, UCSB at 893-3925, or murr@research.ucsb.edu.

Deadline: October 1, 2014

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 - NSF Graduate Research Fellowship Program - Invitation for Reviewers

NSF invites disciplinary and interdisciplinary scientists and engineers, and other professionals with science, technology, engineering and mathematics (STEM) graduate education expertise, to serve as reviewers for the Graduate Research Fellowship Program (GRFP). GRFP supports fellowships in all STEM discipline areas including STEM education research. Service as a GRFP reviewer is an excellent opportunity for individuals to apply their research and career expertise to help identify future leaders in the fields of science and engineering. Reviewers gain experience that enhances their ability to mentor students on preparing GRFP applications and to write effective letters of recommendation. If you would like to be considered as a panelist for the GRFP panels, please go to https://panelists.nsfgrfp.org to register in the panelist system before August 15 to be considered for the 2015 GRFP review.

Dear Colleague Letter - Joint NSF/ENG and AFOSR Funding Opportunity - EAGERs to Energize Innovative Research and Development on Dynamic Data Systems
The Engineering Directorate at the National Science Foundation (NSF), in collaboration with the Air Force Office of Scientific Research (AFOSR), seek Early Concept Grants for Exploratory Research (EAGER) proposals with the potential to transform our ability to understand, manage and control the operation of complex, multi-entity natural or engineered systems, through innovative approaches that consider new dimensions in Big Data, Big Computing, and a symbiotic combination of Data and Computing. NSF’s and AFOSR’s interests lie in highly innovative projects in their early stages that address unique challenges and identify fruitful directions for analytics to transform engineering and scientific practice across various relevant disciplines and scales. The joint interests of both AFOSR and NSF include novel research in technical areas fostered by the DDDAS (Dynamic Data Driven Applications Systems) Program.

Dear Colleague Letter: US-China Collaborative Research in Environmental Sustainability


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. The U.S. and China have the two largest economies on Earth and also have important engineering, technology, business and trade relationships with each other. Both nations face significant environmental sustainability challenges, for example in water and energy, urban sustainability, and manufacturing. Fundamental research is needed to provide the foundational knowledge for addressing these 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. Sustainable Manufacturing

Every proposal must include the participation of researchers from at least one U.S. institution and at least one China institution.

Dear Colleague Letter - International Collaboration in the Division of Materials Research


This letter is to provide additional guidance to the community regarding international research and education. This communication follows a Dear Colleague Letter (NSF 13-115) concerning the “Temporary Suspension of Division of Materials Research (DMR) Computational and Data-Driven Materials Research (CDMR) Program and Materials World Network (MWN) Program in Fiscal Year 2014; Sunset of the DMR International Materials Institutes (IMI) Program.” Since announcing the temporary suspension of the Materials World Network (MWN) Program and the sunset of the International Materials Institutes (IMI) Program, DMR has been soliciting internal input from NSF program officers and external input from counterpart funding agencies and the DMR awardee community regarding international research and education. Based on this consultative process and data analysis, DMR plans to suspend the Materials World Network (MWN) Program and instead pilot alternative mechanisms for supporting the international objectives of the materials research community. In the interim, DMR has established a website (https://www.nsf.gov/mps/dmr/international.jsp) to provide the community with additional information about priorities and opportunities for funding of international research and education. DMR recognizes and supports the importance of global engagement for the U.S. materials research community, as well as the significance of such engagement to the advancement of science and to the education of the next generation of materials researchers.
Dear Colleague Letter - International Activities within the Physics Division - Potential International Co-Review

The study of Physics is a global pursuit. While this is generally recognized in research in particle physics, where hundreds of scientists work in extended world-wide collaborations on mutual areas of emphasis, it is less well-known that valuable international scientific collaborations frequently take place on a much smaller scale - including at the individual investigator level. The Physics Division (PHY) is well aware of this potential for productive collaborations and encourages interactions of PHY-supported scientists with scientific colleagues around the world. The Physics Division has no special program specifically dedicated to fostering international collaborations, instead regarding these as part of the normal way of doing business. Thus, each disciplinary program within the Division handles these collaborations in its own way and as appropriate to the field. The role of the international component is reviewed as part of the normal review process, and funding may be provided through the normal research award to support the US-based researchers' costs. The level of support can vary - from the inclusion of a small amount of funding for international travel for less-formal activities, to a larger fraction of the award for funding in support of research on special facilities outside the US that offer unique scientific opportunities.

CAMPUS HONORS AND AWARDS

Tresa Pollock, professor and chair of materials, has been selected to receive the 2015 Acta Materialia Hollomon Award in Materials & Society. The award is in recognition of outstanding contributions to interactions between materials technology and societal interests, and/or contributions to materials technology and science that have had a major impact on society.

Matt Jackson, associate professor of earth science, was awarded the American Geophysical Union's Hisashi Kuno Award for outstanding contributions to volcanology, geochemistry & petrology.

TRAINING FOR ADMINISTRATORS IN RESEARCH (STAR)

The Sponsored Projects Training for Administrators in Research (STAR) program is a comprehensive certificated training program developed by the UCSB Office of Research to meet UCSB's research administration needs. The program's goals are to improve campus understanding of regulations, policies, and procedures; to strengthen internal controls; and to provide staff members with access to key resources and contacts.

The program is designed for employees with duties and responsibilities related to contract and grant administration. Participants are welcome to take one or several courses in areas of particular interest to them-or they may opt to earn a certificate in the STAR program.

The certificate program offers 11 required courses offered from September through May. To earn a certificate, you must take all 11 classes. Staff members who wish to earn a STAR Program Certificate must complete the coursework in one or two years from the date they begin the course series. For more information, including a complete list of courses and registration information, visit http://www.research.ucsb.edu/spo/contracts-and-grants-liaison-resources/star-class-schedule/

Overview of Contract and Grant Administration (2 hours)
This introductory course provides an overview of the administration of sponsored projects at UCSB and lays the foundation for later courses. Topics covered are campus research rankings, the Office of Research infrastructure and role, shared responsibilities, the general legal principles and policies that guide research activities, resources to help locate and secure
extramural funding, and tools, such as the Office of Research website.

**Offered:** Wednesday, September 24, 2014; 9:00am-11:00am  
**Instructors:** Cora Diaz & Barbara Walker  
**Location:** Marine Science Building Auditorium (MSB1302)

**Cost Principles and Cost Accounting Standards (3 hours)**
This course covers the primary federal regulation governing what costs may be included in proposal budgets and charged to contracts and grants: OMB Circulars A-21 and A-110.

**Offered:** Wednesday, October 22, 2014; 9:00am-12:00noon  
**Instructors:** Jim Corkill and Tyler Clark  
**Location:** Marine Science Building Auditorium (MSB 1302)

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**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 [http://www.research.ucsb.edu/funding/LimitedSubmission.aspx](http://www.research.ucsb.edu/funding/LimitedSubmission.aspx).

Programs with upcoming campus deadlines include:
- **NEH Summer Stipends 2015**—Campus Application due to IHC 08/20/2014; Agency deadline 09/30/2014
- **NSF Partnerships for International Research and Education (PIRE) 2015**—Campus Notice of Intent 08/26/2014; Preliminary Proposal 10/21/2014; Full Proposal 5/15/2015

Programs with open campus spots (please contact funding@research.ucsb.edu if you are interested in submitting to one of these programs):
- **NIH Bridges to the Doctorate**—Agency deadline 09/25/2014
- **NIH NEI Center Core Grant for Vision Research (P30)**—Agency deadline 09/30/2014
- **NSF Theory Institute in Atomic, Molecular and Optical Physics**—Agency deadline 12/08/2014
Contract and Grant Awards
July 2014

Data provided by Office of Research. "()" represent investigators’ home departments when those are different from the administering unit.


Archuleta, R.J. (Earth Science), Simms, A. (Earth Science), Earth Research Institute, $23,200, University of Southern California, “SCEC4 Participation, Project L: Collaborative Research: Documentation of Tsunami Deposits in the Carpinteria and Goleta Slough Estuaries: A signal of Great Earthquakes on the Pitas Point Thrust.”


Bamieh, B.A., Mechanical Engineering, $300,000, National Science Foundation, “Control of ThermoAcoustic Phenomena with Applications to Novel Energy Conversion Devices.”


Bowers, J.E., Electrical & Computer Engineering, $183,000, National Science Foundation, “Collaborative Research: Hybrid organic-inorganic thermoelectric materials.”

Brezinski, M.A. (Ecology, Evolution & Marine Biology), Marine Science Institute, $147,455, National Science Foundation, “UC Santa Barbara Marine Laboratory SCUBA Compressor Improvement.”

Bueno Cachadina, M.I., Bartlett, P.J., Mathematics, $352,000, National Science Foundation, “REU Site: UCSB Mathematics Summer Research Program for Undergraduates.”

Bultan, T., Computer Science, $499,888, National Science Foundation, “SHF: Small: Data Model Verification for Web Applications.”

Chabinyc, M., Materials, $364,446, National Science Foundation, “Thermopower in Organic Molecular Solids.”

Davis, F.W. (Donald Bren School of Environmental Science & Management), Marine Science Institute (NCEAS), $250,000, Nature Conservancy, “Science and Nature for People - TNC.”

Dudley, T.L., Marine Science Institute, $1,496, UC MEXUS, “Riparian restoration and invasive species control in the Lower Colorado River of northern Mexico.”

Feliciano, E., Student Health Service, $3,000, Santa Barbara County, “Tobacco Cessation for Special Populations.”

Fisher, M., Physics, $435,000, National Science Foundation, “Quantum Entanglement in Many Body Systems.”


Johnson, L.V., Neuroscience Research Institute, $45,000, UC Riverside, “Development of low-molecular mass biomarkers of complement activation and testing in a macular degeneration model.”

Lenihan, H.S. (Donald Bren School of Environmental Science & Management), Urbisci, L.C. (Earth Research Institute), Marine Science Institute, $96,249, UC Sea Grant College Program, “Developing a new ecosystem-based management approach: using ecosystem models to calculate a better estimate of population scale for single-species models.”

Leonardi, P.M., Technology Management Program, $413,796, National Science Foundation, “III: Large: Collaborative Research: Achieving Development Goals with Information Technology.”


Maar, H.R. (History), Lichtenstein, N.N. (History), Interdisciplinary Humanities Center, $18,000, UC San Diego, “The Challenge of Peace: The Reagan Administration, Public Opinion, and the Movement to Freeze the Arms Race.”


Mishra, U.K., Electrical & Computer Engineering, $200,000, Office Of Naval Research (ONR), “N-polar AlGaN/HEMTs using deep recess technologies to mitigate dispersion without field plates and AlGaN gate capping structures to enhance breakdown.”

Moskovits, M. (Chemistry & Biochemistry), Institute for Collaborative Biotechnologies, $50,000, UC Cancer Research Coordinating Committee, “Surface Enhanced Raman Spectroscopy (SERS) for the detection of canine lower urinary tract neoplasia.”


Plaxco, K.W., Chemistry & Biochemistry, $1,384,393, National Institute of Health, “A new approach to quantitative, point-of-care serology.”


Quirk, M. (Department of Counseling, Clinical, and School Psychology), Felix, E. (Department of Counseling, Clinical, and School Psychology), Gevirtz Research Institute, $31,958, Santa Barbara County Education Office, “Evaluation of THRIVE Santa Barbara County Services.”


Schooler, J., Psychological & Brain Sciences, $418,512, John E. Fetzer Memorial Trust, “Deciphering the Decline Effect: A Prospective Multilaboratory Replication Study.”

Schreiber, K.J. (Anthropology), Kerchusky, S.L. (Anthropology), Institute for Social, Behavioral, & Economic Research, $25,006, National Science Foundation, “Doctoral Dissertations Improvement Grant: Local Socioeconomic and Political Development in a Context of Imperial Expansion, Nasca-Wari Interactions at the site of Zorropa, Peru.”

Segalman, R., Chemical Engineering, $278,245, National Science Foundation, “Crystalline Conjugated Block Copolymer Self-Assembly.”

Seshadri, R. (Materials), Materials Research Laboratory, $440,000, National Science Foundation, “Functional Complex Palladium Oxides.”

Siegel, D.A. (Geography), Earth Research Institute, $840,001, NASA Shared Services Center (NSSC), “Plumes and Blooms: A Multi-Decadal Coastal Bio-Optical Time-series and Retrospective Data Analysis.”

Simms, A. (Earth Science), Earth Research Institute, $19,508, USDI Geological Survey, “Geologic Controls on Karst in Western Oklahoma.”

Squires, T., Chemical Engineering, $150,000, Aramco Services Company, “Gradient-Harvesting Agents and Autonomous Reservoir Agents.”

Stemmer, S., Balents, L. (Kavli Institute for Theoretical Physics), Materials, $1,500,000, Army Research(AROD), “Quantum Critical Behavior in Oxide Structures.”


Valentine, M.T. (Mechanical Engineering), California Nanosystems Institute, $380,000, National Science Foundation, “Design of tough resilient gels using adhesive rigid-rod polymers.”

Valentine, D.L. (Earth Science), Marine Science Institute, $231,724, University Of Rochester, “Investigating the Chemical and Isotopic Kinetics of Aerobic Methane Oxidation.”

Van der Ven, A., Materials, $300,000, National Science Foundation, “Elucidating the thermodynamic and kinetic properties of high temperature materials with first-principles statistical mechanics.”


Yang, X., Mathematics, $293,266, National Science Foundation, “Kinetic approaches for multi-scale problems in quantum chemistry and seismology.”

Young, H.S. (Ecology, Evolution & Marine Biology), Marine Science Institute, $13,980, National Geographic Society, “Impacts of fishing on facilitated foraging of seabirds in the Central Tropical Forest.”
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 Defense (DOD)

### Ongoing

**U.S. Army Engineer Research and Development Center BAA 2013**

U.S. Army Corps of Engineers

[http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=213834](http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=213834)

Contact: Varies with research interest

Solicitation number: W912HZ-13-BAA-01

The U.S. Army Engineer Research and Development Center (ERDC) supports conferences and symposia in special areas of science that bring experts together to discuss recent research or educational findings or to expose other researchers or advanced graduate students to new research and educational techniques. The ERDC encourages the convening, in the United States, of major international conferences, symposia, and assemblies of international alliances. Conference support proposals should be submitted a minimum of six months prior to the date of the conference.

### Ongoing

**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) Solider/Personnel Issues.

**Amyotrophic Lateral Sclerosis Therapeutic Idea Award**

DoD Congressionally Directed Medical Research Programs


Contact: 301/682-5507, help@cdmrp.org

Solicitation number: W81XWH-14-ALSRP-TIA

The TIA is designed to promote new ideas that are still in the early stages of development with the potential to yield highly impactful data and new avenues of investigation for novel therapeutics for ALS treatment. This mechanism supports conceptually innovative, high-risk/high-reward research that could ultimately lead to critical discoveries or major advancement in ALS therapeutics. Proposed research projects should include a well-formulated, testable hypothesis based on strong scientific rationale that holds translational potential to improve ALS treatment and/or advances a novel treatment modality. The maximum allowable direct costs for the entire two year period of performance are $400K plus indirect costs.
FY14 Amyotrophic Lateral Sclerosis Therapeutic Development Award

DoD Congressionally Directed Medical Research Programs


Contact: 301/682-5507, help@eBRAP.org

Solicitation number: W81XWH-14-ALSRP-TDA

The goal of the ALSRP is to contribute to a cure for ALS by funding innovative preclinical research to develop new treatments for ALS. The Therapeutic Development Award supports the preclinical assessment of therapeutics for ALS. The proposed studies are expected to be empirical in nature and product-driven but may have a hypothesis-driven approach, provided the focus is on therapeutics. It is anticipated that the agents and/or data generated from these awards will lead to the advancement of new therapies for ALS. Applications must focus on one or more of these areas to be considered for funding. Applications that do not focus on at least one of the following areas will be administratively withdrawn: 1) Development and/or validation of high-throughput screens to define targets with therapeutic potential or to identify lead agent candidates for ALS treatment and be an asset for the ALS research community; 2) Development, modification, and/or validation of preclinical model systems in order to assess lead compounds and potential therapeutics by pharmacological and/or pharmacokinetic testing. Such models would also serve as improved tools for the ALS research community; DoD FY14 ALSRP Therapeutic Development Award 4; 3) Development and optimization of pharmacologic agents through Adsorption, Distribution, Metabolism, Excretion (ADME) studies, and toxicology testing, including Investigational New Drug (IND)-enabling pharmacology/toxicology testing; 4) Formulation and stability studies, design and implementation of full-scale, pilot current Good Manufacturing Practice (cGMP) production of therapeutics and/or delivery systems for use in advanced preclinical and initial clinical trials; and 5) Development of pharmacologic agents up to IND submission to initiate Phase I clinical trials after the award’s completion. The maximum allowable direct costs for the entire period of performance are $1.5M, for a maximum duration of three years. Cost sharing is encouraged for large equipment purchases, but not a requirement for program eligibility.

DoD Bone Marrow Failure Idea Development Award

DoD Congressionally Directed Medical Research Programs

http://www.grants.gov/web/grants/view-opportunity.html?oppId=253173

Contact: 301/682-5507, help@eBRAP.org

Solicitation number: W81XWH-14-BMFRP-IDA

The vision of the BMFRP is to understand and cure BMF diseases. Toward that end, the program challenges the scientific community to design innovative research approaches based on sound scientific evidence that will advance the understanding of inherited and acquired BMF diseases to improve the health of individuals, with the ultimate goals of prevention and cure. Proposed research studies should have a high probability of revealing new avenues of investigation. Research projects should include a well-formulated, testable hypothesis based on strong scientific rationale and a developed and well-articulated research approach. The maximum allowable direct costs for the entire three year period of performance are $400K plus indirect costs.
Lung Cancer Research Program (LCRP) Career Development Award

The goal of this FOA is to eradicate deaths from lung cancer to better the health and welfare of military service members, Veterans, their families, other military beneficiaries, and the American public. As such, the LCRP will support and integrate research from multiple disciplines for risk assessment, prevention, early detection, diagnosis, and treatment for the control and cure of lung cancer. The Career Development Award supports early-career, independent investigators to conduct impactful research under the mentorship of an experienced lung cancer researcher as an opportunity to obtain the funding, mentoring, and experience necessary for productive, independent careers at the forefront of lung cancer research. This award is intended to support impactful research projects with an emphasis on discovery. Submissions from and partnerships with investigators at Military Treatment Facilities (MTFs), military labs, the Department of Veterans Affairs (VA) Medical Centers and research laboratories are strongly encouraged. Applications for the FY14 LCRP Idea Development Award must address at least one of the seven Areas of Emphasis listed below:

1. Identify or develop noninvasive or minimally invasive tools to improve detection of the initial stages of lung cancer;
2. Identify, develop, and/or build upon already existing tools for screening or early detection of lung cancer. Screening may include, but is not limited to, computed tomography scans, X-rays, imaging biomarkers, genetics/genomics/proteomics/metabolomics/transcriptomics, and assessment of risk factors;
3. Understand the molecular mechanisms of progression to clinically significant lung cancer;
4. Understand the molecular mechanisms that lead to various subtypes of lung cancer;
5. Identify innovative strategies for prevention and treatment of early and/or localized lung cancer;
6. Understand predictive and prognostic markers to identify responders and nonresponders;
7. Understand susceptibility or resistance to treatment.

The maximum period of performance is two years, and the maximum allowable direct costs for the entire period of performance are $240K plus indirect costs.

Lung Cancer Research Program (LCRP) Idea Development Award

The goal of this FOA is to eradicate deaths from lung cancer to better the health and welfare of military service members, Veterans, their families, other military beneficiaries, and the American public. As such, the LCRP will support and integrate research from multiple disciplines for risk assessment, prevention, early detection, diagnosis, and treatment for the control and cure of lung cancer. The Idea Development Award promotes new ideas that are still in the early stages of development and have the potential to yield impactful data and new avenues of investigation. This award supports conceptually innovative, high-risk/high-reward research that could lead to critical discoveries or major advancements that will accelerate progress toward eradicating deaths from lung cancer. Applications should include a well-formulated, testable hypothesis based on strong scientific rationale. Submissions from and partnerships with investigators at Military Treatment Facilities (MTFs), military labs, the Department of Veterans Affairs (VA) Medical Centers and research laboratories are strongly encouraged. Applications for the FY14 LCRP Idea Development Award must address at least one of the seven Areas of Emphasis listed below:

1. Identify or develop noninvasive or minimally invasive tools to improve detection of the initial stages of lung cancer;
2. Identify, develop, and/or build upon already existing tools for screening or early detection of lung cancer. Screening may include, but is not limited to, computed tomography scans, X-rays, imaging biomarkers, genetics/genomics/proteomics/metabolomics/transcriptomics, and assessment of risk factors;
3. Understand the molecular mechanisms of progression to clinically significant lung cancer;
4. Understand the molecular mechanisms that lead to various subtypes of lung cancer;
5. Identify innovative strategies for prevention and treatment of early and/or localized lung cancer;
6. Understand predictive and prognostic markers to identify responders and nonresponders;
7. Understand susceptibility or resistance to treatment.

The maximum period of performance is two years, and the maximum allowable direct costs for the entire period of performance are $350K plus indirect costs.
**Fundamental Research to Counter Weapons of Mass Destruction**

Department of Defense (DoD)

http://pivot.cos.com/funding_opps/128622

Contact: HDTRA1-09-14-FRCWMD@dtra.mil

Solicitation number: HDTRA1-09-14-FRCWMD-BAA

This announcement solicits white papers for long-term challenges in specific fundamental areas of research that offer a significant contribution to the current body of knowledge, understanding of phenomena and observable facts, significantly advance revolutionary technology, new concepts for technology application, and may have impact on future Counter Weapons of Mass Destruction (C-WMD) capabilities. There are six thrust areas: 1) Science of WMD Sensing and Recognition; 2) Cognitive, Information and Network Science; 3) Science for Protection; 4) Science to Defeat WMD; 5) Science to Secure WMDs; and 6) Cooperative Counter WMD Research with Global Partners. Awards are typically for a period of three years with two possible option years. 15-30 individual awards are anticipated each year. Single Investigator Awards will average $150K per year. Single Grant/Multiple Investigator/Multidisciplinary Awards will average $300K per year.

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**National Aeronautics and Space Administration (NASA)**

Ongoing

**C.23 Planetary Major Equipment**

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=301993/solicitationId=%7B48D582D6-FF5B-B624-FF5B-B624-

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

Solicitation number: NNH12ZDA001N-PME

This program element allows proposals for new or upgraded analytical, computational, telescopic, and other instrumentation required by investigations sponsored by the Planetary Science Research Program’s science research programs as offered in this solicitation. Instrumentation purchases or upgrades that may be requested through the PME program are to be of a substantial nature; that is, over $40K. Proposals that seek to design, develop, test, or evaluate new instruments that are intended for commercial sale will be rejected without review. The expected annual program budget is $1.4M for 5-9 awards. The maximum award period is one year.

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**ROSES 2014: Earth Science U.S. Participating Investigator**

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={113613D8-7AD9-77C1-5972-6EC0D55D2304}

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

Solicitation number: NNH14ZDA001N-ESUSP

NASA solicits proposals for U.S. Participating Investigator (USPI) investigations on a non-NASA 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 non-NASA space mission may be as a Co-Investigator for an instrument, experiment, or technology demonstration that is being built and flown by a sponsor agency other than NASA. The maximum duration of a project period under this solicitation is five years.
ROSES 2014: Nancy Grace Roman Technology Fellowships

National Aeronautics and Space Administration


Contact: Billy Lightsey, 202/306-1896, billy.lightsey@nasa.gov

Solicitation number: NNH14ZDA001N-RTF

The goals of the Nancy Grace Roman Technology Fellowship (RTF) program in Astrophysics are to give early career researchers the opportunity to develop the skills necessary to lead astrophysics flight instruments/projects and become principal investigators (PIs) of future astrophysics missions; to develop innovative technologies for space astrophysics that have the potential to enable major scientific breakthroughs; and to foster new talent by putting early-career instrument builders on a trajectory towards long-term positions. The maximum duration of awards is two years for a new study phase; a four-year Development Effort would augment the original award and extend the period of performance; start-up funds for a current fellow would augment the original award without extending the period of performance.

ROSES 2014: Heliophysics Supporting Research

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={7BAC8B96-31E6-E140-F373-E56B3ADF055A}

Contact: Varies with research interest

Solicitation number: NNH14ZDA001N-HSR

Science investigations are solicited with this Heliophysics SR program. The investigations that will be of highest priority to the program will be those that (a) use data from current or historical NASA spacecraft (b) together with theory and/or numerical simulation to (c) address one of the four Heliophysics Decadal Survey goals (listed below). Investigations that address some but not all of the aspects of the highest priority investigations (a-c) are also solicited and will be supported as resources allow. The four high level science goals from the Heliophysics Decadal survey are: 1) Determine the origins of the Sun’s activity and predict the variations in the space environment; 2) Determine the dynamics and coupling of Earth’s magnetosphere, ionosphere, and atmosphere and their response to solar and terrestrial inputs; 3) Determine the interaction of the Sun with the solar system and the interstellar medium; 4) Discover and characterize fundamental processes that occur both within the heliosphere and throughout the universe. The maximum duration of a project period under this solicitation is three years.

ROSES 2014: Planetary Data Archiving, Restoration, and Tools

National Aeronautics and Space Administration


Contact: Michael Kelley, 202/358-0607, michael.s.kelley@nasa.gov

Solicitation number: NNH14ZDA001N-PDART

The Planetary Data Archiving, Restoration and Tools (PDART) solicits proposals to generate higher-order data products, archive and restore data sets or products, create or consolidate reference databases, digitize data, and develop or validate software tools. The objective of this program element is to increase the amount and quality of archived data 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 or modeling may be performed to validate any generated products, this program element does not accept proposals in which the main focus is a scientific investigation. For all types of proposals, it is expected that the products of selected proposals will be made available to the scientific community via the NASA PDS or equivalent archive. All proposals will be evaluated on the perceived impact of the new data products or tools on future planetary science research and exploration. That maximum duration of this award is three years.

The Planetary Instrument Concepts for the Advancement of Solar System observations (PICASSO) Program supports the development of spacecraft-based instrument systems that show promise for use in future planetary missions. The goal of the program is to conduct planetary and astrobiology science instrument feasibility studies, concept formation, proof of concept instruments, and advanced component technology development to the point where they may be proposed in response to the Maturation of Instruments for Solar System Exploration (MatISSE) Program, C. 13 of ROSES. Therefore, the proposed instrument system or advanced components must address specific scientific objectives of likely future planetary science missions. The PICASSO Program is intended to enable timely and efficient technology infusion into the MatISSE Program and eventually into flight missions. As such, the technology readiness level (TRL) that PICASSO supports is 1-4. It is the responsibility of the proposer to justify the entry and exit level TRL of the proposed technology. This program will permit appropriate funding to be applied at this early stage to develop and demonstrate key and enabling new technologies for planetary science missions, such as instrument feasibility studies, concept formulation, proof of concept, laboratory demonstrations, and advanced component technology development. The maximum duration of a project period solicited under this FOA is three years.

Contact: Janice Buckner, 202/358-0183, janice.l.buckner@nasa.gov
Solicitation number: NNH14ZDA001N-PICASSO

9/15/2014  Notice of Intent
11/14/2014  Full Proposal

ROSES 2014: Science Team for the OCO Missions

The primary goal of both Orbiting Carbon Observatory (OCO) missions is to make global observations of column abundances of atmospheric CO2 to better understand the processes that control this important greenhouse gas. NASA is on schedule to relaunch the Orbiting Carbon Observatory. The current plans are for the first of these directed missions, OCO-2, to launch in early July 2014, with nearly the same configuration as the originally planned OCO mission, which was lost in a launch failure in 2009. Part of the direction to the OCO-2 project was to build a flight spare instrument that, if not needed for the OCO-2 mission, would be made available for a mission of opportunity on a NASA selected platform as a successor project to the OCO-2 mission. That mission, OCO-3, calls for the flight spare to be deployed on the International Space Station (ISS) some time in 2017, and is now in development. The OCO-2 project is operating under a schedule allowing the satellite to be launched on July 1, 2014. This science team will stand down during the time when OCO-2 is going through the early science analysis, after the on-orbit commissioning phase of the mission, and the prime mission phase of operation. Hence, most of the desired contributions to OCO-2 will be for expertise and knowledge for appropriate activities related to this phase of the mission. The OCO-3 project will be going through formulation, during the time period of this team and most of the desired contributions to OCO-3 will be appropriate for science activity as the project goes from final design of the observing system on ISS through full system integration. The maximum duration for a project period solicited under this FOA is three years.

Contact: Kenneth Jucks, 202/358-0476, kenneth.w.jucks@nasa.gov
Solicitation number: NNH14ZDA001N-OCO2

9/25/2014  Full Proposal

ROSES 2014: Swift Guest Investigator

The Swift Guest Investigator (GI) Program solicits proposals for basic research relevant to the Swift gamma-ray burst mission. The primary goal of this mission is to determine the origin of gamma-ray bursts (GRBs) and use these bursts to probe the early universe. Swift is also a valuable asset for obtaining multiwavelength images, spectra, and light curves on interesting Targets of Opportunity (ToOs) and other nontransient sources. Project periods for awards will not exceed one year.

Contact: Eleonora Troja, 301/286-0941, eleonora.troja@nasa.gov
Solicitation number:
http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=397751/solicitationId=%7B9624C8AD-5B25-C1CE-
ROSES 2014: Cassini Data Analysis and Participating Scientists

National Aeronautics and Space Administration
http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=397971/solicitationId=%7B640844FC-94E6-D492-D492-4C5026CC25BC%
Contact: Christina Richey, 202/358-2206, HQ-CDAP@mail.nasa.gov
Solicitation number: NNH14ZDA001N-CDAPS

The objective of the Cassini Data Analysis and Participating Scientists (CDAPS) Program is to enhance the scientific return of the Cassini mission by broadening the scientific participation in the analysis and interpretation of the data returned by the mission. A subset of CDAPS selectees will also serve as Participating Scientists, which will further broaden participation in the mission by augmenting the existing science team. This program solicits research proposals to conduct scientific investigations utilizing data obtained by the Cassini and Huygens spacecraft. The maximum duration of a project period solicited under this FOA is three years.

ROSES 2014: Planetary Science and Technology Through Analog Research

National Aeronautics and Space Administration
Contact: Sarah Noble, 202/358-2492, sarah.noble-1@nasa.gov
Solicitation number: NNH14ZDA001N-PSTAR

Planetary Science and Technology Through Analog Research (PSTAR) program solicits proposals for investigations focused on exploring the relevant environments on Earth in order to develop a sound technical and scientific basis to conduct planetary research on other solar system bodies. The PSTAR program is a science-driven exploration program that is expected to result in new science and operational/technological capabilities to enable the next generation of planetary exploration. Proposals must demonstrate fidelity to at least two of the following three objectives: 1) Science; 2) Science Operations; and 3) Technology. The maximum duration of a project period solicited under this FOA is four years.

ROSES 2014: Mars Data Analysis

National Aeronautics and Space Administration
http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={28E683BC-22F3-F1D6-0C1E-15188201287F}
Contact: Mitchell Schulte, 202/358-2127, Mitchell.d.schulte@nasa.gov
Solicitation number: NNH14ZDA001N-MDAP

The objective of the Mars Data Analysis Program (MDAP) 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), and the Mars Science Laboratory (MSL). MDAP broadens scientific participation in the analysis of mission data sets and funds high-priority areas of research that support planning for future Mars missions. MDAP supports scientific investigations of Mars using publicly available (released) data. Where justified to support planning for future Mars missions, investigations that use data derived from other sources (e.g., ground-based radar, Hubble) will also be considered. The maximum duration of a project period solicited under this FOA is four years.
ROSES 2014: Remote Sensing Theory for Earth Science

National Aeronautics and Space Administration


Contact: Lucia Tsaoussi, 202/358-4471, Lucia.S.Tsaoussi@nasa.gov

Solicitation number: NNH14ZDA001N-RST

The objective of the Remote Sensing Theory (RST) program element is to support fundamental scientific advances in remote sensing theory and radiative transfer, including advancement of retrieval algorithms to be used for space-based remote sensing of the Earth’s atmosphere, oceans, biosphere, cryosphere, land surface, and/or Earth interior. Recent theoretical developments in physics, mathematics, and other basic science may be integrated and/or applied to space-based Earth remote sensing. The incorporation of methodologies and techniques developed in other scientific areas, motivated by other sciences and applications (e.g., medical imaging) and/or new or novel application of approaches that can be applied to Earth remote sensing is a particular emphasis of this program. Research to be supported under this program element is expected to address the strengths and weaknesses of the approaches studied by quantifying the associated errors and uncertainties. Specific areas of interest in the previous solicitation are described below, but these are not exclusive nor are they predetermined priorities for this solicitation: 1) Theoretical algorithm advances; 2) Data “fusion;” and 3) Advanced corrections. The maximum duration of a project period solicited under this FOA is three years; proposals of shorter duration are encouraged where appropriate.

National Archives and Records Administration (NARA)

8/27/2014 Application
10/1/2014 Pre-Application (optional)
12/4/2014 Application

FY2015 Publishing Historical Records in Documentary Editions

National Archives and Records Administration


Contact: Lucy Barber, 202/357-5306, alexander.lorch@nara.gov

Solicitation number: CFDA 89.003

The National Historical Publications and Records Commission seeks proposals to publish documentary editions of historical records of national significance. Projects may focus on the papers of major figures from American life or cover broad historical movements in politics, military, business, social reform, the arts, and other aspects of the national experience. The goal of this program is to provide access to and editorial context for the historical documents and records that tell the American story. Applicants may apply for funding for one year, and award amounts may range from $30K to $200K. Cost sharing is required as the Commission ordinarily provides no more than 50 per cent of total project costs.

8/27/2014 Application

FY15 Access to Historical Records

National Archives and Records Administration

http://www.archives.gov/nhprc/announcement/access.html

Contact: Alex Lorch, 202/357-5101, alexander.lorch@nara.gov

Solicitation number: CFDA 89.003

This grant program is designed to support archival repositories in preserving and processing primary source materials. The program emphasizes the creation of online tools that facilitate the public discovery of historical records. The Commission looks to fund projects that undertake one or both of the following activities: 1) Preservation, arrangement, and online description of historical records in all formats; and/or 2) Digital preservation of electronic records and unstable audio and visual formats. After completing arrangement and description activities, applicants may also propose to digitize materials to provide online access to collections. A grant normally is for one or two years and for up to $200K. Cost sharing is required and the Commission will provide up to 50 percent of the total project costs.
FY15 Literacy and Engagement with Historical Records

National Archives and Records Administration

http://www.archives.gov/nhprc/announcement/literacy.html

Contact: Lucy Barber, 202/357-5306, lucy.barber@nara.gov

Solicitation number: LITERACY-201412

The Literacy and Engagement grant program offers support for projects that will result in archives reaching audiences through digital literacy programs and workshops, new tools and applications, and citizen engagement in archival processes. The NHPRC is looking to fund pilot projects in areas that: 1) Develop partnerships among archives, historical records repositories, educational, and community-based institutions to provide educational opportunities for people, particularly students, to develop their digital literacy skills when they find, evaluate, and use primary source documents online. In addition, projects may seek to increase individual understanding of technology operations and concepts so that they can engage in effective personal digital archiving or other types of digital archives curriculum development; 2) Create or develop new online tools and applications, including mobile apps, to enhance public understanding and access to historical records; and 3) Enlist "citizen archivists" in projects to accelerate digitization and online public access to historical records. This may include, but is not limited to, improving crowdsourcing efforts for identifying, tagging, transcribing, annotating, or otherwise enhancing digitized historical records. The NHPRC is looking for projects to experiment with new techniques and methods in these three areas that will provide models for other organizations and that people and institutions can adopt for free. The Commission expects to make up to six grants of between $50K and $150K. Cost sharing is required and the Commission provides no more than 50 percent of total project costs.

Archives Leadership Institute

National Archives and Records Administration

http://www.archives.gov/nhprc/announcement/leadership.html

Contact: Lucy Barber, 202/357-5306, lucy.barber@nara.gov

Solicitation number: LEADERSHIP-201412

The National Historical Publications and Records Commission (NHPRC), a part of the National Archives and Records Administration (NARA), supports projects that promote the preservation and use of America's documentary heritage essential to understanding our democracy, history, and culture. The National Historical Publications and Records Commission seeks proposals from organizations to continue the Archives Leadership Institute. The Archives Leadership Institute seeks to bring to tomorrow's leaders the insights and understanding necessary for increasing public use and appreciation of archives. The NHPRC envisions a minimum of a one-week program that will tailor contemporary best practices in leadership skills to issues specific to archives professionals. The grantee will be responsible for all project phases, from curriculum design and development through administering the program for the attendees it selects. Topics for the Institute may include issues in technology, economics, public policy, and constituent relations, along with practical questions of administration, strategic planning, leading change, and fund raising. In addition, there should be opportunities for participants to develop solutions to the specific needs of their institutions. To cover these topics and needs, Institute faculty should include experts and educators in leadership development and organizational management as well as experienced archival leaders. The maximum award is $225K for up to three years.
NEH Summer Stipends 2015 - Limited Submission

National Endowment for the Humanities

http://www.neh.gov/grants/research/summer-stipends

Contact: 202/606-8200, stipends@neh.gov

Solicitation number:

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. Recipients have produced articles, monographs, books, digital materials, archaeological site reports, translations, editions, or other scholarly resources. Work in the creative arts or performing arts—such as the writing of fiction or poetry, painting, sculpting composing or performing music, acting, directing, and dance—is not eligible.

Summer Stipend recipients may hold other research grants during the tenure of their awards, but they must work full-time on their projects during the two months of their tenure. Summer Stipends normally support work carried out during the summer months. U.S. citizens or foreign nationals who have been living in the United States or its jurisdictions for at least the three years prior to the application deadline are eligible to apply for a Summer Stipend.

Individuals who have held a major fellowship or research grant or its equivalent within the last three academic years prior to the deadline are ineligible. A “major fellowship or research grant” is a postdoctoral research award that provides a stipend of at least $15,000. Sabbaticals and grants from an individual’s own institution and stipends and grants from other sources supporting study and research during the summer are not considered major fellowships. Individuals who have previously received a Summer Stipend may apply to support a new stage in their project. These applications will be judged by the same criteria as other applications. Previous recipients, however, must wait five years from the time they received their award to reapply.

The program welcomes projects that respond to NEH’s Bridging Cultures initiative. Such projects could focus on cultures internationally or within the United States. International projects might seek to enlarge Americans’ understanding of other places and times, as well as other perspectives and intellectual traditions. American projects might explore the great variety of cultural influences on, and myriad subcultures within, American society. These projects might also investigate how Americans have approached and attempted to surmount seemingly unbridgeable cultural divides, or examine the ideals of civility and civic discourse that have informed this quest.

Programming Grants to Accompany NEH on the Road Exhibitions

National Endowment for the Humanities


Contact: 202/606-8269, publicpgms@neh.gov

Solicitation number: 20131231-MR

These grants support ancillary public humanities programs to accompany NEH on the Road traveling exhibitions. Typical formats involve lectures, reading and discussion programs, film discussion programs, Chautauqua presentations by scholars, family programs, exhibition tours, and other appropriate formats for reaching the general public. Successful applicants will be awarded a grant of $1K. The grant period should not exceed three months, including the period of time in which the exhibition is actually on display at the host institution.
NEH & DFG Bilateral Digital Humanities Program
National Endowment for the Humanities
Contact: odh@neh.gov
Solicitation number: 20140925-HG
This program offers support for projects that contribute to developing and implementing digital infrastructures and services for humanities research. These grants provide funding in any of the following areas: 1) developing innovative methods—as well as standards and best practices—for building and merging digital collections that are important to the American and German scholarly community for use in research; 2) developing and implementing generic tools, methods, and techniques for accessing and processing digital resources relevant to humanities research; 3) ensuring the completion and long-term sustainability of existing digital resources (typically in conjunction with a library or archive); 4) creating new digital modes of scholarly communication and publishing that facilitate international cooperation and dissemination of humanities scholarship; and 5) developing models and case studies for effectively managing digital data generated in humanities research projects. Collaboration between U.S. and German partners is a key requirement for this grant category. Each application must be sponsored by at least one eligible German individual or institution, and at least one U.S. institution, and there must be a project director from each country. The partners will collaborate to write a single application package. Awards range from $100K-$350K for up to three years.

National Institutes of Health (NIH)
Ongoing
Understanding and Treating Co-Morbid Conditions in Adolescents with Intellectual and Developmental Disabilities
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
Contact: Mary Lou Oster-Granite, 301/435-6866, mo96o@nih.gov
Solicitation number: PA-11-039
This FOA encourages research project grant applications that propose to focus research upon the factors that impact functioning and quality of life in individuals with intellectual and developmental disabilities (IDD) during adolescence. Budgets for direct costs of up to $500K per year may be requested for a maximum of $2.5M direct costs over a five-year project. The companion FOAs are PA-11-040, which solicits applications under the R03 mechanism, and PA-11-041, which solicits applications under the R21 mechanism.

Ongoing
Research Supplements to Promote Diversity in Health-Related Research
National Institutes of Health, Cross-Institute
http://grants.nih.gov/grants/guide/pa-files/PA-12-149.html
Contact: Varies with research interest
Solicitation number: PA-12-149
NIH and the Centers for Disease Control and Prevention (CDC) hereby notify Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) holding specific types of NIH research grants, listed in the full FOA that funds are available for administrative supplements to improve the diversity of the research workforce by supporting and recruiting students, postdoctorates, and eligible investigators from groups that have been shown to be underrepresented in health-related research. This supplement opportunity is also available to PD(s)/PI(s) of research grants who become disabled and need additional support to accommodate their disability in order to continue to work on the research project. Administrative supplements must support work within the scope of the original project. Applications can be received at any time until the final deadline. The deadline varies with research interest. Direct costs for individual administrative supplements vary from less than $5K to more than $100K depending on the career level of the candidate.
Research Supplements to Promote Re-Entry into Biomedical and Behavioral Research Careers (Admin Supp)
National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-12-150

The Office of Research on Women’s Health (ORWH), participating Institutes and Centers (ICs) of the NIH, and the Office of Dietary Supplements (ODS) announce the continuation of the program for administrative supplements to research grants to support individuals with high potential to re-enter an active research career after an interruption for family responsibilities or other qualifying circumstances. The purpose of these supplements is to encourage such individuals to re-enter research careers within the missions of all the program areas of NIH. This program will provide administrative supplements of up to $10K to existing NIH research grants for the purpose of supporting full-time or part-time research by these individuals to update their existing research skills and knowledge. Due dates vary by awarding IC.

Biophysical and Biomechanical Aspects of Embryonic Development (R01)
National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-207

This FOA encourages applications that propose to advance our knowledge in the area of the physics and mechanics of embryonic development. Applicants must propose hypothesis-driven developmental research with the prospect of gaining new and critical information about tissue mechanics relevant to vertebrate development and understanding the basis for developmental disorders. It should be noted that applications using the NIH R01 grant mechanism will require sufficient preliminary data to substantiate the validity of the proposed research and feasibility of new technologies or tools. The budget may not exceed $500K direct costs per year for a maximum of five years. This FOA runs in parallel with a FOA of similar scientific scope, PAR-13-206, that encourages applications under the NIH Exploratory/Developmental (R21) grant mechanism.

U.S.-India Bilateral Collaborative Research Partnerships (CRP) on Diabetes Research (R21)
National Institutes of Health


Contact: Barbara Linder, 301/594-0021, linderb@mail.nih.gov

Solicitation number: RFA-DK-14-006

This FOA invites Exploratory/Developmental (R21) applications from United States (U.S.)-funded institutions with an Indian institution partner to establish Collaborative Research Partnerships (CRP) to advance science and technology important to understanding, preventing, and treating diabetes and its complications. The U.S.-India Bilateral CRP Program is designed to develop collaborations between scientists and institutions in the United States and India to conduct high quality diabetes research of mutual interest and benefit to both countries while developing the basis for future institutional and individual scientific collaborations. The maximum award for this award is $275K for up to two years.

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-12-086

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.
**Research Education Grants for Statistical and Computational Training in the Genetics of Addiction (R25)**

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


Contact: Beth Babecki, 301/435-0899, bbabecki@nida@mail.nih.gov

Solicitation number: PAR-12-199

The purpose of this FOA is to encourage applications focused on research education in statistical and computational models to address genetics-based problems in addiction. Eligible participants may include undergraduate, graduate, and/or postdoctoral level students and may include both US and non-US citizens. The direct costs are limited to $500K annually for a period of up to five years.

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**Technologies for Healthy Independent Living (R01)**

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-14-118

This FOA encourages applications for research and development of technologies that monitor health or deliver care in a real-time, accessible, effective, and minimally obtrusive way. These systems are expected to integrate, process, analyze, communicate, and present data so that the individuals are engaged and empowered in their own healthcare with reduced burden to care providers. This FOA runs in parallel with PAR-14-119, which solicits applications under the R21 Exploratory/Developmental Grant. The maximum duration of a project period solicited under this FOA is five years.

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**Specialized Programs of Research Excellence (SPOREs) in Human Cancer for Years 2013 and 2014 (P50)**

National Institutes of Health, National Cancer Institute (NCI), National Institute of Dental and Craniofacial Research (NIDCR), National Institute of Child Health and Human Development (NICHD)


Contact: Varies with research interest

Solicitation number: PAR-12-296

This program will fund 5-year P50 SPORE grants to support state-of-the-art investigator-initiated translational research that will contribute to improved prevention, early detection, diagnosis, and treatment of an organ-specific cancer (or a related group of cancers). SPOREs are expected not only to conduct a wide spectrum of research activities, but also to contribute significantly to the development of specialized shared resource core facilities (cores), improved research model systems, and collaborative research projects with other institutions. The research supported through this program must be translational in nature and must always be focused upon knowledge of human biology stemming from research using cellular, molecular, structural, biochemical, and/or genetic experimental approaches with the goal of a translational human endpoint within the 5 year term of the grant. In addition, SPOREs must include both a Developmental Research Program for pilot studies and a Career Development Program to foster careers in organ-based translational science. Applicants may request a maximum of $2.5M total costs per year for up to five years.

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**Dual Purpose with Dual Benefit Research in Biomedicine and Agriculture Using Agriculturally Important Domestic Species**

National Institutes of Health, Cross-Institute, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)


Contact: Varies with research interest

Solicitation number: PAR-13-204

This FOA invites the submission of proposals that utilize agriculturally important domestic species to improve human health through the advancement of basic and translational research deemed highly relevant to both agricultural and biomedical research. This initiative is designed to facilitate and encourage comparative medicine research studies through the careful selection and refinement of farm animal models that mimic human developmental, physiological, and etiological processes to better understand disease origins and improve assisted reproduction efficiencies. It is envisioned that each proposal will address mission-relevant areas of both agencies. Application budgets are not limited but must reflect the actual needs of the proposed project. The maximum project period is five years.
Environmental Contributors to Autism Spectrum Disorders (R01)
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), Nation
Contact: Cindy Lawler, 919/316-4671, lawler@niehs.nih.gov
Solicitation number: PAR-14-203
The purpose of this FOA is to stimulate and foster research to (1) identify environmental contributors to risk and expression of autism spectrum disorders (ASD) and (2) understand how environmental factors impact the underlying biologic processes implicated in ASD. A range of approaches are being encouraged by this FOA, from basic mechanistic studies using in vitro and in vivo model systems to studies that add new data collection activities and/or make use of extant data or biospecimens in existing human studies. Studies that address hypotheses related to the joint contribution of genes and environment are of particular interest. It is anticipated that knowledge gained from the research supported by this FOA will be used to inform public health prevention and intervention strategies. Application budgets are limited to $400K direct costs for each year over a maximum duration of five years. This FOA runs in parallel with a FOA of identical scientific scope, PAR-14-202, that utilizes the R21 Exploratory/Developmental Grant mechanism.

NIMHD Basic and Applied Biomedical Research on Minority Health and Health Disparities (R01)
National Institutes of Health, National Institute on Minority Health and Health Disparities (NIMHD)
Contact: Nishadi Rajapakse, 301/496-4338, chandima.rajapakse@nih.gov
Solicitation number: RFA-MD-14-005
This FOA solicits innovative grant applications on: 1) Biological and genetic research to explore disease mechanisms or pathways that influence health outcomes in minority and health disparity populations; and 2) Clinical and translational research linking basic science discovery with effective treatment or clinical practice. The overall goal of this initiative is to enhance our understanding of fundamental biological mechanisms involved in disease conditions and develop therapies or interventions that can directly or demonstrably contribute to the elimination of health disparities. Total direct costs are limited to $250K per year for up to five years. This FOA runs in parallel with a FOA of identical scientific scope, RFA-MD-14-004, that utilizes the R01 Research Project Grant mechanism.

Dimensional Approaches to Research Classification in Psychiatric Disorders (R01)
National Institutes of Health, National Institute of Mental Health (NIMH)
Contact: Michael Kozak, 301/443-6471, kozakm@mail.nih.gov
Solicitation number: RFA-MH-15-500
This FOA seeks research grant applications designed to develop innovative ways of understanding mental disorders through classifying patients in clinical studies on the basis of experimental research criteria rather than traditional diagnostic categories. This FOA stems from the NIMH Research Domain Criteria (RDoC) project that is intended to further a long-range goal of contributing to diagnostic systems as informed by research on genetics, neuroscience, and behavior. The purpose of this FOA is to encourage applications to study mechanisms that may cut across multiple traditional diagnostic categories. Application budgets are limited to $400K annual direct costs. The maximum project period is five years.
Leveraging a Recovery Act Resource to Accelerate Research on Neurodevelopment (R01)
National Institutes of Health, National Institute of Mental Health (NIMH)
Contact: Shelli Avenevoli, 301/443-8316, avenevos@mail.nih.gov
Solicitation number: RFA-MH-15-400
This FOA aims to stimulate the broader research community to utilize a resource funded through the American Recovery and Reinvestment Act of 2009 (Recovery Act) to generate and evaluate hypotheses about the complex interrelationships and multidirectional influences among genetics, brain maturation, neurocognitive function, and psychiatric symptoms during development. This FOA is a strategic effort to disseminate this data resource, stimulate the broader research community to use the resource, and accelerate research on neurodevelopment and trajectories of risk for mental illness. Secondary goals of this initiative are to foster collaborations among researchers from diverse fields of expertise, enhance diversity of research questions and analytic approaches, advance methods for integration across data modalities and levels of analyses (i.e., imaging, genomics, behavior), and encourage inclusion of early stage investigators among these collaborations. Application budgets are limited to $350K annual direct costs for a maximum project period of three years.

Estimating the Economic Costs of Alzheimer’s Disease and Related Dementias (R01)
National Institutes of Health, National Institute on Aging (NIA)
http://grants.nih.gov/grants/guide/pa-files/PA-12-255.html
Contact: Colin Baker, 301/402-4447, colin.baker@mail.nih.gov
Solicitation number: PA-12-255
This FOA encourages research on the economic costs of Alzheimer’s disease and related dementias, including direct and indirect costs to public and private health care payers, families and other informal caregivers, as well as labor market costs from reduced productivity or labor force participation. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope: 1) PA-12-253, which utilizes the R03 Small Grant Program; and 2) PA-12-254, which utilizes the R21 Exploratory/Developmental Research Grant Award.

HIV Infection of the Central Nervous System (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-14-094
This FOA invites research grant applications focused on defining the pathogenic mechanisms involved in Human Immunodeficiency Virus (HIV)-1 Associated Neurocognitive Disorders (HAND) and identifying therapeutic strategies to treat and prevent the neurobehavioral and neurological effects of HIV-1 on the central nervous system (CNS). Applications ranging from basic research to clinical diagnosis and treatment in domestic and international settings are of interest. Multidisciplinary research teams and collaborative alliances are encouraged but not required. The maximum project period is five years.
Eradication of HIV-1 from Central Nervous System Reservoirs (R01)

National Institutes of Health, Cross-Institute


Contact: Jeymohan Joseph, 301/443-6100, jjeymoha@mail.nih.gov

Solicitation number: PA-14-095

This FOA invites research grant applications to address the problem of HIV-1 persistence focused solely on the central nervous system (CNS) of HIV-infected persons treated with Highly Active Anti-Retroviral Therapy (HAART). This FOA will support innovative research in five areas: (1) basic research to identify and characterize persistent HIV-1 in CNS derived cells such as macrophages, microglia, and/or astrocytes in the setting of suppressive anti-retroviral therapy, with or without substance use; (2) basic research to determine the mechanisms involved in the temporal establishment, maintenance, and resurgence of persistent HIV-1 in the CNS in relationship to the timing of antiretroviral therapy; (3) development of physiologically relevant animal models and CNS-based cellular assays that recapitulate HIV-1 persistence and latency in the presence of effective HAART including effects of chronic substance use; (4) assessment of current and emerging eradication approaches on whether and/or how well they have successfully reactivated persistent HIV from CNS-derived cells such as macrophages, microglia and astrocytes; and (5) assessment of CNS toxicity and adverse impacts of current and emerging eradication strategies. Applications ranging from basic to translational research in domestic and international settings are of interest. Multidisciplinary research teams are encouraged but not required. The maximum period of five years.

NIH Transformative Research Awards (R01)

National Institutes of Health

http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-003.html - Section VII. Agency

Contact: Ravi Basavappa, 301/435-7204, Transformative_Awards@mail.nih.gov

Solicitation number: RFA-RM-14-003

The NIH Transformative Research Awards complement NIH’s traditional, investigator-initiated grant programs by supporting individual scientists or groups of scientists proposing groundbreaking, exceptionally innovative, original and/or unconventional research with the potential to create new scientific paradigms, establish entirely new and improved clinical approaches, or develop transformative technologies. Little or no preliminary data are expected. Projects must clearly demonstrate the potential to produce a major impact in a broad area of biomedical or behavioral research. The maximum project period is up to five years with an award amount that must reflect the needs of the project.

Enriching the Hematology Research Workforce through Short-term Educational Experiences in Emerging Science R

National Institutes of Health


Contact: Traci Heath Mondoro, 301/435-0052, mondorot@nhlbi.nih.gov

Solicitation number: RFA-HL-15-006

The goal of this NHLBI 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 this end, this funding opportunity announcement encourages the development of creative educational activities with an integrated focus on Courses for Skills Development and Research Experiences. This initiative will maximize the scientific value of established research resources by providing an opportunity to acquire advanced targeted scientific tools for the enhancement of a career in the field of blood research. The maximum award is $115K for five years.
NHLBI Systems Biology Collaborations (R01)

National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)
Contact: Pankaj Qasba, 301/435-0050, qasbap@nhlbi.nih.gov
Solicitation number: PAR-12-138

This FOA encourages Research Project Grant (R01) applications from institutions/organizations that propose collaborative systems biology research projects by multi-disciplinary teams to advance our understanding of normal physiology and perturbations associated with heart, lung, blood, and sleep (HLBS) diseases and disorders. Multi-disciplinary expertise across experimental and computational domains is required, and the multi-PI mechanism is allowed, as integration across these domains is a critical element of the proposed research plan. The maximum project period is five years.

Innovative Approaches for the Identification of Mitochondria-Cell Signaling Networks in Response to Environment

National Institutes of Health
Contact: Daniel Shaughnessy, 919/541-2506, shaughn1@niehs.nih.gov
Solicitation number: RFA-ES-14-006

This FOA supports the development of technologies and experimental models to more precisely track signaling between the mitochondria and other cellular processes under environmental stress conditions, including mitochondrial-nuclear signaling with respect to epigenetic regulation, DNA damage response, or response to oxidative stress. This FOA uses the R21/R33 Phased Innovation Award mechanism to develop new technologies and experimental models to elucidate mitochondrial-cell signaling. Technologies developed in the R21 phase may include more sensitive reagents for detection of specific reactive oxygen or nitrogen species, enhanced approaches for metabolic flux analysis, and expanded in vitro or experimental models for identifying alterations in signaling pathways in response to environmental stressors. Successful completion of milestones outlined in the R21 phase will enable investigators to be considered for the R33 phase to conduct additional pilot testing and validation of these technologies using environmental stressors to probe bidirectional communication resulting in either altered cellular programming or mitochondrial function or both. The maximum award for the R21 phase is $275K for up to two years.

Differentiation and Integration of Stem Cells Into Developing or Damaged Tissues (R21)

National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
Contact: Mahua Mukhopadhyay, 301/435-6886, mukhopam@mail.nih.gov
Solicitation number: PAR-13-095

This FOA promotes in vivo studies of stem cells in animal models and in humans (if applicable) to better understand how stem cells function within developing or damaged tissues. The areas of emphasis would include systematically profiling and cataloging changes at genetic and epigenetic levels that take place in stem cells and their microenvironment. The purpose is to gain in-depth knowledge of the mechanisms involved in: progressive differentiation of Embryonic Stem Cells (ESCs) into embryonic lineages, progenitor cells and specialized cell types; adult stem cells/progenitor cells during tissue regeneration and wound healing; and Induced Pluripotent Stem Cells (iPSCs) at the site of injury during stem cell therapy. The research proposed under this announcement can explore approaches and concepts new to this area, development of new technologies, or initial research and development of data upon which significant future research may be built. Direct costs are limited to $275K over a two-year period, with no more than $200K in direct costs allowed in any single year. This FOA runs in parallel with another FOA of identical scientific scope, PAR-13-094, which utilizes the R01 Research Project Grant mechanism.
Early Career Award in Chemistry of Drug Abuse and Addiction (ECHEM)
National Institutes of Health, National Institute on Drug Abuse (NIDA)
Contact: Kristopher Bough, 301/443-9800, boughk@mail.nih.gov
Solicitation number: PAR-13-350
This FOA seeks to facilitate the entry of new-to-NIH investigators into basic chemistry research applied to drug abuse and addiction. There are four research areas of particular interest for this FOA as follows: 1) Development of new and innovative molecular probes/ligands; 2) The development of novel ligands for use in neuroimaging studies of addiction; 3) The application of newer areas of research, and their associated technologies (e.g., genomics, transcriptomics, etc.); and 4) Research projects aimed at isolating, identifying, purifying and characterizing new lipid ligands, receptors, transporters, enzymes, etc. for the cannabinoid, vanilloid or other lipid-based targets. For the R21 award, direct costs are limited to $250K over a two-year period, with a maximum of $200K allowed in any single year. The R33 award will be limited to $250K in direct costs per year; the total project period may not exceed four years.

Human Immunology Project Consortium (U19)
National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)
Contact: Helen Quill, 301/435-4416, hquill@niaid.nih.gov
Solicitation number: RFA-AI-14-007
This FOA on the Human Immunology Project Consortium (HIPC) invites applications from single institutions, or consortia of institutions, to participate in a network of human immunology profiling research groups in the area of non-HIV infectious disease. Applications are sought that propose to study the human immune system (1) during or following infection, (2) before and after vaccination against an infectious disease, and/or (3) before and after administration of an infectious disease vaccine adjuvant that targets innate immune components. The purpose of this FOA is to capitalize on recent advances in immune profiling technologies to measure the diversity and commonalities of human immune responses under a variety of conditions using high-throughput systems biology approaches coupled with detailed clinical phenotyping in well-characterized human cohorts. The long-term goal is to develop molecular signatures that define immune response categories/fingerprints/profiles that correlate with the outcome of infection or vaccination. Application budgets are limited to $2.12M direct costs per year which includes a limit on the budget for the Infrastructure and Opportunity Fund Management core of $120K per year. The maximum project period is five years.

Bioengineering Research Partnerships (BRP) R01
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-14-092
This FOA encourages bioengineering applications that will accelerate the development and adoption of promising tools and technologies that can address important biomedical research problems. The objectives are to establish these tools and technologies as robust, well-characterized solutions that fulfill an unmet need and are capable of enhancing our understanding of life science processes or the practice of medicine. Awards will focus on supporting multidisciplinary teams that apply an integrative, quantitative bioengineering approach to developing these technologies and engage biomedical researchers or clinicians throughout the project. The goal of the program is to support projects that can realize meaningful solutions within 5-10 years. This FOA runs in parallel with FOAs of identical scientific scope, PA-12-284 and PAR-13-137, that utilize the R21 Exploratory/Developmental Grant and R01 Research Project Grant mechanisms.
**NIMH Biobehavioral Research Awards for Innovative New Scientists (NIMH BRAINS) (R01)**

National Institutes of Health


Contact: Kathleen Anderson, 301/443-5944, kanders1@mail.nih.gov

Solicitation number: RFA-MH-15-600

This award is intended to support the research and research career development of outstanding, exceptionally productive scientists who are in the early, formative stages of their careers and who plan to make a long term career commitment to research in specific mission areas of the NIMH. This award seeks to assist these individuals in launching an innovative clinical, translational, basic or services research program that holds the potential to profoundly transform the understanding, diagnosis, treatment, or prevention of mental disorders. The maximum award is $1.625M for up to five years.

**Myalgic Encephalomyelitis & Chronic Fatigue Syndrome - Etiology, Diagnosis, Pathophysiology, and Treatment**

National Institutes of Health


Contact: Varies with research interest

Solicitation number: PAR-12-032

This FOA encourages investigators-initiated applications that propose to examine the etiology, diagnosis, pathophysiology, and treatment of chronic fatigue syndrome (CFS), sometimes referred to as myalgic encephalomyelitis (ME), in diverse groups and across the lifespan. The NIH is particularly interested in funding interdisciplinary research that will enhance our knowledge of the disease process and provide evidence based solutions to improve the diagnosis, treatment, and quality of life of all persons with ME/CFS. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PAR-12-033, which utilizes the R21 Exploratory/Developmental Grant mechanism.

**NINDS Program Project Grant (P01)**

National Institutes of Health, National Institute of Neurological Disorders and Stroke (NINDS)


Contact: Alan Willard, 301/496-9248, aw135y@.nih.gov

Solicitation number: PAR-14-183

This FOA enables submission of program project grant applications that propose to conduct innovative, interactive research to answer significant scientific questions that are important for the mission of NINDS, via a synergistic collaboration between outstanding scientists who might not otherwise collaborate. The program project grant mechanism is designed to support research in which the funding of several interdependent highly meritorious projects as a group offers significant scientific advantages over support of these same projects as individual research grants. The maximum project period for these awards is five years.

**National Research Service Award (NRSA) Institutional Research Training Grant (T32)**

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-14-015

This FOA will award eligible, domestic institutions to enhance predoctoral and postdoctoral research training, including short-term research training, and help ensure that a diverse and highly trained workforce is available to meet the needs of the Nation’s biomedical, behavioral, and clinical research agenda. Research training programs will incorporate didactic, research, and career development components to prepare individuals for careers that will have a significant impact on the health-related research needs of the Nation. Programs proposing only short-term research training should not apply to this announcement, but rather to the Kirschstein-NRSA Short-Term Institutional Research Training Grant Program (T35) exclusively reserved for predoctoral, short-term research training (see PA-14-016).
National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (T35)
National Institutes of Health, Cross-Institute, National Eye Institute (NEI), National Heart, Lung, and Blood Institute (NHLBI)
Contact: Varies with research interest
Solicitation number: PA-14-016
This FOA will award Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grants (T35) to eligible, domestic institutions to develop and/or enhance research training opportunities for predoctoral students interested in careers in biomedical, behavioral or clinical research. Many NIH Institutes and Centers (ICs) use this NRSA program exclusively to support intensive, short-term research training experiences for health professional students (medical students, dental students, and/or students in other health-professional programs) during the summer. This program is also intended to encourage training of graduate students in the physical or quantitative sciences to pursue research careers by short-term exposure to, and involvement in, the health-related sciences. The training should be of sufficient depth to enable the trainees, upon completion of the program, to have a thorough exposure to the principles underlying the conduct of biomedical research. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-015, that utilizes the Parent T32 Ruth L. Kirschstein NRSA Institutional Research Training Grant mechanism.

Bridges to the Doctorate (R25) - Limited Submission
National Institutes of Health, National Institute of General Medical Sciences (NIGMS)
Contact: Michelle Hamlet, 301/594-3900, hamletm@mail.nih.gov
Solicitation number: PAR-13-341
This FOA encourages Research Education Grant (R25) applications from institutions that propose to enhance the pool of master’s degree students from underrepresented backgrounds who are trained and available to participate in NIH-funded research. This initiative promotes partnerships/consortia between colleges or universities granting a terminal master’s degree with institutions that offer the doctorate degree. The program expects that the joint efforts of doctorate degree-granting and master’s degree-granting institutions will foster the development of a well-integrated institutional program that will provide students with the necessary academic preparation and skills to enable their transition and successful completion of the Ph.D. degree in biomedical and behavioral sciences. Application budgets are limited to $250K direct costs per year, for up to 5 years.

NEI Center Core Grant for Vision Research (P30) - Limited Submission
National Institutes of Health
Contact: Ellen Liberman, 301/451-2020, libermane@mail.nih.gov
Solicitation number: PAR-14-232
An NEI Center Core Grant combines three or more Resource and/or Service Cores for a group of R01 investigators to enhance their research, consolidate resources, avoid duplication of efforts, and/or contribute to cost effectiveness by providing a service with lower cost or higher quality than could be attempted for independent projects by several individual Program Directors/Principal Investigators (PD(s)/PI(s)). Shared resources and facilities that are accessible to a group of independently funded investigators lead to greater productivity for the separate projects, and can provide instrumentation and facilities that are too costly to be maintained by an individual investigator. The design and purpose of each Center Core may vary in how it serves its users. This program is designed to enhance an institution’s environment and capability to conduct vision research and to facilitate collaborative studies of the visual system and its disorders. The NEI will provide direct costs of up to $2M over a five-year period in support of a Core Grant to institutions having 8 to 19 eligible grants. Institutions having 20 or more eligible grants may receive direct costs of up to $2.5M over a five-year period.
Collaborative Interdisciplinary Team Science in NIDDK Research Areas (R24)

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


Contact: Corinne Silva, 301/451-7335, silvacm@mail.nih.gov

Solicitation number: PAR-13-305

These awards will foster the application of interdisciplinary, integrative and/or paradigm-shifting approaches to address complex challenges in biomedical research. This grant is designed to apply the flexibility of the Research Resource Project Grant mechanism (R24) to accommodate many forms of approaches including discovery-based or resource-generating and hypothesis-driven or hypothesis-generating science. Application budgets are not limited over a maximum five-year project period.

Understanding and Promoting Health Literacy (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-130

The goal of this program announcement is to encourage methodological, intervention and dissemination research for understanding and promoting health literacy. Health literacy is defined as the degree to which individuals have the capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions (Ratzan and Parker, 2000). Researchers are encouraged to address health literacy as it pertains to health care, prevention, healthy living, chronic disease management, community health, cultural competence, and health disparities. Research questions can focus on consumers, patients, providers, health care teams, educators, communities and organizations or systems. This FOA will utilize the R01 grant mechanism and runs in parallel with FOAs of identical scientific scope: PAR-13-131, which encourages applications under the R03 grant mechanism and PAR-13-132, which encourages applications under the R21 grant mechanism. The total project period may not exceed five years.

Functional Genetics, Epigenetics, and Non-coding RNAs in Substance Abuse (R01)

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


Contact: John Satterlee, 301/435-1020, satterleej@nida.nih.gov

Solicitation number: PA-14-014

Genetic and genomic studies have identified genes and gene variants that potentially modulate the fundamental biological mechanisms underpinning addictive processes. Discovery of these genes/variants, while extremely valuable, is only a first step in understanding molecular mechanisms of addiction. This FOA encourages basic functional genetic and genomic research in two areas: 1) functional validation to determine which candidate genes/variants/epigenetic/non-coding RNA features have an authentic role in addictive processes, and 2) detailed elucidation of the molecular pathways and processes modulated by candidate genes/variants, particularly for those genes with an unanticipated role in addiction. It is anticipated that the size and duration of awards will vary. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-013, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Neuroimmune Mechanisms of Alcohol Related Disorders (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Changhai Cui, 301/443-1678, changhai.cui@nih.gov

Solicitation number: PA-14-139

This FOA encourages proposals to study the neuroimmune mechanisms of alcohol related disorders. Studies supported by this FOA will provide fundamental insights of neuroimmune mechanisms underlying brain functional and behavioral changes induced by alcohol. This FOA runs in parallel with PA-14-138, which solicits applications under the R21 Exploratory/Developmental Grant mechanism.

Research on Autism and Autism Spectrum Disorders (R01)

National Institutes of Health, Cross-Institute


Contact: Lisa Gilotty, 301/443-3825, gilottyl@mail.nih.gov

Solicitation number: PA-13-216

This FOA encourages research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, treatment, and optimal means of service delivery in relation to autism spectrum disorders. Basic, clinical, and applied studies are encouraged. This FOA runs in parallel with two FOAs of identical scientific scope, PA-10-159 and PA-10-160, which encourage applications under the R03 and R21 mechanisms, respectively.

Reducing Health Disparities Among Minority and Underserved Children (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-14-033

This FOA solicits applications that propose to conduct research to reduce health disparities among minority and underserved children. Specifically, this initiative focuses on ethnic and racial minority children and underserved populations of children. Specific targeted areas of research include biobehavioral studies that incorporate multiple factors that influence child health disparities such as biological, lifestyle factors, environmental, social, economic, institutional, and cultural and family influences; studies that target the specific health promotion needs of children with a known illness and/or disability; and studies that test and evaluate the comparative effectiveness of health promotion interventions conducted in traditional and nontraditional settings. The maximum project period is five years. The companion FOA is PA-11-105, which solicits applications under the R21 mechanism.

Ancillary Studies to the NIDDK Intestinal Stem Cell Consortium (R01)

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


Contact: Jill Carrington, 301/402-0671, carringj@mail.nih.gov

Solicitation number: PAR-13-066

This FOA is to encourage applications to conduct ancillary studies to the NIDDK Intestinal Stem Cell Consortium (ISCC). Studies will make use of consortium collaborations, techniques, and resources to accelerate research into intestinal stem cells. The proposed ancillary study must be designed to advance the scientific research mission of the NIDDK by focusing on diseases and areas of interest to the Institute and commensurate with the interests and intent of the ISCC. The maximum period is five years.
Economics of Retirement (R01)
National Institutes of Health, National Institute on Aging (NIA)
Contact: John Phillips, 301/496-3138, John.Phillips@nih.gov
Solicitation number: PA-11-138
This FOA encourages research on the economic and health-related factors that influence older persons' choices on labor force participation as they near typical retirement age and throughout the later stages of life. Awards can be submitted for a maximum of five years. This FOA runs in parallel with PA-11-139, which solicits applications under the R03 Small Grant Program mechanism, and PA-11-140, which solicits applications under the R21 Exploratory Developmental Grant mechanism.

Technology Development for Protein Modeling (R01)
National Institutes of Health, National Institute of General Medical Sciences (NIGMS)
Contact: Ward Smith, 301/443-9375, smithwar@nigms.nih.gov
Solicitation number: PAR-13-033
This FOA encourages grant applications that propose to develop novel technologies that will significantly improve the accuracy of comparative modeling methods for protein structure prediction. The two main goals of this FOA are: 1) to increase the quality of protein structure models to a level comparable to high-resolution X-ray crystal structures when known structures are available with 30% sequence identity to the modeling targets, and 2) to increase model quality to 2 Angstroms RMSD or better when known structures are available with as low as 10% identity to the targets. The maximum project period allowable is five years.

Neurobiology of Migraine (R01)
National Institutes of Health, Cross-Institute
Contact: Linda Porter, 301/451-4460, porter@ninds.nih.gov
Solicitation number: PA-14-068
This Funding Opportunity Announcement (FOA) is issued by the National Institute of Neurological Disorders and Stroke (NINDS) in conjunction with the NIH Pain Consortium. It solicits R01 grant applications from institutions/organizations to perform innovative research that will elucidate the mechanisms underlying migraine, expand our current knowledge of the role of genetic, physiological, biopsychosocial, and environmental influences in migraine susceptibility and progression, and explore new therapeutic targets and therapies for acute migraine management and longer term prevention. This FOA will utilize the NIH Research Project Grant (R01) award mechanism and runs in parallel with a FOA of identical scientific scope, PA-14-069, that encourages applications under the NIH Exploratory/Developmental (R21) mechanism. Applicants may request support for up to five years.

Program for Extramural & Intramural Alcohol Research Collaborations (U01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: Peter Silverman, 301/402-6966, psilverm@mail.nih.gov
Solicitation number: PAR-13-133
The purpose of this FOA is to encourage collaboration between alcohol researchers in the extramural community and those within the NIAAA intramural research program. The objective of this FOA is to bring together the research expertise that, as a functioning collaborative unit, will address key alcohol-based research questions that would not otherwise be possible by the same individuals working towards similar goals in isolation. The goal of the research proposed by the collaborating investigators should address questions that advance the alcohol research field with respect to issues surrounding alcohol use disorders including dependence, and the effects of alcohol on health. The NIH Intramural Scientist will be a tenured or tenure-track scientist from the NIAAA Intramural division, with whom the PD/PI has made prior contact for the collaborative project. Applications may request support up to $250K direct cost per year for up to five years.
Virtual Reality Technologies for Research and Education in Obesity and Diabetes (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-11-211

This FOA encourages submission of hypothesis-testing research applications that capitalize on the unique capabilities of Virtual Reality (VR) technologies to visualize outcomes, teach, motivate, and to extend the health care and learning environments, in order to foster to foster desirable eating, physical activity, self-care, and other health-related behaviors necessary for prevention and management of obesity and diabetes. Of highest interest are well-designed multidisciplinary projects drawing on expertise in VR technologies and biomedical behavioral and pedagogical sciences. This FOA runs in parallel with three FOAs of identical scientific scope, PA-11-212, which utilizes the R21 Exploratory/Developmental Grant mechanism, RFA-HL-12-020, which utilizes the STTR R43/R44 (Phase I, Phase II, and Fast Track) mechanism, and RFA-HL-12-024, which utilizes the STTR R43/R44 (Phase I, Phase II, and Fast Track) mechanism. Projects periods are limited to five years.

Molecular and Cellular Substrates of Complex Brain Disorders (R01)

National Institutes of Health, National Institute of Mental Health (NIMH), National Institute on Alcohol Abuse and Alcoholism (NIA)


Contact: Varies with research interest

Solicitation number: PAR-11-299

This FOA encourages research grant applications directed toward the discovery of the impact of alterations associated with complex brain disorders on the fundamental cellular and molecular substrates of neuronal function. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PAR-11-300, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Implications of the Economic Downturn for Health, Wealth, and Work at Older Ages (R01)

National Institutes of Health, National Institute on Aging (NIA)


Contact: John Phillips, 301/496-3138, john.phillips@nih.gov

Solicitation number: PA-12-009

This FOA invites research on the implications of exogenous shocks, such as those produced by the recent economic downturn, for health, economic circumstances, and planning throughout the life-cycle. The maximum project period is five years.

Effects of Adolescent Binge Drinking on Brain Development (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)

http://grants.nih.gov/grants/guide/pa-files/PA-12-027.html

Contact: Lawrence Baizer, 301/443-9334, baizerl@mail.nih.gov

Solicitation number: PA-12-027

This FOA encourages Research Project Grant (R01) applications proposing to conduct mechanistic studies on the effects of adolescent binge alcohol consumption on synaptic maturation and myelin formation in the developing brain. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-028, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Alcohol Impairment of Immune Function, Host Defense and Tissue Homeostasis (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: M. Katherine Jung, 301/443-8744, jungma@mail.nih.gov
Solicitation number: PA-12-025
This FOA invites applications from researchers with broad ranges of expertise to study the consequences of alcohol consumption on immune function with the ultimate goal of alleviating infection and reversing alcohol-induced organ damage. The goal of this FOA is to attract applications on basic and translational research: 1) to identify how alcohol alters immune function; 2) to establish functional links between immune alterations and alcohol related infections and organ damage; and 3) to develop means for mitigating immune impairment with the goal of alleviating alcohol-induced pathology. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-026, which utilizes the R21 Exploratory/Developmental Grant mechanism. The maximum project period is five years.

Mechanisms Mediating Osteoarthritis in Aging (R01)
Contact: Varies with research interest
Solicitation number: PA-12-019
This FOA invites applications that are intended to encourage and accelerate the characterization of new or underutilized models and the testing of hypotheses that will lead to an improved understanding of the mechanisms mediating osteoarthritic progression. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-018, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Investigations on Primary Immunodeficiency Diseases (R01)
National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)
Contact: David Johnson, 301/496-7104, drjohnson@niaid.nih.gov
Solicitation number: PAR-12-036
This FOA is intended to support innovative investigations in primary immunodeficiency diseases. Of particular interest are the detection of primary immunodeficiency diseases, the identification of the molecular basis of these diseases, and the design and pre-clinical development of innovative therapies for these diseases. Studies using samples obtained from humans and studies on animal models are encouraged. Investigators who have not received independent NIH funding in this field are encouraged to apply. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-10-147, which utilizes the R03 Small Grant mechanism, and PAS-10-148, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Research to Advance Vaccine Safety (R01)
National Institutes of Health, Cross-Institute
http://grants.nih.gov/grants/guide/pa-files/PA-12-037.html
Contact: Varies with research interest
Solicitation number: PA-12-037
The purpose of this FOA is to support research that will contribute to the overall understanding of vaccine safety. This research opportunity invites studies that address scientific areas potentially relevant to vaccine safety such as 1) physiological and immunological responses to vaccines and vaccine components, 2) how genetic variations affect immune/physiological responses that may impact vaccine safety, 3) identification of risk factors and biological markers that may be used to assess whether there is a relationship between certain diseases or disorders and licensed vaccines, 4) creation/evaluation of statistical methodologies for analyzing data on vaccine safety, including data available from existing data sources such as passive reporting systems, or 5) the application of genomic/molecular technologies to improve knowledge of vaccine safety. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-038, which utilizes the R21 Exploratory/Developmental Grant mechanism.
International Research Collaboration on Drug Abuse and Addiction Research (R01)
National Institutes of Health, National Institute on Drug Abuse (NIDA)
Contact:  Steven Gust, 301/443-6480, ipdirector@nida.nih.gov
Solicitation number:  PA-12-040
This FOA encourages collaborative research applications on drug abuse and addiction that take advantage of special opportunities that exist outside the U.S. Special opportunities include access to unusual talent, resources, populations, or environmental conditions in other countries that will speed scientific discovery. This year the scientific priorities include: linkages between HIV/AIDS and drug abuse, and prevention, initiation, and treatment of nicotine and tobacco use (especially among vulnerable populations such as children, adolescents, pregnant women, and those with co-morbid disorders).

Alcohol Abuse, Sleep Disorders and Circadian Rhythms (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
http://grants.nih.gov/grants/guide/pa-files/PA-12-177.html
Contact: Lindsey Grandison, 301/443-0606, lindsey.grandison@nih.gov
Solicitation number:  PA-12-177
This FOA encourages Research Project Grant (R01) applications proposing to conduct mechanistic studies in humans and animal models on the relationships between alcohol abuse, circadian rhythms and sleep disorders. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-178, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Functions of Skeletal Muscle beyond Contraction (R01)
National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
http://grants.nih.gov/grants/guide/pa-files/PA-12-208.html
Contact: Amanda Boyce, 301/594-5055, boycea@mail.nih.gov
Solicitation number:  PA-12-208
This FOA encourages applications for support of innovative, projects aimed at studying the spectrum of activities of skeletal muscle in health and disease that are beyond its role in contraction and locomotion. These activities include endocrine and paracrine functions of skeletal muscle, resting muscle thermogenesis, sensing of biomechanical stimuli, storing amino acids, regulating systemic metabolism, etc. Advancing understanding of these important functions of muscle may lead to novel strategies for the prevention or treatment of common conditions such as cachexia, obesity, diabetes and sarcopenia. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-209, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Biomarkers for Early Detection of Hematopoietic Malignancies (R01)
National Institutes of Health, National Cancer Institute (NCI)
http://grants.nih.gov/grants/guide/pa-files/PA-12-221.html
Contact: Lynn Sorbara, 301/435-0584, lynns@mail.nih.gov
Solicitation number:  PA-12-221
This FOA encourages research projects for the development and validation of biomarkers for: a) early detection, prediction of progression, and recurrence of hematopoietic malignancies, especially in high-risk individuals; and, b) for risk assessment of primary and secondary hematopoietic malignancies. This FOA also encourages the development and improvement of specific technologies and methods for quantitative detection of novel biomarkers associated with hematopoietic malignancies. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-220, that utilizes the R21 Exploratory/Developmental Research Grant Award.
Unconventional Roles of Ethanol Metabolizing Enzymes, Metabolites, and Cofactors in Health and Disease (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Andras Orosz, 301/443-2193, orosza@mail.nih.gov

Solicitation number: PA-14-198

The purpose of this FOA is to provide support for integrated, innovative research on the novel and unconventional contributions of ethanol metabolizing pathways, their metabolites, cofactors, and interactions with synergizing biological pathways in the development of alcohol-induced diseases and end organ injuries. It is anticipated that this FOA will generate data that may lead to breakthroughs in our understanding of identifying key cellular and molecular components in the initiation, progression and maintenance of the diverse medical disorders caused by excessive, long term alcohol consumption. In the future this knowledge may be critical in the diagnosis, treatment and management of vulnerable patient population debilitated by the vast array of alcohol-induced pathologies and enable clinicians to improve disease outcomes and, consequently, public health. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-12-234 and PA-12-235, that utilize the R21 Exploratory/Developmental Grant and R01 Research Project Grant mechanisms, respectively.

Pregnancy in Women with Disabilities (R01)

National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), Nation


Contact: Varies with research interest

Solicitation number: PAR-11-258

This FOA encourages research project grants (R01) investigating the incidence, course, and outcomes of pregnancy among women with disabilities. Areas of interest also include studies to inform preconceptional and antenatal counseling and strategies for addressing barriers to prenatal care, and management of pregnancy, the puerperium, and the transition toparenthood in order to optimize outcomes for women with physical, intellectual and developmental, and/or sensory disabilities and their families. Applicants are encouraged to include women with disabilities and members of the community in the design and conduct of their research. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-11-259, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Examination of Survivorship Care Planning Efficacy and Impact (R01)

National Institutes of Health, National Cancer Institute (NCI)


Contact: Carly Parry, 301/435-4540, carla.parry@nih.gov

Solicitation number: PA-12-275

The purpose of this FOA is to stimulate research to evaluate the effect of care planning on cancer survivors’ health and psychosocial outcomes; self-management of late effects and adherence to cancer screening and health behavior guidelines; utilization of follow-up care; organizational-level factors influencing the implementation of care planning; and associated costs. Specifically, the FOA aims to stimulate research that will: 1) develop and test metrics for evaluating the impact of survivorship care planning; 2) evaluate the impact of survivorship care planning on cancer survivors’ morbidity, self-management and adherence to care recommendations, utilization of follow-up care, and on systems outcomes, such as associated costs and impact on organizations implementing care planning; and 3) identify models and processes of care that promote effective survivorship care planning. The ultimate goal of this FOA is to generate a body of science that will inform the development and delivery of interventions and best practices in follow-up care for cancer survivors. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-274, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Effects of In Utero Alcohol Exposure on Adult Health and Disease (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: William Dunty, 301/443-7351, duntyw@mail.nih.gov
Solicitation number: PA-12-291
This FOA is intended to support novel research on how prenatal alcohol exposure may contribute to the etiology of chronic
diseases and health conditions later in life. Central to this theme is the developmental origins of health and disease (DOHaD)
concept which suggests that fetal adaptations in response to adverse intrauterine conditions may increase the risk for childhood
and adulthood disease. The goal of this FOA is to stimulate a broad range of research to: 1) leverage existing prospective birth
cohorts to define the role of maternal alcohol consumption in the DOHaD process; 2) investigate the biological, cellular, and
molecular mechanisms by which prenatal alcohol exposure may impact disease outcomes later in life; and 3) identify biomarkers
associated with gestational alcohol exposure that may predict adult disease susceptibility in exposed offspring. Studies
supported by this FOA will provide fundamental insights into a possible fetal-basis to adult disease that is influenced by maternal
alcohol use. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project
period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PA-12-292, which utilizes the R21
Exploratory/Developmental Grant mechanism.

Ancillary Studies of Acute Kidney Injury, Chronic Kidney Disease, and End Stage Renal Disease Accessing Information
National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)
http://grants.nih.gov/grants/guide/pa-files/PA-12-299.html
Contact: Varies with research interest
Solicitation number: PA-12-299
This FOA encourages investigator-initiated research project applications for ancillary studies to ongoing or completed clinical
trials, existing administrative and clinical databases and epidemiological studies of kidney disease as well as clinical trials and
epidemiological studies for other diseases or populations that lend themselves to the study of acute kidney injury and chronic
kidney disease. These studies may range from new analyses of existing datasets of completed studies to additional collection of
data and biological specimens in ongoing investigations. The goal of these studies should be to extend our understanding of the
risk factors for developing kidney disease and their associated co-morbid illnesses such as malnutrition and cardiovascular
disease, factors associated with rapid decline in kidney function among persons with chronic kidney disease, and the impact of
these diseases on quality of life and mental and physical functioning. Investigations of acute kidney injury, including biomarkers
are also an appropriate topic for investigation. Studies ancillary to both government and non-government supported clinical
trials and epidemiological studies are encouraged. Analysis of large public access databases and other databases is also
couraged. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project
period is five years.

Stimulating Hematology Investigation - New Endeavors (SHINE) (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Terry Bishop, 301/594-7726, tb232j@nih.gov
Solicitation number: PAS-13-031
The overall objectives of the SHINE program are to catalyze discoveries in basic molecular and cellular biology that provide new
insights into the pathogenesis, prevention, detection, and potential treatment of disease, to attract new investigators into basic
and translational hematology research, to promote productive interdisciplinary research collaborations, and to reinforce
interactions and communication between NIDDK and the hematology research community. Specific research objectives
supported by the SHINE program in this initial announcement are: 1) Regulatory Determinants of Hematopoietic Stem Cell Fate;
2) Stress Erythropoiesis; 3) Biology and Pathophysiology of Myelodysplastic Syndromes (MDS); 4) Ribosomes and Their Role in
Disease; 5) Heme Regulation during Erythropoiesis; 6) Anemia of Inflammation and of Chronic Disease; and 7) Iron Overload. NIH
intends to fund an estimate of two to four awards, corresponding to a total of $1M for FY 2013. The maximum project period is
five years.
**Erythropoiesis - Components and Mechanisms (R01)**
National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)


Contact: Varies with research interest

Solicitation number: PA-13-034

This FOA encourages investigator-initiated R01 applications that propose hypothesis-driven research using erythroid cells. The aim of this program is to support research efforts towards a complete description of the molecular and cellular components of erythropoiesis and how these components contribute to erythropoiesis. Components include genes that are expressed (transcriptome) in erythroid cells, either during development or during differentiation, and the proteins (proteome) that are translated in erythroid cells, especially with post-translational modifications or subcellular localizations that are unique to erythroid cells. A long range goal of this program is to generate a concise description of erythropoiesis that unifies genetics, molecular processes and cytokine determinants in the erythroid lineages so that new therapeutics may be developed to measure and combat anemia. The maximum project period is five years.

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**Solid Organ Transplantation - Older Donors and Recipients (R01)**
National Institutes of Health, National Institute on Aging (NIA)


Contact: Susan Ziemian, 301/496-6761, Susan.Ziemian@nih.gov

Solicitation number: PA-13-030

This FOA invites applications that propose basic, clinical, translational, epidemiological and outcomes research on solid organ transplant (SOT) in older persons. Research may focus on, but is not limited to: 1) appropriate selection of older SOT donors and recipients; 2) improved management of older SOT recipients; 3) immunology and immunosuppression pertaining to older SOT patients; and 4) healthcare disparities, utilization and costs of SOT in older patients. Research supported by this initiative is expected to enhance knowledge of immunobiology in aging and transplantation, and to provide evidence-based guidance to improve access to transplantation, organ allocation and utilization, graft survival, and short- and long-term outcomes of SOT in older persons. The maximum project period is five years. This FOA runs in parallel with two FOAs of identical scientific scope: 1) PA-13-037, which utilizes the R03 Small Grant Program mechanism; and 2) PA-13-038, which utilizes the R21 Exploratory/Developmental Grant mechanism.

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**Calcium Oxalate Stone Diseases (R01)**
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)


Contact: Rebekah Rasooly, 301/594-6007, rebekah.rasooly@nih.gov

Solicitation number: PA-13-043

It has been estimated that up to 10% of males and 5% of females in the United States will form a kidney stone (i.e., experience urolithiasis) at some time during their lives. In addition to the pain and suffering of an acute stone event, treatment and time lost from work involve substantial costs. Recent data suggest that kidney stone disease is becoming more common. The majority of kidney stones are formed from calcium oxalate. There are many open questions about the appropriate dietary, medical and surgical treatments of stones. While there are many approaches, there is clearly a need for novel therapeutics and stone prevention strategies for both the hereditary and idiopathic stone diseases. It is the intent of this FOA to increase novel and productive research focusing on Primary Hyperoxaluria, Dent Disease and the recurrent idiopathic oxalate stone diseases and to encourage both new and experienced investigators from related fields of research to apply their knowledge and skills to this area. The maximum project period is five years.
Drug Discovery for Nervous System Disorders
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-13-048

Significant advances in neuroscience, genetics, and basic behavioral science, together with technological developments, have provided a rich knowledge base for identifying new molecular targets for drug discovery, and developing rational pharmacotherapies for the treatment of a wide variety of nervous system disorders. With the wealth of potential new drug targets, the opportunity exists to accelerate the process of drug discovery and development to make quantum leaps toward novel and effective treatments for mental disorders, drug and alcohol abuse, and nervous system disorders associated with aging. Through this funding opportunity the National Institute of Mental Health (NIMH), National Institute on Aging (NIA), National Institute on Alcohol Abuse and Alcoholism (NIAAA), and the National Institute on Drug Abuse (NIDA) seek to encourage the submission of research grant applications that aim to translate this wealth of basic science findings into the conceptualization, discovery, and preclinical evaluation of innovative therapeutics for nervous system disorders, with the goal of accelerating the development of new treatments for these diseases. The objective of this FOA is to stimulate research in the discovery, design, and preclinical testing of novel therapeutics aimed at prevention or treatment of nervous system disorders. Studies aimed at the development and testing of compounds for novel targets are encouraged, however projects designed for target identification are not covered under this announcement. The goal is to advance new, innovative, and effective therapies for the prevention and treatment of nervous system disorders. The maximum project period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PAR-13-049, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Pain in Aging (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-058

This FOA encourages Research Project Grant (R01) applications from institutions/organizations that propose to study pain from an aging perspective, including studies of older populations, studies of age differences and age-related changes in pain processes and experiences, and studies of pain treatment and management in older adults. This FOA particularly encourages studies on: 1) mechanisms and predictors of pain experience in aging, 2) development and evaluation of pain assessment tools for older adults or older model organisms, and 3) development and evaluation of pain management strategies in older adults, with particular attention to the challenges associated with treating pain in patients with multiple morbidities. Studies may address a variety of approaches and outcomes including biological (i.e., genetic, molecular, neurobiological), clinical, behavioral, psychological, and social factors. Both animal models (especially aged animals) and human subjects are appropriate for this FOA. The maximum project period is five years.

Advances in Polycystic Kidney Disease (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Rebekah Rasooly, 301/594-6007, rebekah.rasooly@nih.gov
Solicitation number: PA-13-064

It is the intent of this FOA to encourage applications from investigators with diverse scientific interests, who wish to apply their expertise into basic and applied research to enhance the understanding of the etiology and pathogenesis of both ADPKD and ARPKD; the genetic determinants and cellular and molecular mechanisms which disrupt normal kidney function; the mechanisms of cyst formation and growth at the cellular and molecular levels; the development of experimental model systems; the development of innovative regenerative approaches; the enhancement of imaging methods or other biomarkers to assess cyst growth and disease progression; and research studies aimed at the identification of therapeutic opportunities and gene targeted strategies to prevent progressive chronic kidney disease due to this disorder. The maximum project period is five years.
**Behavioral & Integrative Treatment Development Program (R01)**

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-077

The purpose of this FOA is to encourage behavioral intervention development research to test efficacy, conduct clinical trials, examine mechanisms of behavior change, determine dose-response, optimize combinations, and/or ascertain best sequencing of behavioral, combined, sequential, or integrated behavioral and pharmacological: 1) drug abuse treatment interventions, including interventions for patients with comorbidities, in diverse settings; 2) drug abuse treatment and adherence interventions for use in primary care; 3) drug abuse treatment and adherence interventions that utilize technologies to boost effects and increase implementability; 4) interventions to prevent the acquisition or transmission of HIV infection among individuals in drug abuse treatment; 5) interventions to promote adherence to drug abuse treatment, HIV and addiction medications; and 6) interventions to treat chronic pain. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-078, which utilizes the R34 Clinical Trial Planning Grant Program mechanism and PA-13-079, which utilizes the R03 Small Grant Program mechanism.

**Accelerating the Pace of Drug Abuse Research Using Existing Data (R01)**

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-080

The purpose of this FOA is to invite applications proposing the innovative analysis of existing social science, behavioral, administrative, and neuroimaging data to study the etiology and epidemiology of drug using behaviors (defined as alcohol, tobacco, prescription and other drug) and related disorders, associated HIV risk behaviors, prevention of drug use and HIV, and health service utilization. Under this FOA, the National Institute on Drug Abuse (NIDA), National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Cancer Institute (NCI), and the Office of Behavioral and Social Sciences (OBSSR) encourage the analyses of public use and other extant community-based or clinical datasets to their full potential in order to increase our knowledge of etiology, trajectories of drug using behaviors and their consequences, risk and resilience in the development of psychopathology, strategies to guide the development, testing, implementation, and delivery of high quality, effective and efficient services for the prevention and treatment of drug abuse and HIV. Budgets for direct costs of up to $150K direct costs per year and a project duration of up to three years may be requested, for a maximum of $450K direct costs over a three-year project period.

**School Nutrition and Physical Activity Policies, Obesogenic Behaviors and Weight Outcomes (R01)**

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-100

This FOA encourages applications that propose to: 1) foster multidisciplinary research that will evaluate how policies can influence school physical activity and nutrition environments, youths’ obesogenic behaviors (e.g., nutrition and physical activity behaviors), and weight outcomes; 2) understand how schools are implementing these policies and examine multi-level influences on adoption and implementation at various levels (e.g. federal, state, school district, and school); and 3) understand the synergistic or counteractive effect of school nutrition and physical activity polices on the home and community environment and body weight. The Social Ecological Framework is one of several frameworks that can be used to examine the interrelations among policies aimed at the school and home environment, individual diet and physical activity behaviors and weight outcomes. Application budgets are not limited but need to reflect the actual needs of the project. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PA-13-099, which utilizes the R03 Small Grant Program mechanism; and 2) PA-13-098, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Disorders of Human Communication - Effectiveness, Outcomes and Health Services Research (R01)

National Institutes of Health, National Institute on Deafness and Other Communication Disorders (NIDCD)


Contact: Amy Donahue, 301/402-3458, donahuea@nidcd.nih.gov

Solicitation number: PA-13-102

The purpose of this FOA is to support effectiveness, outcomes and health services research in the NIDCD mission areas of hearing, balance, smell, taste, voice, speech and language. Outcomes research seeks to determine to what degree an intervention works in patients/populations in general, real-world settings, such as in diverse populations and diverse provider and clinical practice settings. Outcomes research (often referred to as effectiveness research) applications should seek to measure, evaluate and/or improve patient-centered outcomes following intervention for communication disorders. Health Services Research examines the impact of organization, financing and management of health care services on the delivery, quality, cost, access to and outcomes of such services, including demographic, social, economic, and health system factors as they relate to providing preventive, screening, diagnostic, treatment and rehabilitative services. Research may focus on any/all the different factors that impact access, utilization, and quality and outcomes of health care services. Application budgets are not limited but need to reflect the actual needs of the project. The maximum project period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PA-13-103, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Obesity Policy Evaluation Research (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-110

Obesity is a major contributor to many serious health conditions that increase morbidity and mortality and reduce quality of life. The prevalence of obesity in children and adults in the United States has dramatically increased in the past four decades. Nationally there is an imperative to take action at local, state and federal levels, especially related to obesity in children. While helping people achieve and maintain a healthy weight is a critical public health goal, relatively little is known about the effectiveness of large scale policies and programs that could help achieve this goal at the population level, or any differential effects on sub-populations. Institute Specific Interests include: 1) NIDDK is particularly interested in the evaluation of large scale weight related programs or policy that are targeted to obesity and/or diabetes prevention; 2) NHLBI is especially interested in research on programs and policies that target cardiovascular disease risk factors such as obesity, diabetes, and adverse health behaviors (physical inactivity, poor dietary behaviors, sleep disorders); 3) NICHD is interested in applications that propose to evaluate the impact of weight related policies or programs on children, families, pregnant women, or children with disabilities; 4) NCI is particularly interested in the evaluation of programs or policies that may affect dietary or physical activity behavior and/or weight, and studies incorporating economic research; and 5) NIA is especially interested in research on programs and policies affecting sedentary behavior and physical activity among older adults, including programs and policies based on research in behavioral economics. The maximum project period is five years.

Mechanistic Insights from Birth Cohorts (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-109

Little is known about the mechanisms by which such prenatal exposures lead to diabetes or obesity, renal, pulmonary, or cardiovascular or hematologic disease, neurodevelopmental disorders, or reproductive health (i.e. fertility). Ultimately, a better mechanistic understanding of how prenatal exposures contribute to the etiology of chronic diseases and health conditions later in life will allow for the development of effective interventions during pregnancy or early life that may have a profound impact on disease prevention and the future health of the offspring. Proposed studies must take advantage of existing (or accruing) birth cohorts, with well-characterized pregnancies, such that targeted mechanistic questions regarding the developmental origins of diabetes or obesity, renal, pulmonary, or cardiovascular or hematologic disease, neurodevelopmental disorders, or reproductive health (i.e. fertility) can be addressed. Applications should focus on potential mechanisms that mediate the developmental origins of human disease. Applications submitted to this FOA should target diabetes or obesity, renal, pulmonary, or cardiovascular or hematologic disease, neurodevelopmental disorders, or reproductive health. Application budgets are limited to less than $500K in direct costs per year for a maximum of five years.
**Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R01)**
National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-114

This FOA encourages applications from institutions and organizations proposing research aimed at characterizing animal stem cells and improving existing, and creating new, animal models for human disease conditions. The intent of this initiative is to facilitate the use of stem cell-based therapies for regenerative medicine, and focuses on the following areas: 1) comparative analysis of animal and human stem cells to provide information for selection of the most predictive and informative model systems; 2) development of new technologies for stem cell characterization and transplantation; and 3) improvement of animal disease models for stem cell-based therapeutic applications. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum award period is 4 years for ORIP/DPCPSI and 5 years for NHLBI, NIDCR, NIDDK and NIGMS.

**Mechanisms, Models, Measurement, & Management in Pain Research (R01)**
National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-118

The purpose of this FOA is to inform the scientific community of the pain research interests of the various Institutes and Centers (ICs) at NIH and to stimulate and foster a wide range of basic, clinical, and translational studies on pain as they relate to the missions of these ICs. New advances are needed in every area of pain research, from the micro perspective of molecular sciences to the macro perspective of behavioral and social sciences. Although great strides have been made in some areas, such as the identification of neural pathways of pain, the experience of pain and the challenge of treatment have remained uniquely individual and unsolved. Furthermore, our understanding of how and why individuals transition to a chronic pain state after an acute injury is limited. Research to address these issues conducted by interdisciplinary and multidisciplinary research teams is strongly encouraged, as is research from underrepresented, minority, disabled, or women investigators. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PA-13-117, which utilizes the R03 Small Grant Program mechanism; and 2) PA-13-119, which utilizes the R21 Exploratory/Developmental Grant mechanism.

**Research on Alcohol and HIV & AIDS (R01)**
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Kendall Bryant, 301/403-9289, kbryant@mail.nih.gov

Solicitation number: PA-13-121

This FOA is intended to appeal to a broad audience of alcohol and HIV/AIDS researchers, including alcohol researchers with no prior experience in HIV/AIDS research but with a keen appreciation for the relationship between problem drinking and HIV/AIDS and a strong interest in acquiring such experience; HIV/AIDS researchers with no prior alcohol research experience who realize the importance of more intensive alcohol interventions to improving clinical outcomes among HIV-infected individuals; and those with prior research experience in the area of co-occurring HIV/AIDS and alcohol and other substance abuse. The primary objectives for this announcement are to increase research: 1) to characterize the relative importance of reducing alcohol misuse in the prevention of acquisition and transmission of HIV in order to identify and apply appropriate alcohol and HIV interventions as public health measures; 2) to more fully understand and prevent the progression of HIV disease in the presence of continued alcohol exposure; and 3) to develop operational research frameworks for addressing the occurrence and persistence of infections in high-risk populations (e.g. minority women, young gay men, etc.), and translate findings into effective, culturally appropriate preventive and treatment interventions for these targeted populations. Application budgets are not limited but need to reflect actual needs of the proposed project. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PA-13-122, which utilizes the R21 Exploratory/Developmental Grant mechanism; and 2) PA-13-120, which utilizes the R03 Small Research Project Grant mechanism.
Bioengineering Research Grants (BRG) (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number:  PAR-13-137
The purpose of this funding opportunity announcement is to encourage collaborations between the life and physical sciences that: 1) apply a multidisciplinary bioengineering approach to the solution of a biomedical problem; and 2) integrate, optimize, validate, translate or otherwise accelerate the adoption of promising tools, methods and techniques for a specific research or clinical problem in basic, translational, or clinical science and practice. An application may propose design-directed, developmental, discovery-driven, or hypothesis-driven research and is appropriate for small teams applying an integrative approach that can increase our understanding of and solve problems in biological, clinical or translational science. Application budgets are not limited but need to reflect actual needs of the proposed project. The maximum award period is 4 or 5 years depending on the NIH Institutes and Centers. This FOA runs in parallel with other FOAs of identical scientific scope: PA-12-284, which utilizes the R21 Exploratory/Developmental Bioengineering Research Grants mechanism, and PAR-10-234, which utilizes the R01 Bioengineering Research Partnerships mechanism.

Addressing Health Disparities in NIDDK Diseases (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Varies with research interest
Solicitation number:  PA-13-183
The NIDDK seeks research to improve understanding of the causes of high priority diseases in the United States and to develop and test more effective interventions for reducing/eliminating health disparities. Research is encouraged in the following high priority diseases within the scientific mission areas of the NIDDK: diabetes, obesity, nutrition-related disorders, hepatitis C, gallbladder disease, H. Pylori infection, sickle cell disease, kidney diseases, urologic diseases, hematologic diseases, metabolic, gastrointestinal, hepatic, and renal complications from infection with HIV. Research approaches may include metabolic, genetic, clinical, behavioral, and/or epidemiologic studies in representative populations. Application budgets are not limited, but must reflect the actual needs of the proposed project. The maximum project period is five years.

Mechanisms of Alcohol and Nicotine Co-Addiction (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: Ivana Grakalic, 301/443-7600, igrakalic@mail.nih.gov
Solicitation number:  PA-13-194
The NIAAA encourages grant applications to examine mechanisms contributing to concurrent alcohol and nicotine dependence. Co-occurring alcohol and nicotine dependence is common. Research suggests that alcohol dependence and nicotine dependence have similar genetic, neurochemical and behavioral characteristics. It is not well understood, however, whether common mechanisms underlie the comorbidity of alcohol and nicotine use and dependence. The purpose of this FOA is to promote research to study neurobiological and behavioral mechanisms of dependence and how alcohol and nicotine use interact through these mechanisms to promote dependence. Such an understanding is essential to guide the development of better prevention and treatment strategies for alcohol and nicotine co-abuse. The maximum project period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PA-13-193, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Home and Family Based Approaches for the Prevention or Management of Overweight or Obesity in Early Childhood

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-153

This FOA invites Research Project Grant (R01) applications from institutions/organizations that propose randomized clinical trials testing novel home- or family-based interventions for the prevention or management of overweight in infancy and early childhood. Tested interventions can use behavioral (including dietary and physical activity), environmental, or other relevant approaches. Applications should focus on infants and young children and emphasize the role of home environment and the influence of family/extended family members and parents (including guardians/substantial care-providers) within the child's home environment. Research should consider the familial mechanisms of behavior such as the role of families in the initiation, support, and reinforcement of fundamental food and beverage consumption, physical activity practices, and sedentary behaviors. In addition it is of interest to elucidate various underlying behavioral determinants that are crucial to initiate or sustain changes in behaviors that impact energy balance. Research designs may include linkages with other settings (e.g., daycare, pre-school, or other community venues) or other care providers (e.g., health care providers or teachers) but must include infants or children less than age six years as the primary study participant along with parents, and/or other family members residing with the child. The overarching goal is to identify interventions that influence parent and child behaviors that contribute to inappropriate weight gain, and thereby improve subsequent health status in childhood, adolescence, and adulthood for which overweight is a known risk factor. 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. This FOA runs in parallel with a FOA of identical scientific scope, PA-13-154, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Development and Characterization of Animal Models for Aging Research (R01)

National Institutes of Health, National Institute on Aging (NIA), National Institute on Deafness and Other Communication Disorders


Contact: Varies with research interest

Solicitation number: PA-13-155

The purpose of this FOA is to promote research that develops, characterizes, refines and enhances model systems for aging research. Studies of the biology of aging require biological models systems such as rodents and cell lines; no human studies are involved. Studies developing new model systems or refining existing models to maximize their value for aging research will contribute to the understanding of normal changes in physiology and function with age and the onset, progression, therapeutics and prevention of age-associated diseases. Application budgets are not limited; the maximum project period is five years.

Innovative Measurement Tools for Community Engaged Research Efforts (R01)

National Institutes of Health, National Institute of Nursing Research (NINR)


Contact: Donna Jo McCloskey, 301/594-5971, mccloskd@mail.nih.gov

Solicitation number: PA-13-209

This FOA seeks to develop innovative measurement for community engaged research efforts. The use of community engaged research (CEnR) methodologies, such as community-based participatory, community-based, and practice-based research are regarded as valid approaches to prevent disease and promote health. A collaborative effort between community partners and researchers to engage in research that benefits community is a central tenet to CEnR. Specific areas of research interest include: 1) Develop and test tools that measure trust between partners in engagement efforts; 2) Develop and test tools that measure capacity/readiness for research efforts; 3) Develop and test tools to measure successful partnership/collaboration in engagement efforts; 4) Develop reliable and valid tools that can be used in measuring community engaged research efforts that impact individual outcomes such as trust, capacity, empowerment, and collaboration; 5) Use established statistical procedures to test existing or newly developed instruments; 6) Develop and test instruments that measure the success or failure of partnership efforts; 7) Apply existing tools in measuring community engaged research efforts; 8) Develop and test scientific measures of sustainability for health improvement programs; and 9) Develop and test scientific outcome measures related to improving health disparities. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-13-212, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Understanding User Needs and Context to Inform Consumer Health Information Technology (IT) Design (R01)

National Institutes of Health


Contact: Angela Lavanderos, 301/427-1505, Angela.Lavanderos@ahrq.hhs.gov

Solicitation number: PA-11-199

This FOA looks to bridge the chasm that currently exists between consumer health IT designers and the users themselves, by bolstering basic research to better understand users’ PHIM practices, needs, and goals as they are intrinsically shaped by an array of contextual factors. Each application must clearly identify at least one of these research areas as the primary research area to be addressed: 1) The needs and preferences of diverse user groups in different contexts; 2) User goals, activities, and personal health information management practices; 3) User capacities (e.g., cognitive, physical, health literacy); 4) User motivation (including beliefs and preferences); and 5) Identifying “expert” user groups (e.g., frequent health care consumers and their caregivers) and studying them as models. The total costs awarded to a grant under this FOA will not exceed $500K per year for up to five years.

Research on Autism Spectrum Disorders (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-216

This FOA encourages research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, treatment, and optimal means of service delivery in relation to autism spectrum disorders (ASD). Basic, clinical, and applied studies are encouraged. Areas of interest include, but are not limited to, the following: 1) Epidemiology; 2) Screening, Early Identification, and Diagnosis; 3) Genetic Studies; 4) Brain Mechanisms; 5) Shared Neurobiology of Autism with Fragile X, Rett Syndrome, and Related Disorders; 6) Cognitive Science; 7) Communication Skills; 8) Pharmacological/Biological Interventions; 9) Pharmacogenomic Studies; 10) Psychosocial/Behavioral Interventions; and 11) Services Research. Application budgets are not limited and the total project period may not exceed 5 years. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-217, which utilizes the R21 Exploratory/Developmental Grant mechanism; and PA-13-218, which utilizes the R03 Small Grant Program mechanism.

Development of Assays for High-Throughput Screening for Use in Probe and Pre-therapeutic Discovery

National Institutes of Health


Contact: Varies with research interest

Solicitation number: PAR-13-364

Through this FOA, NIH wishes to stimulate research in 1) developing assays for specific biological targets and disease mechanisms relevant to the mission of participating NIH Institutes with the intent to screen for small molecule compounds that show potential as probes for use in advancing knowledge about the known targets, identifying new targets, or as pre-therapeutic leads; and 2) establishing collaboration with screening centers that have the requisite expertise and experience needed in implementation of HTS assays for the discovery and development of small molecule chemical probes. This FOA seeks to establish a stream of scientifically and technologically outstanding assays for screening by the NIH Molecular Libraries Production Centers Network (MLPCN) in the Molecular Libraries Program (MLP) and other academic centers. One important criterion for this initiative is novelty, so applicants are therefore encouraged to avoid focusing on areas and approaches that have been extensively targeted in other settings. Assays should be relevant to the scope of research in at least one of the participating NIH Institutes. The maximum project period is three years; project budgets are not limited.
Spatial Uncertainty - Data, Modeling, and Communication (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-11-238

The purpose of this FOA is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. It will require a team of epidemiologists, statisticians, and experts in data visualization or health communication to attack the spatial uncertainty issue thoroughly. This FOA will facilitate multidisciplinary collaborations among scientists to promote research in identifying, quantifying, reducing, and communicating spatial uncertainty in health research to improve disease control and prevention. It will also facilitate integration of data collection, information technology, visualization tools, statistical models, and health communication to reduce spatial uncertainty in planning, implementing and evaluating disease control programs. The National Cancer Institute (NCI) is interested in general methodology of spatial statistical models and visualization tools that are applicable to disease control and prevention especially as related to cancer and cancer patients.

The National Institute of Allergy and Infectious Diseases (NIAID) is interested in the development of spatial and temporal statistical/mathematical models to predict the spread and transmission of infectious diseases such as HIV/AIDS, malaria, tuberculosis, and other emerging and re-emerging infectious diseases and allergic diseases. The prediction will be used to guide local prevention efforts to ensure care relevance to the local population. The spread of infectious agent (spore release, infected vector, infected host) exhibits spatial and temporal patterns. The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) will consider applications that apply spatial statistical models and visualization tools to scientific questions that address: child health; determinants of health, development, and productivity among defined populations using probability samples; and demography and demographic change. The National Institute on Drug Abuse (NIDA) will consider only spatial uncertainty applications that are directly relevant to the intersection of HIV and drug use, abuse, and addiction. "Drug use" refers to use of tobacco, alcohol, marijuana, prescription and illicit drugs, emerging addictive substances, and poly drug use. The National Heart, Lung, and Blood Institute (NHLBI), National Institute on Alcohol Abuse and Alcoholism (NIAAA), and National Institute of Environmental Health Sciences (NIEHS) are interested in the general methodological issues of spatial uncertainty. The maximum period is 5 years. This FOA runs in parallel with FOAs of identical scientific scope, PA-11-239 and PA-11-240, that utilize the R21 Exploratory/Developmental Grant and R03 Small Grant Program mechanisms, respectively.

Women and Sex or Gender Differences in Drug and Alcohol Abuse or Dependence (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Varies with research interest

Solicitation number: PA-11-047

The purpose of this FOA issued by the National Institute on Drug Abuse (NIDA) and National Institute on Alcohol Abuse and Alcoholism (NIAAA) is to advance research on male-females differences in drug and alcohol abuse and addiction and on factors specific to women. Both human and animal model studies are sought. Areas of research interest include, but are not limited to, the following: 1) Etiology and mechanisms of drug abuse; 2) Consequences and impact; 3) Prevention and prevention services; 4) Treatment and treatment services; and 5) HIV/AIDS and related infectious diseases. The maximum period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-11-048 and PA-11-049, that utilize the R21 Exploratory/Developmental Grant and R03 Small Grant Program mechanisms, respectively.
**Functional Genetics, Epigenetics, and Non-Coding RNAs in Substance Abuse (R01)**

National Institutes of Health


Contact: John Satterlee, 301/435-1020, mailto:satterleej@nida.nih.gov

Solicitation number: PA-11-033

Genetic and genomic studies have identified genes and gene variants that potentially modulate the fundamental biological mechanisms underpinning addictive processes. Discovery of these genes/variants, while extremely valuable, is only a first step in understanding molecular mechanisms of addiction. This FOA encourages basic functional genomic research in two areas: 1) functional validation to determine which candidate genes/variants/epigenetic/non-coding RNA features have an authentic role in addictive processes; and 2) detailed elucidation of the molecular pathways and processes modulated by candidate genes/variants, particularly for those genes with an unanticipated role in addiction.

**The Molecular Genetics of Drug Addiction and Related Co-Morbidities (R01)**

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


Contact: Jonathan Pollock, 301/435-1309, jpollock@mail.nih.gov

Solicitation number: PA-14-025

This FOA encourages applications for research projects that identify and/or validate chromosomal loci and variations in genes that are associated with vulnerability to addiction and that inform the likelihood of responsiveness to treatment. Applications that propose to examine intermediate phenotypes or endophenotypes to assess the molecular genetics of drug addiction, addiction vulnerability and/or their associated co-morbidities and how they are related to drug addiction are especially encouraged. Also encouraged are genetic as well as computational and large-scale genomic approaches, which may include but are not limited to linkage, linkage disequilibrium, case-control or family-based studies, and integration of data from other databases that may supplement substance abuse genetics and genomics data. Data may be collected from the general population, special populations, recent admixed populations, and/or animal models. Secondary data analysis of data collected from the general population, special populations, recent admixed populations, and/or animal models is also appropriate for this announcement. Investigators are encouraged to include, as a component of their project and as appropriate, gene x gene interactions, gene x environment interactions, gene x environment x development interactions, pharmacogenetics, and non-human models. The maximum project period is five years.

**Public Health Impact of the Changing Policy & Legal Environment for Marijuana (R01)**

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


Contact: Marsha Lopez, 301/443-6504, lopezmar@mail.nih.gov

Solicitation number: PAS-14-020

This initiative encourages research on the impact of changing marijuana policies and laws on public health outcomes, including marijuana exposure among children, adolescents, and adults; other licit and illicit drug use; education and professional achievement; social development; risky behaviors (e.g., drugged driving); mental health; HIV, etc. This initiative seeks to delineate a broad range of outcomes of marijuana both direct and indirect exposure among children, adolescents, and adults. Population-based studies could include but are not limited to research in the following areas: 1) social and emotional development and maturity; 2) educational and employment attainment; 3) teen and adult life transitions; 4) physical and mental health; 5) criminal justice involvement (arrests, underage violations, public intoxication, impaired driving); 6) composition/potency of marijuana; mechanisms of risk and causality; 7) impact on polysubstance use, including interactions (substitute/complement) with alcohol, tobacco, and prescription opioids; and 8) impact of taxation and regulatory strategies effect of cultural change on marijuana use and outcomes. Research directly related to marijuana law/policy is not required; rather the focus of this call for research is to build knowledge on the social, behavioral, physical, and public health impacts of marijuana involvement. Given the broad nature of needed research on outcomes of marijuana use, both domestic and foreign sites for research are encouraged and use of appropriate controls is recommended. NIH intends to fund an estimate of 6-10 awards, corresponding to a total of $3M for fiscal year 2015. Future year amounts will depend on annual appropriations. The maximum project period is three years.
Substance Use and Abuse, Risky Decision Making and HIV & AIDS (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Woody Lin, 301/435-1318, ylin1@nida.nih.gov

Solicitation number: PA-14-061

This FOA is intended to stimulate model-driven research to understand the ways that people make decisions about engaging in behaviors that impact the risk of acquiring or transmitting HIV, or to adhere to treatments for HIV. Decision making processes may contribute to both substance use/abuse and other HIV acquisition or transmission risks. A better understanding of decision making processes in the context of brain neural networks and their associated functions would lead to the development of better strategies to reduce the frequency of HIV-risk behaviors. Therefore, this FOA encourages applications to study 1) cognitive, motivational or emotional mechanisms and/or 2) brain neuroendocrine and reinforcement systems that related to HIV-risk behaviors or treatment non-compliance. Interdisciplinary studies that incorporate approaches from psychology, economics, anthropology, sociology, decision sciences, neuroscience and computational modeling are encouraged. This FOA for R01 applications solicits empirical, hypothesis-driven, confirmatory research and modeling approaches. Exploratory, descriptive or hypothesis-generating research are more appropriate for the complementary FOA’s using the R21 or R03 mechanisms. In no cases, should research involving animals be proposed. This FOA runs in parallel with a FOAs of identical scientific scope, PA-14-062 and PA-14-063, that utilize the R21 Exploratory/Developmental Grant and R03 Small Grant Program mechanisms, respectively.

Genetic Susceptibility & Variability of Human Structural Birth Defects (R01)

National Institutes of Health, Cross-Institute, Eunice Kennedy Shriver National Institute of Child Health and Human Development,


Contact: Varies with research interest

Solicitation number: PA-14-056

The purpose of this FOA is to support innovative investigator-initiated R01 applications using animal models in conjunction with translational/clinical approaches that take advantage of advances in genetics, biochemistry, molecular, and developmental biology to identify the specific genetic, epigenetic, environmental, or gene/environment interactions associated with the susceptibility to and variability of structural birth defects in human populations. Investigators are encouraged to 1) develop interdisciplinary approaches involving clinicians, genetic epidemiologists, and basic biomedical scientists (e.g., geneticists, molecular, and developmental biologists, etc.); and 2) collaborate with existing population-based birth defects registries, databases, and surveillance programs at the private, state, and Federal levels, especially the Centers for Disease Control and Prevention (CDC)-funded Centers for Birth Defects Research and Prevention. The maximum project period for this FOA is five years.

NIDCD Research on Hearing Health Care (R01)

National Institutes of Health, National Institute on Deafness and Other Communication Disorders (NIDCD)


Contact: Amy Donahue, 301/402-3458, donahuea@nidcd.nih.gov

Solicitation number: PA-14-091

This FOA encourages Research Project Grant (R01) applications from institutions/organizations to support research leading to accessible and affordable hearing health care (HHC). The overarching emphasis is on the acquisition of knowledge that can be rapidly translated into new or enhanced approaches for access, assessment or interventions with a goal to delivering better hearing health care outcomes. Applications should seek quality approaches that are effective, affordable and deliverable to those who need them as well as implementable and sustainable in settings beyond the research environment. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-090, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Prevention and Treatment of Substance Using Populations with or at Risk for HCV (R01)

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


Contact: Will Aklin, 301/443-3207, aklinwm@nida.nih.gov

Solicitation number: PA-14-137

This FOA (R01) outlines priority areas for high impact clinical and basic research for at-risk substance using populations, including those infected with or at risk for HIV. In particular, this FOA encourages research focused on prevention and treatment of Hepatitis C Virus (HCV) to reduce new infections and identify and treat existing infections more effectively. This FOA is informed by priority areas in the 2011 HHS Action Plan, Combating the Silent Epidemic of Viral Hepatitis: Action Plan for the Prevention, Care and Treatment of Viral Hepatitis. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-14-136 and PA-14-135, that utilize the R21 Exploratory/Developmental Grant and R34 Planning Grant mechanisms, respectively.

Alcohol-Induced Effects on Tissue Injury and Repair (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)

http://grants.nih.gov/grants/guide/pa-files/PA-14-123.html

Contact: William Dunty, 301/443-7351, duntyw@mail.nih.gov

Solicitation number: PA-14-123

This FOA encourages Research Project Grant (R01) applications to study molecular and cellular mechanisms of tissue injury and repair associated with alcohol use in humans. Excessive alcohol consumption has the potential to adversely affect multiple organ systems including the liver, brain, heart, pancreas, lung, kidney, endocrine and immune systems, as well as bone and skeletal muscle. In addition, there is accumulating evidence that long term alcohol consumption is associated with reduced host capacity for recovery and repair following trauma. The mechanisms for these alcohol-induced effects on tissue injury and repair are currently not fully understood. NIAAA is especially interested in integrative research that elucidates alcohol’s effects on complex mechanisms of injury and repair that are either common or specific to each organ system. This FOA also encourages the study of alcohol’s effect on stem cells, embryonic development, and regeneration. Also encourages are studies on molecular and cellular actions of moderate alcohol consumption. A better understanding of these underlying mechanisms may provide new avenues for developing more effective and novel approaches for prognosis, diagnosis, intervention, and treatment of alcohol-induced organ damage. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-124, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Strengthening Adherence to Antiretroviral-Based HIV Prevention and Treatment (R01)

National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID), National Institute of Mental Health (NIMH)


Contact: Varies with research interest

Solicitation number: PA-14-126

This FOA encourages research to understand and promote adherence to antiretroviral (ARV) regimens for HIV treatment and prevention. Studies addressing pre-exposure prophylaxis (PrEP) and antiretroviral therapy (ART) are the foci of this FOA. The overarching emphasis is on the development of feasible interventions to improve and sustain PrEP or ART adherence which could be rapidly implemented in clinical, community, and policy environments to improve HIV treatment and prevention outcomes. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-125, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Targeted Basic Behavioral and Social Science and Intervention Development for HIV Prevention and Care (R01)

National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID), National Institute of Mental Health (NIMH)

Contact: Varies with research interest

Solicitation number: PA-14-127

The goal of this FOA is to provide a global outline of areas for innovative, targeted basic behavioral and social science research and intervention development research to reduce the number of new HIV infections and improve the overall health of those living with HIV and encourage research grant applications in these areas. This FOA encourages research designed to (a) conduct basic behavioral and social science research that is needed to advance the development of HIV prevention and care interventions, (b) translate and operationalize the findings from these basic studies to develop interventions and assess their feasibility and (c) conduct tests of the efficacy of HIV prevention and care interventions. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-128, that utilizes the R21 Exploratory/Developmental Grant mechanism.

A Family-Centered Self-Management of Chronic Conditions (R01)

National Institutes of Health, National Institute of Nursing Research (NINR)

Contact: Karen Huss, 301/594-5970, hussk@mail.nih.gov

Solicitation number: PA-14-112

The purpose of this FOA is to encourage research that seeks to build the science of family-centered self-management (FCSM) in chronic conditions. Examples of approaches to this opportunity are as follows but are not limited to: 1) Develop and test FCSM interventions that promote family equilibrium for individuals with chronic conditions as well as when multiple family members have chronic conditions and are at risk of exacerbation of their illness; 2) Develop innovative research designs to determine which FCSM interventions are most efficient to include variability across developmental life stages and who will benefit most; and 3) Incorporate novel technologies for individual and family members to facilitate FCSM such as: monitoring symptom status, promoting health behavioral modifications and accessing/imparting health information. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-113, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Behavioral Interventions to Address Multiple Chronic Health Conditions in Primary Care (R01)

National Institutes of Health, Cross-Institute

Contact: Varies with research interest

Solicitation number: PA-14-114

This FOA seeks Research Project Grant (R01) applications that propose to use a common conceptual model to develop behavioral interventions to modify health behaviors and improve health outcomes in patients with comorbid chronic diseases and health conditions. Specifically, this FOA will support research in primary care that uses a multi-disease care management approach to behavioral interventions with high potential impact to improve patient-level health outcomes for individuals with three or more chronic health conditions. The proposed approach must modify behaviors using a common approach rather than administering a distinct intervention for each targeted behavior and/or condition. Diseases and health conditions can include, but are not limited to: mental health disorders (e.g., depression), diabetes, smoking, obesity, chronic pain, alcohol and substance abuse and dependence, chronic obstructive pulmonary disorder, cancer and hypertension. The maximum duration of a project period solicited under this FOA is five years.
Early Stage Development of Technologies in Biomedical Computing, Informatics, and Big Data Science

National Institutes of Health, Cross-Institute

http://grants.nih.gov/grants/guide/announcements/PA-14-155.html - Section VII. Agency Contact:

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 over a maximum project period of three years. This FOA runs in parallel with FOAs of identical scientific scope, PA-14-156, PA-14-154 and PA-14-157, that utilize the R01, R43/R44 and R41/R42 grant mechanisms, respectively.

Extended Development, Hardening and Dissemination of Technologies in Biomedical Computing, Informatics and Big Data Science

National Institutes of Health, Cross-Institute

http://grants.nih.gov/grants/guide/announcements/PA-14-156.html

Contact: Varies with research interest

Solicitation number: PA-14-156

The goal of this program announcement is to support the extended development, maintenance, testing, evaluation, hardening and dissemination of existing biomedical software. 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 and that domain researchers are consulted to make sure that the software is relevant to users. 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. The proposed work should apply best practices and proven methods for software design, construction, and implementation to extend the applicability of existing technologies in biomedical computing, informatics and big data science to a broader biomedical research community. The maximum duration of a project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-14-155, PA-14-154 and PA-14-157 that utilize the R21, R43/R44 and R41/R42 grant mechanisms, respectively.
A rich body of evidence suggests that cognitive processes are associated with particular patterns of neural activity. These data indicate that oscillatory rhythms, their co-modulation across frequency bands, spike-phase correlations, spike population dynamics, and other patterns might be useful drivers of therapeutic development for cognitive improvement in neuropsychiatric disorders. This initiative encourages applications to test whether modifying electrophysiological patterns during behavior can improve cognitive abilities. Applications should use experimental designs that incorporate active manipulations to address at least one, and ideally more, of the following topics: (1) in behaving animals, determine which parameters of neural coordination, when manipulated in isolation, improve particular aspects of cognition; (2) in animals or humans, determine how particular abnormalities at the cellular or molecular level, such as specific receptor dysfunction, affect the coordination of electrophysiological patterns during behavior; (3) determine whether in vivo, systems-level electrophysiological changes in behaving animals predict analogous electrophysiological and cognitive improvements in normal humans or clinical populations; and (4) use systems-level computational modeling to develop a principled understanding of the function and mechanisms by which oscillatory and other electrophysiological temporal dynamic patterns unfold across the brain (cortically and subcortically) to impact cognition. Projects are limited to five years in duration. This FOA runs in parallel with a FOA of identical scientific scope, PAR-14-158, that utilizes the R21 Exploratory/Developmental Grant mechanism.

This FOA encourages research grant applications (R01) from institutions/organizations that propose to investigate the basic science and mechanisms of action underlying the neurophysiological (especially the central nervous system responses), immunological, endocrinological and/or biomechanical consequences of manual therapies, such as spinal manipulation, mobilization and massage therapy. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-168, that utilizes the R21 Exploratory/Developmental Grant mechanism.

This FOA seeks to support collaborative clinical studies, not involving treatment development, efficacy, or effectiveness trials. Primary areas of focus include mental health genetics, biomarker studies, and studies of mental illnesses (e.g. psychopathology, neurodevelopmental trajectories of psychopathology). Applicants should respond to this FOA when two or more sites are needed to complete the study. Accordingly, the collaborating studies share a specific protocol across the sites and are organized as such in order to increase sample size, accelerate recruitment, or increase sample diversity and representation. In studies with a large number of sites, it is expected that one site will be submitted as a coordinating site for data management and/or other centralized administration. For a linked set of collaborative R01s, each site has its own Program Director/Principal Investigator and the program provides a mechanism for cross-site coordination, quality control, database management, statistical analysis, and reporting. The maximum project period is five years.
Research on Psychopathology In Intellectual Disabilities (R01)

National Institutes of Health, National Institute of Mental Health (NIMH)


Contact: Lisa Gilotty, 301/443-3825, gilottyl@mail.nih.gov

Solicitation number: PA-12-219

The purpose of this FOA issued by the National Institute of Mental Health (NIMH), National Institutes of Health (NIH), is to invite grant applications for research designed to elucidate the epidemiology, etiology, treatment, and prevention of mental disorders, including emotional and behavioral problems, in persons of any age with intellectual disabilities. Although intellectual disabilities and autism often co-occur, other separate FOAs are intended for investigators interested in autism: “Research on Autism and Autism Spectrum Disorders” under the NIH Research Project Grant (R01) (PA-10-158), the NIH Small Research Grant (R03) (PA-10-159), and the NIH Exploratory/Developmental Grant (R21) (PA-10-160) award mechanisms. The maximum project period is five years.

Healthy Habits: Timing for Developing Sustainable Healthy Behaviors in Children and Adolescents (R01)

National Institutes of Health, National Institute of Nursing Research (NINR)


Contact: Varies with research interest

Solicitation number: PA-14-177

This FOA seeks to encourage applications that employ innovative research to identify mechanisms of influence and/or promote positive sustainable health behavior(s) in children and youth (birth to age 21). Applications to promote positive health behavior(s) should target social and cultural factors, including, but not limited to: schools, families, communities, population, food industry, age-appropriate learning tools and games, social media, social networking, technology and mass media. Topics to be addressed in this announcement include: effective, sustainable processes for influencing young people to make healthy behavior choices; identification of the appropriate stage of influence for learning sustainable lifelong health behaviors; the role of technology and new media in promoting healthy behavior; identification of factors that support healthy behavior development in vulnerable populations, identification of barriers to healthy behaviors; and, identification of mechanisms and mediators that are common to the development of a range of habitual health behaviors. Given the many factors involved in developing sustainable health behaviors, applications from multidisciplinary teams are strongly encouraged. The ultimate goal of this FOA is to promote research that identifies and enhances processes that promote sustainable positive behavior or changes social and cultural norms that influence health and future health behaviors. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-176, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Long-Term Retention in Care for U.S. Substance Using Populations (R01)

National Institutes of Health


Contact: Will Aklin, 301/443-3207, aklinwm@nida.nih.gov

Solicitation number: PA-14-224

The purpose of this FOA is to encourage research on long-term retention in care leading to sustained viral suppression among substance abusers. Award amount is dependent upon the needs of proposed project for a maximum project period of five years. Examples of studies under this initiative include but are not limited to: 1) Research to identify the key elements of peer navigation; 2) Comparative effectiveness studies of different retention approaches; and 3) Studies that look at multiple barriers to care (individual, network, structural) and approaches to address them. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-223 and PA-14-222, that utilizes the R21 Exploratory/Developmental Grant and the R34 Planning Grant mechanisms, respectively.
Research on Chronic Overlapping Pain Conditions (R01)

National Institutes of Health
http://grants.nih.gov/grants/guide/pa-files/PA-14-244.html - Section VII. Agency

Contact: Linda Porter, 301/451-4460, lp216a@nih.gov

Solicitation number: PA-14-244

The purpose of this FOA is to encourage epidemiological, clinical and translational research that will increase our understanding of the natural history, prevalence, biological mechanisms, psychological variables, and clinical risk factors responsible for the presence of multiple chronic pain conditions in people with pain. Recent clinical findings suggest that substantial overlap may exist between chronic pain conditions. Individuals diagnosed with one disorder often exhibit characteristics of additional chronic painful conditions or transition to other diagnostic categories. A better understanding is needed of the prevalence of overlapping pain conditions, the underlying etiologies, the progression of these conditions, the evolution of these overlaps, and the therapeutic approaches best suited for treating subjects with these conditions. The main objective of this FOA is the formation of research groups with interests bridging expertise in pain mechanisms with translational and clinical expertise to address important unresolved questions about overlapping pain conditions. Applicants are encouraged to leverage existing and develop new resources pertinent to the study of these conditions. Applicants are encouraged to include researchers with complementary expertise from outside the pain field in their research teams who will enhance the breadth of research and understanding of comorbid chronic pain conditions. The maximum award reflect the needs of the proposed project and has a maximum duration of five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-243, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Longitudinal Assessment of Post-traumatic Syndromes

National Institutes of Health

Contact: Farris Tuma, 301/443-3648, ftuma@nih.gov

Solicitation number: RFA-MH-15-110

This FOA encourages cooperative research project grant (U01) applications for a multi-site, longitudinal research platform to 1) characterize post-traumatic trajectories based on dimensions of observable behavior, neurobiological changes, and other measures that may serve as markers of risk (e.g., neural network functional connectivity, cognitive functioning, emotion regulation, biomarkers of immune response) among adult trauma patients initially seen in emergency rooms and other acute trauma settings, 2) examine processes or mechanisms whereby post-trauma mental illness develops and is maintained, 3) develop algorithms to be used in the acute post-trauma time period to predict different trajectories, and 4) develop/refine measures of promising targets for future prevention and early treatment studies. Budgets may not exceed $5M total costs in any one year for a maximum of five years.

Enhancing Cross-National Research within the Health and Retirement Study Family of Studies (R01)

National Institutes of Health

Contact: John Phillips, 301/496-3138, John.Phillips@nih.gov

Solicitation number: RFA-AG-15-015

The purpose of this announcement is to enhance comparability among a specific group of measures in the US Health and Retirement Study and the family of comparable longitudinal aging studies around the world. For the purposes of this FOA, the specific measures are cognition and dementia assessment; personality and non-cognitive-character-skills; social isolation and loneliness; physical activity; and life histories. Enhancing the comparability of these measures will support cross-national behavioral and social research in aging in areas that are of a high priority to the Division of Behavioral and Social Research at National Institute on Aging. Responsive applications will propose activities such as pilot studies; calibration to gold standard measures; or methods to increase item, measure, or construct comparability. The maximum award amount is $350K per year for up to five years.
**2014 NIH Pioneer Award Program (DP1)**
National Institutes of Health


Contact: Ravi Basavappa, 301/435-7204, PioneerAwards@mail.nih.gov

Solicitation number: RFA-RM-13-006

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 $500K 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.

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**NCI Mentored Research Scientist Development Award to Promote Diversity (K01)**
National Institutes of Health


Contact: John Ojeifo, 240/276-6186, ojeifoj@mail.nih.gov

Solicitation number: PAR-12-050

The purpose of the NCI Mentored Research Scientist Development Award (K01) is to provide support and protected time (three, four, or five years) for an intensive, supervised career development experience in the biomedical, behavioral, or clinical sciences leading to research independence. The Diversity Training Branch (DTB) of the Center to Reduce Cancer Health Disparities (CRCHD), at the National Cancer Institute (NCI), invites career development award applications (K01) from individuals representative of groups that have been shown to be underrepresented in health-related science, who have been recipients of an NIH Research Supplement to Promote Diversity Award, any Ruth L. Kirschstein National Research Service Award (individual F31/F32 or institutional T32), or can demonstrate that they have been supported in a mentored capacity within any research grant equivalent to an NIH peer-reviewed research grant (e.g., American Cancer Society [ACS] research grant). Candidates with clinical degrees (e.g., MD) may wish to consider the NCI Mentored Clinical Scientist Award to Promote Diversity Award (K08) and candidates interested in patient-oriented research may wish to consider the NCI Mentored Patient-Oriented Research to Promote Diversity Award (K23) as more appropriate alternatives relative to their stage of development and career goals. The maximum project period is five years.

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**Interventions for Youth who Misuse/Abuse Prescription Stimulant Medications in High School and/or College-Atte**
National Institutes of Health


Contact: Geetha Subramaniam, 301/435-0974, geetha.subramaniam@nih.gov

Solicitation number: RFA-DA-15-010

This FOA solicits U01 applications conducting either hypothesis-driven or hypothesis-generating controlled research to build an evidence base to address the problem of prescription stimulant medication (PSM) misuse in youth. Specifically this FOA solicits research applications that develop and test the efficacy of interventions to either prevent or reduce the misuse and diversion of PSMs among high school students and/or college students. Animal studies and epidemiological research will be considered unresponsive. The maximum project period is five year with an award amount that must reflect the needs of the project.
The Role of Microbial Metabolites in Cancer Prevention and Etiology (U01)
National Institutes of Health, National Cancer Institute (NCI), National Center for Complementary and Alternative Medicine (NCC

Contact: Varies with research interest
Solicitation number: PAR-13-159

This FOA encourages grant applications that characterize the effects of microbially generated metabolites of dietary components on host cell biology. Specifically, this FOA seeks to characterize microbially generated metabolites and better understand their molecular mechanisms of action that affect host cell proliferative/apoptotic responses, cytokine production, inflammatory and immunomodulatory effects. All applications must include multiple principal investigators with different areas of expertise such as microbiology, nutrition, cancer biology, analytical chemistry, or genetics. Investigators may use either clinical or preclinical approaches. The maximum project period is five years.

Pilot Studies in Pancreatic Cancer (R21)
National Institutes of Health, National Cancer Institute (NCI)

Contact: Varies with research interest
Solicitation number: PA-11-297

This FOA encourages the submission of Research Project Grant (R21) applications that propose to promote innovative research across multiple disciplines for a better understanding of the biology, etiology, detection, prevention, and treatment of pancreatic cancer. Direct costs are limited to $275K over a two-year project period. This FOA runs in parallel with a FOA of identical scientific scope, PA-11-298, which utilizes the R03 Small Grant Program mechanism.

Imaging - Science Track Award for Research Transition (I-START) [R03]
National Institutes of Health, National Institute on Drug Abuse (NIDA)

Contact: Steven Grant, 301/443-4877, sgrant@nida.nih.gov
Solicitation number: PAR-12-066

This FOA encourages Small Research Grant (R03) applications to facilitate the entry of investigators to the area of neuroimaging, including both new investigators and established investigators seeking to adopt neuroimaging methodologies in their research programs. The R03 is intended to support small research projects that can be carried out in a short period of time with limited resources. Budgets for direct costs of up to $150K over a period of one year only may be requested.

Exploratory & Developmental Bioengineering Research Grants (EBRG) [R21]
National Institutes of Health, Cross-Institute

Contact: Varies with research interest
Solicitation number: PA-12-284

The purpose of this FOA is to encourage Exploratory/Developmental Bioengineering Research Grants (EBRG) applications which establish the feasibility of technologies, techniques or methods that: 1) explore a unique multidisciplinary approach to a biomedical challenge; 2) are high-risk but have a considerable pay-off; and 3) develop data which can lead to significant future research. An EBRG application may propose hypothesis-driven, discovery-driven, developmental, or design-directed research and is appropriate for evaluating unproven approaches for which there is minimal or no preliminary data. Direct costs are limited to $275K over a two-year period, with no more than $200K in direct costs allowed in any single year. This FOA runs in parallel with a FOA of identical scientific scope, PAR-10-234, which utilizes the R01 Bioengineering Research Partnerships mechanism.
**Selected Topics in Transfusion Medicine (R21)**

National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)


Contact: Shimian Zou, 301/435-0065, zousn@nhlbi.nih.gov

Solicitation number: PAR-13-025

This FOA encourages research grant applications from investigators who propose to study research topics in blood banking and transfusion medicine aimed at improving the safety and availability of the blood supply and the practice of transfusion medicine. Specifically, research focused on improving blood donor health, the safety and availability of blood products, and improving the practice of transfusion medicine is critical to public health. Research designed to better understand the determinants of transfusion-associated adverse events and how best to minimize transfusion risks is also important. Research is also needed to maintain an adequate blood supply by minimizing the risks associated with the donation process and developing enhanced recruitment and retention programs. The total project period for an application submitted in response to this funding opportunity may not exceed two years. Direct costs are limited to $275K over an R21 two-year period, with no more than $200K in direct costs allowed in any single year.

**NEI Research Grant for Secondary Analysis (R21)**

National Institutes of Health, National Eye Institute (NEI)


Contact: Varies with research interest

Solicitation number: PAR-13-035

This FOA encourages applications from institutions/organizations that propose to conduct secondary data analyses utilizing existing database resources. Applications may be related to, but must be distinct from, the specific aims of the original data collection. The NEI supports an extensive portfolio of clinical trials and large-scale epidemiologic research projects, wherein numerous data collection activities are required to meet each project's specific aims. The resultant wealth of data generated by these studies often provides unique, cost-effective opportunities to investigate additional research questions or develop new analytical approaches secondary to a project's originally-intended purpose. Data are not limited to those collected under NEI support but such data are of the highest programmatic interest. The R21 may be used to develop new statistical methodologies or to test hypotheses using existing data, but this FOA may not be used to support the collection of new data. The combined budget for direct costs for the two-year project period may not exceed $275K. No more than $200K may be requested in any single year. The maximum project period is two years.

**NIDCR Small Research Grants for Data Analysis and Statistical Methodology Applied to Genome-wide Data (R03)**

National Institutes of Health, National Institute of Dental and Craniofacial Research (NIDCR)


Contact: Emily Harris, 301/594-4846, emily.harris@nih.gov

Solicitation number: PAR-13-044

The NIDCR, and other NIH Institutes/Centers, support genome-wide studies relevant to human dental or craniofacial conditions or traits. The genotype and phenotype data are available through the NIH (e.g., dbGaP) and/or through the parent study. The resultant wealth of data generated by these studies often provides unique, cost-effective opportunities to investigate additional research questions, apply new analytic methods, combine data across studies to more powerfully address research questions, or develop new analytical approaches. This mechanism may be used to support secondary analyses of data derived from NIDCR-funded studies or of data derived from other sources. Experimental validation of new methods or statistical analyses may be proposed, but the focus of the project should be on statistical methods development or secondary data analysis. The purpose of this FOA is to provide support for meritorious research projects that involve secondary data analyses of genome-wide data (e.g., existing data from genome-wide association studies), relevant to human dental or craniofacial conditions or traits. Development of statistical methodology appropriate for analyzing genome-wide data, relevant to human dental or craniofacial conditions or traits, may also be proposed. Budgets for direct costs of up to $200K per year and a project duration of up to two years may be requested for a maximum of $300K direct costs over a two-year project period.
**Indo-U.S. Vaccine Action Program (VAP) Small Research Grant Program (R03)**

National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)


Contact: Edward McSweegan, 301/402-8370, emcsweegan@niaid.nih.gov

Solicitation number: PA-13-179

Applications are encouraged from organizations/institutions that propose to conduct vaccine-related research through U.S.-Indo collaborations on the following: dengue, influenza (including avian influenza), malaria, enteric diseases, HIV/AIDS, and tuberculosis. Basic, translational, clinical, or epidemiological vaccine research may be proposed. Budgets for direct costs of up to $50K per year and a project duration of up to two years may be requested for a maximum of $100K direct costs over a two-year project period.

**The Role of Extracellular RNA in Mediating the Health Effects of Alcohol (R21)**

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Philip Brooks, 301/402-0883, pjbrooks@mail.nih.gov

Solicitation number: PA-13-197

The purpose of this FOA is to provide support for innovative research into the role of extracellular RNA (exRNA) in the development of alcohol-related diseases and end-organ injuries. As used here, the term exRNA refers to RNA molecules circulating outside of cells, either within vesicles or associated with carrier molecules. It is anticipated that this FOA will generate data that may lead to breakthroughs in our understanding of the role of exRNA communication in the initiation, progression and maintenance of the diverse medical disorders caused by excessive, long-term alcohol consumption. In the future this knowledge may be critical in the diagnosis, treatment and management of vulnerable patient populations debilitated by the vast array of alcohol-induced pathologies and enable clinicians to improve disease outcomes and, consequently, public health. In addition, research supported by this FOA may also provide information on the mechanistic basis of the health benefits of moderate alcohol consumption. Direct costs may not exceed $200K in any year or $275K over the 2 year project period.

**Aging Research Dissertation Awards to Increase Diversity (R36)**

National Institutes of Health, National Institute on Aging (NIA)


Contact: Chyren Hunter, 301/402-4158, hunterc@nia.nih.gov

Solicitation number: PAR-13-152

Substantial evidence indicates that biomedical research, including research on aging in particular, will benefit from broader representation of individuals from diverse ethnic, cultural, and socioeconomic backgrounds. As part of NIA’s Health Disparities Strategic Plan, this Funding Opportunity Announcement announces the availability of dissertation awards (R36) to support individuals whose advancement in research will help ensure that a diverse pool of highly trained scientists is available in scientific disciplines relevant to NIA’s strategic priorities to address NIA’s mission. That mission includes research on the basic biology of aging, on chronic, disabling, and degenerative diseases of aging, with a particular focus on Alzheimer’s Disease, on multiple morbidities, on individual behavioral and social changes with aging, on caregiving, on longevity, and on the consequences for society of an aging population. Total allowable costs per year are the current Fiscal Year National Research Service Award (NRSA) predoctoral stipend level and up to $20K for additional expenses. Support will be provided for up to two years.
Research on the Health Determinants and Consequences of Violence and its Prevention, Particularly Firearm Viole

National Institutes of Health, National Institute of Mental Health (NIMH), National Institute on Alcohol Abuse and Alcoholism (NIAAA)

Contact: Varies with research interest

Solicitation number: PA-13-368

This FOA spans across the missions of several NIH Institutes and Centers and Offices, and includes basic neuroscience and basic behavioral research, clinical and translational studies, intervention development at the individual, family and community level, efficacy trials of interventions based on evidence from basic and translational studies, and research to identify the best ways to disseminate and implement efficacious and evidence-based interventions in real-world settings. While this FOA covers all of the areas mentioned above, particular consideration will be given to applications that propose studies of the intersection that focus on the various types of violence (homicide, suicide, youth and gang-related, intimate partner) and firearms. A maximum of $100K over two years in four modules of $25K each may be requested. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-363 and PA-13-369, that utilize the R01 Research Project Grant and R21 Exploratory/Developmental Grant mechanisms, respectively.

2014 NIH Directors New Innovator Award Program (DP2)

National Institutes of Health


Contact: Ravi Basavappa, 301/594-8190, NewInnovatorAwards@mail.nih.gov

Solicitation number: RFA-RM-13-007

This FOA supports a small number of early stage investigators of exceptional creativity who propose bold and highly innovative new research approaches that have the potential to produce a major impact on broad, important problems in biomedical and behavioral research. The New Innovator Award initiative complements ongoing efforts by NIH and its Institutes and Centers to fund early stage investigators through R01 grants, which continue to be the major sources of NIH support for early stage investigators. The NIH Director’s New Innovator Award initiative is a component of the High Risk - High Reward Research Program of the NIH Common Fund. Awards will be for up to the equivalent of $300K 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.

Revisions for Early-Stage Development of Informatics Technology (R01)

National Institutes of Health, National Cancer Institute (NCI)


Contact: Varies with research interest

Solicitation number: PAR-12-286

The purpose of this FOA is to encourage revision applications (formerly called "competing revisions") from currently funded NCI R01 and R37 (MERIT) research projects for early-stage development of enabling informatics technologies to improve the acquisition, management, analysis, and dissemination of data and knowledge. As a component of the NCI's Informatics Technology for Cancer Research (ITCR) Initiative, this FOA aims to promote interdisciplinary collaboration in the development of innovative computational methods and informatics approaches that are essential for cancer research on all fronts to accelerate scientific discovery and ultimately translate data into knowledge and clinical practice. Applications that focus on data processing and analysis or mathematical/statistical modeling alone without new technology development are not appropriate for this FOA.

This FOA encourages applications that involve the development of innovative and user-friendly informatics technologies of significant value to the whole spectrum of cancer research from bench to bedside. The emphasis will be on novelty, uniqueness, and potential impact to the parent project and the broader cancer research field. The amount of requested budget may not exceed $150K Direct Costs per year for up to two years. This FOA runs in parallel with FOAs of identical scientific scope: 1) PAR-12-289, which utilizes the U01 Research Project – Cooperative Agreements mechanism; 2) PAR-12-290, which utilizes the P01 Program Project Grant mechanism; 3) PAR-12-288, which utilizes the U01 Research Project - Cooperative Agreements mechanism; and 4) PAR-12-287, which utilizes the U24 Resource-Related Research Projects - Cooperative Agreements mechanism.
Early-Stage Development of Informatics Technology (U01)
National Institutes of Health, National Cancer Institute (NCI)
Contact: Varies with research interest
Solicitation number: PAR-12-288
The purpose of this FOA is to invite Cooperative Agreement (U01) applications for the development of enabling informatics technologies to improve the acquisition, management, analysis, and dissemination of data and knowledge in cancer research. As a component of the NCI's Informatics Technology for Cancer Research (ITCR) Initiative, this FOA focuses on early-stage development from prototyping to hardening and adaptation. The central mission of the ITCR is to promote research-driven informatics technology development. In order to be successful, proposed development plans must have a clear rationale on why the proposed technology is needed and how it will benefit the cancer research community. In addition, mechanisms to solicit feedback from users and collaborators throughout the development process should be included. Applications that focus on data processing and analysis or mathematical/statistical modeling alone without new technology development are not appropriate for this FOA. The amount of requested budget may not exceed $250K Direct Costs (excluding consortium F&A costs) per year for up to three years. This FOA runs in parallel with FOAs of identical scientific scope: 1) PAR-12-286, which utilizes the R01 Research Project Grant mechanism; 2) PAR-12-289, which utilizes the U01 Research Project - Cooperative Agreements mechanism; 3) PAR-12-290, which utilizes the P01 Program Project Grant mechanism; and 4) PAR-12-287, which utilizes the U24 Resource-Related Research Projects - Cooperative Agreements mechanism.

Diabetes Impact Award-Closed Loop Technologies: Development and Integration of Novel Components for an Auto
National Institutes of Health
Contact: Guillermo Arreaza-Rubín, 301/594-4724, arreazag@mail.nih.gov
Solicitation number: RFA-DK-12-021
This initiative encourages applications from institutions/organizations proposing groundbreaking original research to develop a highly reliable, wearable, portable, and easy to operate system linking continuous glucose monitoring and pancreatic hormones delivery in a closed loop system to improve glucose control and quality of life of patients with diabetes. This FOA will give preference to cutting edge research leading to the development of a new generation of devices engineered to maintain euglycemia and avoid hypoglycemia. The goal is to address barriers that limit progress toward a closed loop system tackling the most important obstacles at the level of sensing, hormone delivery and the design of proper controllers/algorithms able to manage an integrated platform adaptable to remote monitoring when needed. The maximum award amount is for $2.5M for a maximum of five years. This FOA runs in parallel with a FOA of identical scientific scope, RFA-DK-14-014, that utilizes the DP3 Type 1 Diabetes Targeted Research Award mechanism.

Diabetes Impact Award-Closed Loop Technologies: Clinical, Physiological and Behavioral Approaches to Improve Ty
National Institutes of Health
Contact: Guillermo Arreaza-Rubín, 301/594-4724, arreazag@mail.nih.gov
Solicitation number: RFA-DK-12-020
This FOA encourages applications from institutions/organizations proposing human studies to develop and/or test a highly reliable, wearable, portable, easy to operate system linking continuous glucose monitoring and pancreatic hormone delivery in a closed loop system. This research is intended to improve glucose control and quality of life of patients with type 1 diabetes. Only human studies will be considered responsive to this FOA. The maximum award amount is up to $2.5M for a maximum of five years. This FOA runs in parallel with a FOA of identical scientific scope, RFA-DK-14-015, that utilizes the DP3 Type 1 Diabetes Targeted Research Award mechanism.
NIDCD Small Grant Program (R03)
National Institutes of Health, National Institute on Deafness and Other Communication Disorders (NIDCD)
Contact: Varies with research interest
Solicitation number: PAR-13-057
This program is intended to support basic and clinical research of scientists who are beginning to establish an independent research career. The research must be focused on one or more of the areas within the mission of the NIDCD: hearing, balance/vestibular, smell, taste, voice, speech, or language. The R03 grant mechanism supports different types of projects including secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. Applications may be submitted for up to $100K in direct costs per year for up to three years.

Evaluating Natural Experiments in Healthcare to Improve Diabetes Prevention and Treatment (R18)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Varies with research interest
Solicitation number: PAR-13-365
The purpose of this FOA is to support research to evaluate large scale policies or programs related to healthcare delivery that are expected to influence diabetes prevention and care. This FOA is not intended to support the initiation and delivery of new policies or programs. Research support is for the evaluation of the effectiveness of healthcare programs and/or policies implemented independent of NIH grant funding. The goal is to support research that meaningfully informs clinical practice and health policy related to prevention or management of diabetes. Awards covering total project direct costs should generally be less than $500K over a maximum five-year project period.

Pragmatic Research in Healthcare Settings to Improve Diabetes Prevention and Care
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Varies with research interest
Solicitation number: PAR-13-366
The purpose of this FOA is to support research to test approaches to improve diabetes treatment and prevention in existing healthcare settings. Applications are sought that test practical and potentially sustainable strategies, delivered in routine clinical care settings, to improve processes of care and health outcomes of individuals who are at risk for or have diabetes. The goal is that the research results will improve routine clinical practice and inform policy in representative healthcare settings. Awards covering total project direct costs should generally be less than $500K over a maximum five-year project period. This FOA runs in parallel with a FOA of identical scientific scope, PAR-13-367, that utilizes the R34 Planning Grant mechanism.

Planning Grants for Pragmatic Research in Healthcare Settings to Improve Diabetes Prevention and Care
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Varies with research interest
Solicitation number: PAR-13-367
The purpose of this FOA is to support research to develop and pilot test approaches to improve diabetes treatment and prevention in existing healthcare settings. Applications should pilot test practical and potentially sustainable strategies, delivered in routine clinical care settings, to improve processes of care and health outcomes of individuals who are at risk for or have diabetes. The goal is that, if the pilot study shows promise, the data from the R34 will be used to support a full scale trial that could improve routine clinical practice and inform policy in representative healthcare settings. Direct costs of up to $150K per year are allowed over a maximum two-year project period. This FOA runs in parallel with a FOA of identical scientific scope, PAR-13-366, that utilizes the R18 Research Demonstration and Disseminations Projects mechanism.

National Science Foundation (NSF)
**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.

**ADVANCE Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers**

National Science Foundation, Cross-Directorate


Contact: Kelly Mack, 703/292-8575, kmack@nsf.gov

Solicitation number: NSF 12-584

The goal of the ADVANCE program is to develop systemic approaches to increase the representation and advancement of women in academic science, technology, engineering and mathematics (STEM) careers, thereby contributing to the development of a more diverse science and engineering workforce. For this deadline, the program will support Institutional Transformation (IT) awards. IT awards are expected to include innovative systemic organizational approaches to transform institutions of higher education in ways that will increase the participation and advancement of women in STEM academic careers. These awards support comprehensive programs for institution-wide change. NSF expects to make approximately seven Institutional Transformation five-year awards, at various award sizes. OR has not received any notices of intent. Contact funding@research.ucsb.edu if you are interested in submitting.
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.

SBE Doctoral Dissertation Research Improvement Grants (SBE DDRIG)
National Science Foundation, Social, Behavioral, and Economic Sciences (SBE)
Contact: Varies with research interest
Solicitation number: NSF 11-547
The National Science Foundation's Division of Behavioral and Cognitive Sciences (BCS) awards grants to doctoral students to improve the quality of dissertation research. These grants provide funds for items not normally available through the student's university and allow doctoral students to undertake significant data-gathering projects and to conduct field research in settings away from their campus that would not otherwise be possible. Proposals are judged on the basis of their scientific merit, including the theoretical importance of the research question and the appropriateness of the proposed data and methodology to be used in addressing the question. The following Programs support dissertation research: Archaeology, Cultural Anthropology, Documenting Endangered Languages, Geography and Spatial Sciences, Linguistics, Biological Anthropology, Decision, Risk and Management Sciences, Economics, Law and Social Science, Methodology, Measurement, and Statistics, Political Science, Science, Technology, and Society, Sociology, Research on Science and Technology Surveys and Statistics Program, and Science of Science and Innovation Policy.

OFR-NSF Partnership in Support of Research Collaborations in Finance Informatics
National Science Foundation
Contact: Vasant Honavar, vthonavar@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.
Networking Technology and Systems (NeTS - JUNO)

The National Science Foundation (NSF) and the National Institute of Information and Communications Technology (NICT) of Japan have agreed to embark on a collaborative research program to address compelling research challenges that arise from networks supporting future demands of device proliferation and data objects. This NSF solicitation parallels an equivalent NICT solicitation. Proposals submitted under this solicitation must describe joint research with Japanese counterparts who are requesting funding separately under the NICT solicitation. This research and development program addresses three specific challenges that arise when environments with trillions of device and information objects are connected via networks: 1) Network Design and Modeling; 2) Mobility; and 3) Optical Networking. Each award may be up to $300K over three years.

8/20/2014  Full Proposal

Solar, Heliospheric, and Interplanetary Environment (SHINE)

Proposals are solicited for research directly related to topics under consideration and discussion at community workshops organized by SHINE. Information on the current activities of SHINE may be found at the following web site: http://www.shinecon.org. Under this solicitation, proposals may be submitted for any funding amount up to $200K per year.

8/20/2014  Site Proposal (except Antarctica)

Research Experiences for Undergraduates (REU) Sites and Supplements

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. 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 may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. (2) REU Supplements may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects. 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.

8/25/2014  Full Proposal

EarthScope

EarthScope is an Earth science program to explore the 4-dimensional structure of the North American continent. The program provides a framework for broad, integrated studies across the Earth sciences, including research on fault properties and the earthquake process, strain transfer, magmatic and hydrous fluids in the crust and mantle, plate boundary processes, large-scale continental deformation, continental structure and evolution, and composition and structure of the deep Earth. In addition, EarthScope offers a centralized forum for Earth science education at all levels and an excellent opportunity to develop cyberinfrastructure to integrate, distribute, and analyze diverse data sets.
**Science and Technology Centers - Integrative Partnerships 2014 - Limited Submission**

The National Science Foundation will be releasing the new solicitation for Science and Technology Centers (STC) shortly. The Office of Research is initiating the campus limited submission process before the solicitation comes out so that the campus teams will have more time to prepare before the NSF due dates. Based on recent discussions with the NSF, the upcoming solicitation should not vary significantly from the last solicitation released in 2011 (see [http://www.nsf.gov/pubs/2011/nsf11522/nsf11522.htm](http://www.nsf.gov/pubs/2011/nsf11522/nsf11522.htm)), which states that each institution may submit up to three preliminary proposals.

**Partnerships for International Research and Education (PIRE) 2015 - Limited Submission**

PIRE is an NSF-wide program that supports fundamental, international research and education in physical, living, human, and engineered systems. PIRE awards enable research at the leading edge of science and engineering by facilitating partnerships with others nationally and internationally, by educating and preparing a diverse, world-class STEM workforce, and by fostering institutional capacity for international collaboration. This agenda is designed to encourage high-risk/high-reward activities and the pursuit of potentially transformative ideas. This fifth round of the PIRE competition will be open to all areas of science and engineering research which are supported by the NSF (including Education research). Interdisciplinary proposals are encouraged. The average award size is expected to be approximately $4m over 5 years.

**Cognitive Neuroscience**

The Cognitive Neuroscience program seeks highly innovative proposals aimed at advancing a rigorous understanding of how the human brain supports thought, perception, affect, action, social processes, and other aspects of cognition and behavior. Topics may bear on core functions such as sensory, learning, language, reasoning, emotion, and executive processes, or more specialized processes such as empathy, creativity, representation of self and other, or intentionality, among many other possibilities. Topics may also include how such processes develop and change in the brain. The program is particularly interested in supporting the development of new techniques and technologies for recording, analyzing, and modeling complex brain activity. Studies of disease states (e.g., brain damaged patients) may be components of projects supported by this program. The program also intends to foster projects that integrate perspectives across disciplines, e.g., from the cognitive sciences, developmental sciences, biology, computer science, engineering, education, anthropology, physics, mathematics and statistics.
Research on Gender in Science and Engineering (GSE)

National Science Foundation, Education and Human Resources (EHR)

Contact: Jolene Jesse, 703/292-7303, jjesse@nsf.gov
Solicitation number: NSF 10-516

The GSE program supports efforts to understand and address gender-based differences in science, technology, engineering, and mathematics education and workforce participation through research projects. Behavioral, cognitive, affective, learning, and social differences may be investigated using methods of sociology, psychology, anthropology, economics, statistics, and other social and behavioral science and education disciplines. Research projects investigate gender-based factors that impact learning and choice in STEM education and the workforce; or study societal, formal and informal educational systems' interaction with individuals that encourage or discourage interest and persistence in study or careers in certain STEM fields along gender lines. Diffusion of Research-Based Innovation projects provide a mechanism for engaging a wider audience of practitioners with research findings and strategies for changing educational practice relative to gender issues. There are three types of Diffusion awards: Pilot, Scale Up, and Dissemination. Extension Services create a cadre of extension service agents through training and consulting services to inform educators and other practitioners about and enable them to adopt and embed proven gender-inclusive policies and practices.

Science of Organizations (SoO)

National Science Foundation, Social, Behavioral, and Economic Sciences (SBE)
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504696

Contact: Jacqueline Meszaros, 703/292-7261, jmeszaro@nsf.gov
Solicitation number: PD 11-8031

This program funds basic research that yields a scientific evidence base for improving the design and emergence, development and deployment, and management and ultimate effectiveness of organizations of all kinds. Successful research proposals use scientific methods to develop and refine theories, to empirically test theories and frameworks, and to develop new measures and methods. Funded research is aimed at yielding generalizable insights that are of value to the business practitioner, policy-maker, and research communities.

Geography and Spatial Sciences Program (GSS) 2014

National Science Foundation

Contact: Thomas Baerwald, 703/292-7301, tbaerwal@nsf.gov
Solicitation number: NSF 14-537

As specified in the Geography and Spatial Sciences Program strategic plan, the goals of the NSF Geography and Spatial Sciences (GSS) Program are: 1) To promote scientific research in geography and the spatial sciences that advances theory and basic understanding and that addresses the challenges facing society; 2) To promote the integration of geographers and spatial scientists in interdisciplinary research; 3) To promote education and training of geographers and spatial scientists in order to enhance the capabilities of current and future generations of researchers; and 4) To promote the development and use of scientific methods and tools for geographic research. The Geography and Spatial Sciences Program sponsors research on the geographic distributions and interactions of human, physical, and biotic systems on Earth. Investigators are encouraged to propose plans for research about the nature, causes, and consequences of human activity and natural environmental processes across a range of scales. Projects on a variety of topics qualify for support if they offer promise of contributing to scholarship by enhancing geographical knowledge, concepts, theories, methods, and their application to societal problems and concerns. Regular research awards supported by GSS generally range from between $40K to $400K.
Focused Research Groups in the Mathematical Sciences (FRG)
National Science Foundation, Mathematical and Physical Sciences (MPS)
Contact: Varies with research interest
Solicitation number: NSF 12-566
The purpose of the FRG activity is to allow groups of researchers to respond to recognized scientific needs of pressing importance, to take advantage of current scientific opportunities, or to prepare the ground for anticipated significant scientific developments in the mathematical sciences. Groups may include, in addition to mathematical scientists, researchers from other science and engineering disciplines appropriate to the proposed research. The activity supports projects for which the collective effort by a group of researchers is necessary to reach the scientific goals. Projects should be scientifically focused and well-delineated. It is not the intent of this activity to provide general support for infrastructure. Projects should also be timely, limited in duration to up to three years, and substantial in their scope and impact. Proposals may be submitted for any funding amount from $150K-$500K per year.

Science of Science and Innovation Policy Doctoral Dissertation Research Improvement Grants (SciSIP-DDRIG)
National Science Foundation
Contact: Joshua Rosenbloom, 703/292-8854, jlrosenb@nsf.gov
Solicitation number: NSF 14-578
This program supports research designed to advance the scientific basis of science and innovation policy. Research funded by the program thus develops, improves and expands models, analytical tools, data and metrics that can be applied in the science policy decision making process. Among the many research topics supported are: 1) examinations of the ways in which the contexts, structures and processes of science and engineering research are affected by policy decision, 2) the evaluation of the tangible and intangible returns from investments in science and from investments in research and development, 3) the study of structures and processes that facilitate the development of usable knowledge, theories of creative processes and their transformation into social and economic outcomes, 4) the collection, analysis and visualization of new data describing the scientific and engineering enterprise. The maximum award is $20K.

Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)
National Science Foundation
Contact: Jeremy Epstein, 703/292-8950, jepstein@nsf.gov
Solicitation number: NSF 14-562
With the goal of encouraging research independence immediately upon obtaining one's first academic position after receipt of the PhD, the Directorate for Computer and Information Science and Engineering (CISE) will award grants to initiate the course of one's independent research. Understanding the critical role of establishing that independence early in one's career, it is expected that funds will be used to support untenured faculty or research scientists (or equivalent) in their first two years in an academic position after the PhD. One may not yet have received any other grants in the Principal Investigator (PI) role from any institution or agency, including from the CAREER program or any other award post-PhD. Serving as co-PI, Senior Personnel, Post-doctoral Fellow, or other Fellow does not count against this eligibility rule. It is expected that these funds will allow the new CISE Research Initiation Initiative PI to support one or more graduate students for up to two years.
Industry/University Cooperative Research Centers Program (I/UCRC)

National Science Foundation


Contact: Varies with research interest

Solicitation number: NSF 13-594

This program develops long-term partnerships among industry, academe, and government. The centers are catalyzed by a small investment from the National Science Foundation (NSF) and are primarily supported by industry center members, with NSF taking a supporting role in the development and evolution of the center. Each center is established to conduct research that is of interest to both the industry members and the center faculty. An I/UCRC not only contributes to the Nation’s research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education, but also encourages and fosters international cooperation and collaborative projects.

Hazard Mitigation and Structural Engineering (HMSE)

National Science Foundation

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13358

Contact: Kishor Mehta, 703/292-7081, kimehta@nsf.gov

Solicitation number: PD 13-1637

The Hazard Mitigation and Structural Engineering (HMSE) program supports fundamental research to mitigate impacts of natural and anthropogenic hazards on civil infrastructure and to advance the reliability, resiliency, and sustainability of buildings and other structures. Hazards considered within the program include earthquake, tsunami, hurricane, tornado and other loads, as well as explosive and impact loading. Resiliency of buildings and other structures include structural and non-structural systems that, in totality, permit continued occupation or operation in case of an impact by a hazard. Research is encouraged that integrates structural and architectural engineering advances with discoveries in other science and engineering fields, such as earth and atmospheric sciences, material science, mechanics of materials, sensor technology, high performance computational modeling and simulation, dynamic system and control, and economics. The program seeks to fund transformative and cost-effective innovations for hazard mitigation of both new and rehabilitated buildings and other structures. Research in structural and architectural engineering is encouraged that extends beyond mature or current construction materials into investigations of smart and sustainable materials and technologies, and considers the structures in their entirety. In addition, the program funds research on structural health monitoring that goes beyond data acquisition to include the holistic system, integrating condition assessment and decision making tools to improve structural performance.

Coastal SEES

National Science Foundation, Biological Sciences (BIO), Engineering (ENG), Geosciences (GEO)


Contact: Varies with research interest

Solicitation number: NSF 14-502

The Coastal SEES program is a multi-directorate program that seeks to: 1) advance understanding of fundamental, interconnected processes in coastal systems on a variety of spatial and temporal scales; 2) improve capabilities for predicting future coastal system states and impacts; and 3) identify pathways by which research results will be translated to policy and management domains and used to enhance coastal sustainability. The Coastal SEES Program seeks proposals that create inter/trans-disciplinary research teams to conduct major new integrated coastal systems research. These may include theoretical, field, laboratory and/or modeling activities. Proposal budgets should be in the range of $800K - $2M (maximum) total over a period of 3-5 years.
President Awards for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM)

PAESMEM recognizes individuals for their mentoring of persons from underrepresented racial and ethnic groups, women, persons with disabilities, persons from disadvantaged socioeconomic backgrounds, and early career scientists and engineers. Historically underrepresented racial and ethnic groups in science, technology, engineering and mathematics (STEM) fields include African-Americans, Hispanic Americans, Native Americans, Pacific Islanders, Native Hawaiians, and Native Alaskans. These are groups who might not otherwise have considered or had access to opportunities in STEM education or careers.

Nominations, including self-nominations, are invited for "Individual" and "Organizational" PAESMEM awards. Individuals and organizations in all public and private sectors are eligible including industry, academia, K-12, military and government, non-profit organizations, and foundations. Nominations are encouraged from all geographical regions in the U.S. including, its territories and particularly jurisdictions designated by Congress under NSF's Experimental Program to Stimulate Competitive Research (EPSCoR). Each "Individual" or "Organizational" PAESMEM awardee will receive a $10,000 award and a commemorative Presidential certificate. Awardees are also invited to participate in an award recognition ceremony in Washington, DC which includes meetings with STEM educators, researchers and policy leaders.

NSF DOE Partnership in Basic Plasma Science and Engineering

The goal of this three year (FY09-FY11) program initiative is to enhance plasma research and education in this broad, multidisciplinary field by coordinating efforts and combining resources of the two agencies. The initiative will address fundamental issues in plasma science and engineering that can have impact in other areas or disciplines in which improved basic understanding of the plasma state is needed. Award sizes are anticipated to range from $25K to $250K per year with a duration of up to three years, depending upon the nature of the research activity.

NSF-DOE Partnership on Advanced Frontiers in Renewable Hydrogen Fuel Production Via Solar Water Splitting Tec

The Directorate for Engineering at the National Science Foundation (NSF) has established a partnership with the Fuel Cell Technologies (FCT) Office of the U.S. Department of Energy (DOE) in order to address critical fundamental and applied research challenges associated with advanced technologies for the production of hydrogen fuel via solar water splitting processes. The goal of the partnership is to leverage the complementary missions of applied research, development and demonstration (DOE) and use-inspired fundamental research and education (NSF) to address issues of national importance that impact the sustainable production of fuels using renewable resources. Each project team may receive support up to between $150K and $250K per year for up to three years.
**NSF Astronomy and Astrophysics Postdoctoral Fellowships (AAPF)**

National Science Foundation, Mathematical and Physical Sciences (MPS)


Contact: Edward Ajhar, 703/292-5039, eajhar@nsf.gov

Solicitation number: NSF 11-559

NSF Astronomy and Astrophysics Postdoctoral Fellowships provide an opportunity for highly qualified, recent doctoral scientists to carry out an integrated program of independent research and education. Fellows may engage in observational, instrumental, theoretical, laboratory or archival data research in any area of astronomy or astrophysics, in combination with a coherent educational plan for the duration of the fellowship. The program supports researchers for a period of up to three years with fellowships that may be taken to eligible host institution(s) of their choice. The program is intended to recognize early-career investigators of significant potential and to provide them with experience in research and education that will establish them in positions of distinction and leadership in the community. The annual fellowship amount of $89K consists of two types of payments: 1) an annual stipend of $62K, paid directly to the Fellow on a monthly schedule; and 2) an annual fellowship allowance of $27K, paid directly to the Fellow and intended to cover costs of the fellowship.

10/10/2014   Exploratory (EXP) Proposals
12/10/2014   Integrative (INT) Proposals

**Smart and Connected Health (SCH)**

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 13-543

The goal of the SCH Program is to accelerate the development and use of innovative approaches that would support the much needed transformation of healthcare from reactive and hospital-centered to preventive, proactive, evidence-based, person-centered and focused on well-being rather than disease. The purpose of this program is to develop next generation health care solutions and encourage existing and new research communities to focus on breakthrough ideas in a variety of areas of value to health, such as sensor technology, networking, information and machine learning technology, decision support systems, modeling of behavioral and cognitive processes, as well as system and process modeling. Two classes of proposals will be considered in response to this solicitation: 1) Exploratory (EXP) projects: One or more investigators may propose projects to be funded up to $170K direct cost ($250K total cost) per year for up to three years; and 2) Integrative (INT) projects: Multidisciplinary teams of investigators may propose projects with funding between $170K and $370K direct cost (up to $500K total) per year for up to four years.

10/14/2014   Full Proposal

**Research Training Groups in the Mathematical Sciences (RTG)**

National Science Foundation, Mathematical and Physical Sciences (MPS)


Contact: Andrew Pollington, 703/292-4878, adpollin@nsf.gov

Solicitation number: NSF 14-585

The long-range goal of this program is to strengthen the nation's scientific competitiveness by increasing the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences. The RTG program supports efforts to improve research training by involving undergraduate students, graduate students, postdoctoral associates, and faculty members in structured research groups centered on a common research theme. Research groups supported by RTG must include vertically-integrated activities that span the entire spectrum of educational levels from undergraduates through postdoctoral associates. The maximum award amount is $500K per year for up to five years.
Geospace Environment Modeling (GEM)
National Science Foundation, Geosciences (GEO)
Contact: Varies with research interest
Solicitation number: NSF 10-510
GEM is a broad-based, community-initiated research program on the physics of the Earth's magnetosphere and the coupling of
the magnetosphere to the atmosphere and to the solar wind. The purpose of the GEM program is to support basic research into
dynamical and structural properties of geospace, leading to the construction of a global Geospace General Circulation Model
(GGCM) with predictive capability. The typical award size is approximately $90K per year with a duration of three years.

Geospace Environment Modeling
National Science Foundation
Contact: Raymond Walker, 703/292-8519, rwalker@nsf.gov
Solicitation number: NSF 10-510
The purpose of this program is to support basic research into the dynamical and structural properties of geospace, leading to the
construction of a global Geospace General Circulation Model (GGCM) with predictive capability. The exact structure of a GGCM
may be modular or may consist of a "spine" such as a global MDH model with links to special modules. The strategy for achieving
program goals is to create a series of Focus Groups, each of which addresses a specific problem in understanding and modeling
the magnetosphere. The maximum award is $175K per year with an award duration that is subject to the availability of funds.

Discovery Research K-12 (DRK-12)
National Science Foundation, Education and Human Resources (EHR)
Contact: Varies with research interest
Solicitation number: NSF 13-601
The Discovery Research K-12 program (DRK-12) seeks to significantly enhance the learning and teaching of science, technology,
engineering and mathematics (STEM) by preK-12 students and teachers, through research and development of innovative
resources, models and tools (RMTs). The DRK-12 program has four major research and development strands: (1) Assessment; (2)
Learning; (3) Teaching; and (4) Implementation Research. Proposals may address more than one strand. The program supports
three types of projects: (1) Exploratory, (2) Full Design and Development, and (3) Conferences, Workshops, and Syntheses. All
three types of projects apply to each of the four DRK-12 strands. Normal limits for funding requests of DRK-12 proposals are as
follows: (1) Exploratory projects up to $450K with duration up to three years; (2) Full Design and Development projects up to
$3M with duration up to four years; and (3) Conference/Workshop/Synthesis projects up to $100K for duration up to two years.

Arctic Research Opportunities
National Science Foundation, Office of Polar Programs
Contact: Varies with research interest
Solicitation number: NSF 13-592
The goal of the NSF Division of Arctic Sciences is to gain a better understanding of the Arctic's physical, biological, geological,
chemical, social and cultural processes; the interactions of oceanic, terrestrial, atmospheric, biological, social, cultural, and
economic systems; and the connections that define the Arctic. The Division of Arctic Sciences and other NSF programs support
projects that contribute to the development of the next generation of researchers and scientific literacy for all ages through
education, outreach, and broadening participation in science, technology, engineering, and mathematics. Program
representatives from OPP and other non-OPP NSF programs that support arctic research coordinate across NSF, including joint
review and funding of arctic proposals and mutual support of special projects with high logistical costs. Research opportunities
are supported by the following programs: Arctic Natural Sciences Program (ANS); Arctic System Science Program (ARCSS); Arctic
Social Sciences Program (ASSP); Arctic Observing Network (AON); and Cyberinfrastructure (ACI). It is anticipated that there will
be $25M in funds to support 75 grants per year.
CyberCorps(R): Scholarship for Service (SFS)

National Science Foundation


Contact: Victor Piotrowski, 703/292-5141, vpiotrow@nsf.gov

Solicitation number: NSF 14-586

This program seeks proposals that address cybersecurity education and workforce development. The Scholarship Track provides funding to award scholarships to students in cybersecurity. In return for their scholarships, recipients will work after graduation for a Federal, State, Local, or Tribal Government organization in a position related to cybersecurity for a period equal to the length of the scholarship. The Capacity Track seeks innovative proposals leading to an increase in the ability of the United States higher education enterprise to produce cybersecurity professionals. The SFS Scholarship Track supports two to three years of stipends up to $20,000 per year for undergraduate students and $32,000 per year for graduate students. The maximum award amount for SFS Capacity Track projects vary with the size of the project.

Catalyzing New International Collaborations

National Science Foundation


Contact: R. Clive Woods, 703/292-8710, OISE-CNIC@nsf.gov

Solicitation number: NSF 13-605

This program supports the participation of U.S. researchers and students in activities intended to catalyze new international collaborations. NSF may consider proposals for collaborations with any country that is not explicitly proscribed by the Department of State. Activities can be in any field of science and engineering research and education supported by the NSF. The integration of research and education and of diversity into NSF programs, projects, and activities will be carefully considered. It is anticipated that approximately 20-40 awards will be made annually at a total investment of $2M, subject to the availability of funds. Proposals will be accepted anytime at least nine months prior to the expected date of the proposed activity.

Division of Physics: Investigator-Initiated Research Projects (PHY)

National Science Foundation


Contact: Krastan Blagoev, 703/292-4666, kblagoev@nsf.gov

Solicitation number: NSF 14-576

This program supports physics research and education in the nation’s colleges and universities across a broad range of physics disciplines that span scales of space and time from the largest to the smallest and the oldest to the youngest. The program is comprised of disciplinary programs covering experimental and theoretical research in the following major subfields of physics: Accelerator Science; Atomic, Molecular, Optical and Plasma Physics; Computational Physics; Elementary Particle Physics; Gravitational Physics; Nuclear Physics; Particle Astrophysics; Physics of Living Systems; Quantum Information Science; Education and Interdisciplinary Research. Estimated program budget, number of awards and average award size/duration are subject to the availability of funds. See solicitation for full listing of deadlines for other areas of research.
Improving Undergraduate STEM Education (IUSE: EHR)

National Science Foundation


Contact: Myles Boylan, 703/292-4617, mboylan@nsf.gov

Solicitation number: NSF 14-588

This program invites proposals that address immediate challenges and opportunities that are facing undergraduate STEM education, as well as those that anticipate new structures (e.g. organizational changes, new methods for certification or credentialing, course re-conception, cyberlearning, etc.) and new functions of the undergraduate learning and teaching enterprise. The program features two tracks: 1) Engaged Student Learning and 2) Institutional and Community Transformation. Two tiers of projects exist within each track: i) Exploration and ii) Design and Development. These tracks will entertain research studies in all areas. In addition, IUSE also offers support for a variety of focused innovative projects that seek to identify future opportunities and challenges facing the undergraduate STEM education enterprise. The maximum award is varies with each track.

CISE Computing Research Infrastructure (CRI)

National Science Foundation, Computer and Information Sciences and Engineering (CISE)


Contact: Edwina Rissland, 703/292-8930, erisslan@nsf.gov

Solicitation number: NSF 11-536

CRI drives discovery and learning in the computing disciplines by supporting the creation, enhancement, and operation of world-class computing research infrastructure. The CRI program supports two classes of awards. Institutional Infrastructure (II) awards support the creation of new computing research infrastructure or the enhancement of existing computing research infrastructure and will be made in the $200K to $750K range. Community Infrastructure (CI) awards support the planning for computing research infrastructure, the creation of new computing infrastructure, or the enhancement of existing computing research infrastructure and will be made in the $500K to $1M range.

Collaborative Research in Computational Neuroscience (CRCNS)

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 14-504

Through the CRCNS program, the NSF and its affiliates support collaborative activities that will advance the understanding of nervous system structure and function, mechanisms underlying nervous system disorders, and computational strategies used by the nervous system. Two classes of proposals will be considered in response to this solicitation: 1) Research Proposals describing collaborative research projects; and 2) Data Sharing Proposals to enable sharing of data and other resources. Proposals selected for funding must be responsive to the mission of a participating funding organization. Award sizes are expected to range from approximately $100K to $250K per year in direct costs with durations of three to five years.
Graduate Research Fellowship Program (GRFP)
National Science Foundation, Cross-Directorate
Contact: Gisele Muller-Parker, 866/673-4737, info@nsfgrfp.org
Solicitation number: NSF 14-590
This program seeks to help ensure the vitality and diversity of the scientific and engineering workforce in the United States. The program also recognizes and supports outstanding graduate students who are pursuing research-based master's and doctoral degrees in fields within NSF's mission. Each Fellowship consists of three years of support usable over a five-year period for the graduate education of individuals who have demonstrated their potential for significant achievements in science and engineering research. For each year of support, NSF provides a stipend of $32K to each Fellow and a cost-of-education allowance of $12K to the degree-granting institution.

Expeditions in Training, Research, & Education for Mathematics and Statistics (EXTREEMS-QED)
National Science Foundation, Mathematical and Physical Sciences (MPS), Office of Cyberinfrastructure
Contact: Varies with research interest
Solicitation number: NSF 12-606
The long-range goal of EXTREEMS-QED is to support efforts to educate the next generation of mathematics and statistics undergraduate students to confront new challenges in computational and data-enabled science and engineering (CDS&E). EXTREEMS-QED projects must enhance the knowledge and skills of most, if not all, the institution's mathematics and statistics majors through training that incorporates computational tools for analysis of large data sets and for modeling and simulation of complex systems. Funded activities are expected to: 1) provide opportunities for undergraduate research and hands-on experiences centered on CDS&E; 2) result in significant changes to the undergraduate mathematics and statistics curriculum; 3) have broad institutional support and department-wide commitment that encourage collaborations within and across disciplines; and 4) include professional development activities for faculty or for K-12 teachers. The maximum project period is five years.

Private/Nonprofit Agencies

Surdna Foundation Grants
Surdna Foundation
http://www.surdna.org/what-we-fund/funding-overview.html
Contact: 212/557-0010, questions@surdna.org
Solicitation number:
The Surdna Foundation fosters just and sustainable communities by making grants in the areas of: Sustainable Environments, with the goal of creating just and sustainable communities where consumption and conservation are balanced and innovative solutions to environmental problems improve people’s lives; Strong Local Economies, with the objective of providing early support for communities that seek to increase access to opportunity for all residents to build their wealth in a sustainable manner; and Thriving Cultures, with the purpose of strengthening both individual and institutional cultural assets, contributing to vibrant communities. 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

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

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

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 Foundation supports grantees within five defined program areas: Higher Education and Scholarship; Scholarly Communications and Information Technology; Museums and Art Conservation; Performing Arts; and Conservation and the Environment. 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

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.

Committee for Research and Exploration Grant

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

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

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.
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.

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.

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.

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.
Ongoing

**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.

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Ongoing

**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.

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Ongoing

**Pollock-Krasner Grants**
The Pollock-Krasner Foundation, Inc.

http://www.pkf.org/grant.html

Contact: http://www.pkf.org/contact.html

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 is determined by the individual circumstances of the artist. 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.

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Ongoing

**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.
Ongoing

**Mott Foundation Grants**
The Charles Stewart Mott Foundation


**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.

Ongoing

**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. 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.

Ongoing

**Humanities Program Grants**
The Gladys Krieble Delmas Foundation

[http://delmas.org/?page_id=6 - humanities](http://delmas.org/?page_id=6 - humanities)

**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.

Ongoing

**Whitehall Foundation Grants**
Whitehall Foundation


**Contact:** 561/655-4474, email@whitehall.org

Solicitation number:

Research Grants are available to established scientists of all ages working at accredited institutions in the US. Grants normally range from $30K to $75K per year for up to three years. Grants-in-Aid are designed for researchers at the assistant professor level who experience difficulty in competing for research funds because they have not yet become firmly established. These grants can also be made to senior scientists. These grants do not exceed $30K over a one-year period. 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.
Changes in Health Care Financing and Organization (HCFO)

Robert Wood Johnson Foundation
http://pweb1.rwjf.org/applications/solicited/cfp.jsp?ID=21392
Contact: 202/292-6700, hcf@academyhealth.org

Solicitation number:

HCFO supports research, policy analysis and evaluation projects that provide policy leaders timely information on health care policy, financing and organization issues. Supported projects include: examining significant issues and interventions related to health care financing and organization and their effects on health care costs, quality and access; and exploring or testing major new ways to finance and organize health care that have the potential to improve access to more affordable and higher quality health services. Small grants are for projects requiring $100K or less and projected to take up to 12 months or less. Large grants for projects requiring more than $100K and/or projected to take longer than 12 months. Proposals may be submitted at any time, and 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.

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.

AFRL Research Collaboration Program
Elsevier Foundation
http://www.grants.gov/custom/viewOppDetails.jsp?oppId=212295
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 war-fighting 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.
Fulbright Specialist Program

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.

Contact:
Margo Cunniffe, 202/686-6243, mcunniffe@iie.org
http://www.cies.org/specialists/

Anthropological Historical Archives Program

The objective of this Program is to encourage the preservation of unpublished personal research materials of established anthropologists considered of value for research on the history of anthropology. HAP grants of a maximum of $15K are offered to individuals, to assist senior scholars at the end of their careers (or their heirs) with the expense of preparing and transferring their unpublished research materials for archival deposit. Applicants must show evidence that arrangements have been made with an appropriate archival repository. Funds are strictly limited to covering expenses related to the basic preparation of materials for archival deposit. 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.

Contact:
212/683-5000, inquiries@wennergren.org
http://www.wennergren.org/programs/historical-archives-program-hap

Humanities Research Projects

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.
Special Grant Program in the Chemical Sciences 2014
The Camille and Henry Dreyfus Foundation
http://dreyfus.org/awards/special_grant_program_chemical.shtml
Contact: 212/753-1760, programs@dreyfus.org
Solicitation number:
This program provides funding for innovative projects in any area consistent with the Foundation's broad objective to advance the chemical sciences. The Foundation encourages proposals that are judged likely to significantly advance the chemical sciences. Examples of areas of interest include (but are not limited to): the increase in public awareness, understanding, and appreciation of the chemical sciences; innovative approaches to chemistry education at all levels (K-12, undergraduate, and graduate); and efforts to make chemistry careers more attractive. Research proposals are not customarily considered. Important aspects of proposals are: a) broad applicability and impact beyond the submitting institution; b) specific and detailed descriptions of the chemistry associated with the proposal; c) uniqueness of project. The amount of support requested is determined by the applicant.

TCF Grants
The Christensen Fund (TCF)
http://www.christensenfund.org/funding/
Contact: 415/644-1630, info@christensenfund.org
Solicitation number:
TCF focuses its grant making on maintaining the rich diversity of the world—biological and cultural—over the long run, by focusing on seven geographic regions: The San Francisco Bay Area; U.S. Southwest; Northwest Mexico; Central Asia and Turkey; The African Rift Valley; Melanesia; and a Global Program. Grants within the regional programs are generally directed to organizations based within those regions or, where appropriate, to organizations working in support of the efforts of people and institutions on the ground. Grant size typically ranges from $50K to $100K over one to two years.

Monticello College Foundation Grants
The Monticello College Foundation
http://monticellofound.org/grants.cfm
Contact: 618/468-2370
Solicitation number:
To be eligible, a project must have the potential to make a genuine, effective contribution to the advancement of education for women. Where applicable, the grant recipient should be able to assure continuance of a successful project after the termination of the grant. Professional educational associations, agencies servicing women's education, and all accredited degree-granting two and four-year colleges and universities are eligible to apply for grants. 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.

EIF Grants
Engineering Information Foundation
http://www.eifgrants.org/info/index.html
Contact: 212/579-7596, info@eifgrants.org
Solicitation number:
EIF's grant activity supports developmental projects, instructional projects, and training programs in engineering education and research that fit our fields of interest. These currently include the availability and use of published information, women in engineering, and information access in developing countries. Award amount requests should be between $5K and $25K. Projects should be innovative, promote significant and lasting change, and be able to be successfully replicated elsewhere. 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.
Career Awards at the Scientific Interface
Burroughs Wellcome Fund
Contact: 919/991-5100, info@bwfund.org

These awards provide $500K to bridge advanced postdoctoral training and the first three years of faculty service. These awards are intended to foster the early career development of researchers who have transitioned or are transitioning from undergraduate and/or graduate work in the physical, mathematical, or computational sciences or engineering into postdoctoral work in the biological sciences, and who are dedicated to pursuing a career in academic research. These awards are open to U.S. and Canadian citizens or permanent residents as well as to U.S. temporary residents. 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.

MacDowell Fellowships
The MacDowell Colony
http://www.macdowellcolony.org/apply-appguidelines.html
Contact: 603/924-3886, admissions@macdowellcolony.org

A MacDowell Fellowship provides time, space, and an inspiring environment for artists and consists of exclusive use of a studio, accommodations, and meals for up to eight weeks. The Colony accepts applications from artists working in the following disciplines: architecture, film/video arts, interdisciplinary arts, literature, music composition, theatre, and visual arts. The sole criterion for acceptance is artistic excellence. 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.

Production and Presentation Grants
Graham Foundation
http://www.grahamfoundation.org/grant_programs?mode=organization
Contact: 312/787-4071, info@grahamfoundation.org

These grants are offered to organizations to assist with the production-related expenses that are necessary to take projects such as publications, exhibitions, installations, conferences/lectures, films, new media projects, and other public programs, from conceptualization to realization and public presentation. The Foundation is most interested in opportunities which enable us to provide critical support at key points in the development of a project or career. Projects of the greatest potential will have originality, potential for impact, and feasibility. These grants do not exceed $20K over a maximum period of two 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.

Transformative Science
United States - Israel Binational Science Foundation
http://www.bsf.org.il/data/FormsToDownload/BSF-Transformative-Call.pdf
Contact: Yair Rotstein, 972/2-582-8239, yair@bsf.org.il

The BSF defines Transformative Science as: "Research driven by ideas that have potential to radically change our understanding of an important scientific concept, or lead to the creation of a new paradigm, or a new field of science. Such research is also characterized by its challenge to current understanding or by its pathways to new frontier." This requires high risk ideas that lead to scientific breakthroughs, not technological breakthroughs that are not associated with scientific ones. Transformative Science projects may be up to three years in duration, and will receive up to $100K per year.
Grants (Catalogues for Contemporary Art Exhibitions and Projects)

Elizabeth Firestone Graham Foundation

http://efgfoundation.com/guidelines.html

Contact: 505/898-5600 ext. 4, info@efgfoundation.com

Solicitation number:

Funding from the Elizabeth Firestone Graham Foundation is currently available to support direct costs for catalogues and other publications accompanying contemporary art exhibitions and projects, especially those supporting emerging and under-recognized artists, and produced by organizations outside the nation’s cultural centers. Limited funds are also available for publications related to the grantee organization and its programs or collections. The Foundation does not provide grants for individuals, general operating expenses, capital campaigns, endowment funds, or projects solely featuring the work of deceased artists. One-time special projects that are originated by the applying organization are preferred. To be considered, project dates must fall within one year of the funding cycle in which the organization is requesting funds. The Foundation is unlikely to provide grants exceeding one third of the proposed publication budget. Grant amounts typically range from $5K to $15K. 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 and Development Grants

Graham Foundation

http://www.grahamfoundation.org/grant_programs?mode=individual

Contact: Madliener House, 312/787-4071, info@grahamfoundation.org

Solicitation number:

This program assists individuals with seed money for research-related expenses such as travel, documentation, materials, supplies, and other development costs. Projects must have clearly defined goals, work plans, and budgets. Projects of the greatest potential will have originality, potential for impact, and feasibility. These grants do not exceed $10K over a maximum period of 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.

Advancing Understanding of Education Practice and Its Improvement

Spencer Foundation

http://www.spencer.org/resources/content/4/0/7/documents/SRAStatementandProcessOverview.pdf

Contact:

Solicitation number:

With this program, the Spencer Foundation aims to reinforce our commitment to intellectually ambitious research, oriented ultimately to improving the practice of education, and independent of any particular reform agendas or methodological strictures. The foundation suggests that a significant share of the successful proposals that will be funded under this initiative will fall into one of three broad categories. These three categories might be labeled studies of instructional practice, of the educational infrastructure that supports or hinders effective practice, and of the research infrastructure that supports inquiry into educational practice. 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.
Berlin Prize Fellowships
American Society for Biochemistry and Molecular Biology
http://www.americanacademy.de/home/fellows/applications
Contact: Carol Scherer, +49 (30) 804 83-106, cs@americanacademy.de
Solicitation number:
This program offers residential fellowships to emerging as well as established scholars, writers, and professionals who wish to engage in independent study in Berlin. Berlin Prizes have been awarded to historians, economists, filmmakers, art historians, journalists, legal scholars, linguists, musicologists, public policy experts, and writers, among others. The Academy does not accept project proposals in mathematics and the hard sciences. Although it is helpful to explain how a Berlin residency would contribute to further professional development, candidates need not be working on German topics. Fellowship benefits include round-trip airfare, housing at the Hans Arnhold Center, partial board, and a stipend of $5K per month. Fellows are expected to be in residence at the Academy during the entire term of the award, generally one academic semester.

Walker Foundation Grants
Yale University
http://walker-foundation.org/grant-guidelines
Contact:
Solicitation number:
The Foundation funds local, national, and international projects as pilot studies or demonstrations for solving economic imbalances that may affect the United States or challenge the global free-enterprise system. 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.

Franklin Research Grants
American Philosophical Society
http://www.amphilsoc.org/grants/franklin
Contact: Linda Musumeci, 215/440-3429, LMusumeci@amphilsoc.org
Solicitation number:
The American Philosophical Society awards small grants to scholars in order to support the cost of research leading to publication in all areas of knowledge. The program is particularly designed to help meet the costs of travel to libraries and archives for research purposes; the purchase of microfilm, photocopies, or equivalent research materials; the costs associated with fieldwork; or laboratory research expenses. Applicants are expected to have a doctorate or to have published work of doctoral character and quality. Ph.D. candidates are not eligible to apply. Funding is offered up to a maximum of $6K.

2015 McKnight Memory and Cognitive Disorders Award
The McKnight Endowment Fund for Neuroscience
http://www.neuroscience.mcknight.org/newsroom/upcoming-deadlines/2015-mcd
Contact: 612/333-4220, emaler@mcknight.org
Solicitation number:
The McKnight Foundation is interested in proposals that address memory or cognition under normal and pathological conditions. This includes proposals that address mechanisms of memory or cognition at the synaptic, cellular, or behavioral level in animals, including humans. We are particularly interested in proposals that incorporate fundamentally new approaches, as well as those that involve human experimentation. Collaborative and cross-disciplinary applications are 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.
Measuring the Quality of Civic and Political Engagement

Spencer Foundation

http://www.spencer.org/resources/content/4/1/1/documents/RFP-New-Civics.pdf

Contact: civics@spencer.org

Solicitation number:

The New Civics Initiatives has funded research that asks important questions about how education can support youth civic and political development. This request for proposals extends the New Civics Initiative to measurement. It provides funds for scholarly efforts to create reliable and valid measures of the quality of civic and political engagement among youth ages 15-25. Specifically, the Foundation is interested in the development of measures of the quality of two dimensions of civic and political engagement: 1) Engagement with Evidence and Arguments and 2) Engagement Across Difference. In the spring of 2015, the Spencer Foundation anticipates funding up to six to eight awards ranging from $100K to $400K to cover direct and limited indirect costs for projects that last up to two years.

Faculty Grants in France

Woodrow Wilson International Center for Scholars

http://www.borchardcenter.org/

Contact: 818/730-0353, janna.beling@borchardfoundation.org

Solicitation number:

Candidates from the faculties of colleges and universities in Southern California may apply for the following grants to be used in France during summer of 2012 and academic year 2012-13. Scholar-in-Residency Grants offer (a) a stipend of $30K for research in France for a semester/quarter during academic year 2012-13, plus (b) accommodations in the Chateau de la Bretesche as a home base for the research and/or writing up the research findings. Grants to Host an International Colloquium in France offer $35K to organize and direct 3-day international colloquia at the Chateau de la Bretesche in the summer months of 2012. They should be small in size, with participants equally divided between Americans and Europeans. The Foundation expects grantees to publish the proceedings. Candidates may be from any discipline.

Borchard Foundation Faculty Grants in France

Borchard Foundation Center

http://www.borchardcenter.org/international-colloquium-in-france/fellowship-application-process

Contact: Janna Beling, janna.beling@borchardfoundation.org

Solicitation number:

The Borchard Foundation Center on International Education provides funding for professors in Southern California to organize and direct international colloquia in their academic fields at the Château de la Bretesche in the summer months. Candidates may be from any discipline. The Foundation expects a scholarly publication to derive from the grant. The Borchard Foundation Center on International Education awards four grants of $35K each for academicians to organize and direct three-day international colloquia in their academic fields at the Château de la Bretesche in the summer months. The colloquia should be small in size (8-12 in number), with participants equally divided between Americans and Europeans. 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.
The Simons Foundation invites applications for the Simons Collaborations in Mathematics and the Physical Sciences (MPS) program. The aim of this program is to stimulate progress on fundamental scientific questions of major importance in the broad area of mathematics, theoretical physics, and theoretical computer science. Project should address a mathematical or theoretical topic of fundamental scientific importance, where a significant new development creates a novel area for exploration or provides a new direction for progress in an established field. The questions addressed by the Simons Collaboration may be concrete or conceptual, but there should be little doubt that answering these would constitute a major scientific milestone. The project should have clearly defined initial activities and goals by which progress and its success can be measured. The support from the foundation should be seen as critical for the objectives of the project. The project should involve outstanding researchers with a range of career stages. Excellence of the scientific leadership is one of the main criteria in the selection process. The project should be organized and managed in a manner engendering a high level of collaboration. The maximum award is $2.5M per year for four years. The foundation expects to make up to two awards in 2015. Collaboration Directors should hold a faculty or an equivalent position at a U.S. or Canadian institution with a Ph.D. program. Letter of intent are required, and full proposals are by invitation only.

11/1/2014   Application
2/1/2015    Application
5/1/2015    Application

Research Associateship Programs

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.

UC and State of California
2014 Santa Barbara Cottage Hospital-UCSB Special Research Award for Biomedical Science

Santa Barbara Cottage Hospital


Contact: Betsy Lazarine, 805/569-7436, blazarin@sbch.org

Solicitation number:

The Santa Barbara Cottage Hospital Research Committee, in cooperation with the University of California, Santa Barbara Office of Research, is pleased to issue this Request for Proposals for the 2014 Cottage Hospital - UCSB Special Research Award. This award for research with biomedical or biopsychological implications will be granted to the UCSB investigator who, in the Research Committee’s determination, most closely meets the evaluation criteria as set out for this program. Special consideration will be given to junior investigators.

The Research Committee will consider with particular interest those proposals with clear medical significance, and that actively involve medical professionals associated with Cottage Health System (although this is not a requirement for this award). The total award of $25,000 will include matching funds from the Santa Barbara Cottage Hospital Research Grant Program and UCSB Office of Research. As with all small grants from the Research Grant Program to University of California investigators, there are no indirect costs associated with these funds. Applications must be received by Wednesday, October 1, 2014. The award will be funded during the fall of 2014. For application instructions, please contact Betsy Lazarine, Ph.D., Research Administrator at Cottage Hospital at 569-7436 or blazarin@sbch.org, or Meredith Murr, Ph.D., Director, Research Development, Office of Research, UCSB at 893-3925, or murr@research.ucsb.edu.

This award is not the only funding from Santa Barbara Cottage Hospital available for UCSB researchers. UCSB researchers eligible for Principal Investigator status may apply for grants of up to $15,000 through the Cottage Hospital Research Grant Program. However, these grants require an active collaboration with a health professional affiliated with Cottage Health System. Investigators not receiving the Special Research Award may be advised by the Research Committee about the appropriateness of the area of investigation for other Santa Barbara Cottage Hospital funding. For more information on the Santa Barbara Cottage Hospital Research Grant Program, please contact Betsy Lazarine, Ph.D., Research Administrator at Cottage Hospital, at 569-7436 or blazarin@sbch.org.

10/6/2014  Full Proposal - November Grants

UC MEXUS Small Grants

UC Institute for Mexico and the United States (UC MEXUS)

http://ucmexus.ucr.edu/funding/grant_small.html

Contact: Andrea Kaus, 951/827-3586, andrea.kaus@ucr.edu

Solicitation number:

Small grants support travel, short-term research, initial planning, or other special one-time needs related to the seed phase of projects or programs conducted by UC researchers or research teams in the areas of: Mexico-Related Studies; Latino Studies; United States-Mexican Relations; Critical U.S.-Mexico Issues; Latino and Mexican Topics in the Arts; and Collaborative Research Projects with Investigators at Mexican Institutions. Awards of up to $1.5K for one year are available.