Funding Resources

The Research Development unit of the Office of Research at the University of California, Santa Barbara publishes Funding Resources.

Funding Resources is also available online:
http://www.research.ucsb.edu/research-development/find-funding

RESEARCH DEVELOPMENT CONTACT INFORMATION
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Campus and Agency News

KAVLI BRAIN COFFEE HOURS
The Kavli Foundation is sponsoring a series of “Kavli BRAIN Coffee Hours” for UCSB to continue discussions following the BRAIN symposium, and to prepare for proposals for the BRAIN Initiative:

What: Model Systems Kavli BRAIN Coffee Hour
Hosts: Ken Kosik, Luke Theogarajan, Bill Smith, and Michael Liebling
When: Friday, November 22nd, 11:30am – 1:00pm (lunch provided)
Where: 3001 Elings Hall
RSVP: http://www.research.ucsb.edu/research-development/event-rsvps/kavli-coffee-model-systems

What: Networks Kavli BRAIN Coffee Hour
Hosts: Frank Doyle, Ambuj Singh, Linda Petzold, and Jeff Moehlis
When: December 2nd, 12:00pm – 1:30pm (lunch provided)
Where: 3250 Elings Hall
RSVP: http://www.research.ucsb.edu/research-development/event-rsvps/kavli-coffee-networks

Please contact Meredith Murr, Director of Research Development (murr@research.ucsb.edu), with any questions or ideas for future workshops.

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: Research in Disabilities Education (RDE) and Research on Gender in Science and Engineering (GSE) in the new Research on Education and Learning (REAL) Solicitation (NSF 13-604)
The purpose of this Dear Colleague Letter is to alert the community to the continued opportunities to submit proposals to conduct research previously solicited by NSF’s Research in Disabilities Education (RDE) and Research on Gender in Science and Engineering (GSE) programs. The solicitation containing information on these opportunities is the Research on Education and Learning (REAL) Solicitation (NSF 13-604) with a deadline for new proposals on January 10, 2014. The REAL solicitation (NSF 13-604) encourages the submission of proposals on RDE and GSE topics with special tracks under the Broadening Participation Research Area. These tracks support both fundamental and implementation research about issues underlying the differential participation of people with disabilities and women and girls in science, technology, engineering and mathematics (STEM) education and the workforce.
Dear Colleague Letter: NSF Graduate Research Fellowship Program (GRFP) - Graduate Research Opportunities Worldwide (GROW)
The purpose of this Dear Colleague Letter is to announce the continuation of GRFP's Graduate Research Opportunities Worldwide (GROW). Through GROW, NSF Graduate Fellows are provided an international travel allowance to engage in research collaborations with investigators in partner countries located outside the United States. With GROW, NSF Graduate Fellows can benefit from partnerships developed by NSF with funding organizations in other countries. Building on the experience of the former Nordic Research Opportunity, GROW offers research opportunities of 3-12 months in duration in the following partner countries: Australia, Brazil, Chile, Denmark, Finland, France, India, Ireland, Japan, Korea, the Netherlands, Norway, Singapore, Sweden and Switzerland. This year, GROW is offering an additional track to provide opportunities to NSF Graduate Fellows to conduct research in developing countries. This track, developed through a partnership between NSF and the US Agency for International Development (USAID), includes the following developing countries: Brazil, Colombia, India, Indonesia, Philippines, Senegal and South Africa. NSF Graduate Fellows will have the opportunity to conduct research to help solve important development issues in these countries.

Dear Colleague Letter: Political Science Program
The Political Science Program at NSF will be holding its regular and dissertation competitions this spring. As usual, the deadline for both competitions is January 15th with results being announced between the middle of May and early June. When developing proposals for these two competitions, please keep in mind that the Consolidated and Further Continuing Appropriations Act of 2013 (PL. 113-6, enacted on March 26, 2013) stipulates that projects funded through the Political Science Program must either promote national security or the economic interests of the United States. The relationship of the proposed research to these goals should be addressed both in the broader impacts section of the project summary and within the project description.

The Political Science Program in the Directorate for Social, Behavioral and Economic Sciences will continue to engage panels to review grant proposals, using the two National Science Board approved merit review criteria (Intellectual Merit and Broader Impacts). Panels will be asked to provide input on the degree to which the proposed research projects promote national security or the economic interests of the United States. Informed by the advice of the review panels, NSF Program Officers will make funding recommendations. Questions about this Dear Colleague Letter may be addressed to the following SBE program contacts: Brian Humes (bhumes@nsf.gov) and Erik Herron (eherron@nsf.gov).

Dear Colleague Letter: Technology Enhancement for Commercial Partnerships (TECP): Supplemental Funding to Current SBIR/STTR Phase II Awards
Technology Enhancement for Commercial Partnerships (TECP) supplements to Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) program grantees are intended to pave the way for partnerships with strategic corporate partners and investors as a means to increase the potential for SBIR/STTR grantees to successfully commercialize their technology. Partnerships are recognized as a critical success factor for commercializing technology developed by small business. Potential partners, however, frequently demand technical specifications and require proof-of-concept data as a prerequisite for partnership that is beyond the scope of the Phase II project objectives. This supplemental funding will enable small
businesses to conduct additional research to meet the requirements of a corporate partner that could lead to commercial products and services and a successful partnership. This supplemental funding program is intended to challenge small businesses to begin to develop an outward focus and to more rigorously evaluate their strategic business and commercialization options. It is anticipated that this research will not only benefit the small business enterprise but also provide a mechanism for large and mid-sized corporations and investors to have input into the commercial development of new technology, products and services.

Dear Colleague Letter: Revised Schedule for Recompetition of the Management of the Gemini Observatory


With this Dear Colleague Letter, the NSF Secure and Trustworthy Cyberspace (SaTC) program wishes to notify the community of its intent to support and foster a multi-year community dialog about leveraging experimental and evaluation techniques from multiple disciplines to further the science of cybersecurity. Specifically, NSF expects to support at least one Research Coordination Network (RCN) under the SaTC umbrella (see NSF 13-578: http://www.nsf.gov/pubs/2013/nsf13578/nsf13578.htm). RCN (see NSF 13-520: http://www.nsf.gov/pubs/2013/nsf13520/nsf13520.htm) is a funding mechanism for advancing a field by supporting groups of investigators to communicate their activities or in this case, across disciplinary boundaries. A RCN does not support primary research; rather, a RCN supports the means by which investigators can share information, develop community standards, and advance science and education through communication and sharing of ideas.

CAMPUS HONORS AND AWARDS

- **Joseph Polchinski**, professor of physics, has received the 2014 Physics Frontiers Prize for advancing the understanding of string theory.
  - **Chris G. Van de Walle**, professor of materials, has been awarded the 2013 AVS Medard W. Welch Award, the premier honor given by AVS, the Science and Technology society.

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.

Programs with upcoming campus deadlines include:

- NSF Major Research Instrumentation Program FY2014 (MRI)—Campus Notice of Intent 11/04/2013; Campus Pre-proposal 11/18/2013; Agency deadline 01/23/2014

Programs with open campus spots (please contact funding@research.ucsb.edu if you are
interested in submitting to one of these programs):

- NSF Mid-Scale Innovations Program in Astronomical Sciences (MSIP)—Preliminary proposal (required) 9/16/2013; Application 2/21/2014 (by invitation only)
Data provided by Office of Research. "()” represent investigators’ home departments when those are different from the administering unit.


Begley, M. (Mechanical Engineering), Materials, $403,767, Office Of Naval Research (ONR), “Multi-Physics Simulations of EBC Durability.”


Bouwmeester, D. (Physics), Institute for Terahertz Science & Technology, $270,000, National Science Foundation, “Implementing a Quantum CNOT Gate Using Solid State Cavity QED.”

Bowers, M.T. (Chemistry & Biochemistry), Institute for Terahertz Science & Technology, $1,768,028, National Institutes for Health, “Amyloid ß-Protein: Wild Type and Familial Mutant Assembly and Inhibition.”


Brizinski, M.A., Marine Science Institute, $36,219, Dauphin Island Sea Lab, “Collaborative Research: Understanding the role of pico-

cyanobacteria in the marine silicate cycle.”

Byl, K., Electrical & Computer Engineering, $150,000, Jet Propulsion Laboratory, “UCSB DARPA Robotics Challenge - Track A.”

Cheng, K., Electrical & Computer Engineering, $300,000, Semiconductor Research Corporation, “Test Data Analytics - Exploring Hidden Correlations in Production Test Data.”

Clarke, K.C., Geography, $300,000, National Science Foundation, “Collaborative Research: I/UCRC Center for Spatiotemporal Thinking and Computing.”

Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Research Institute, $26,992, Santa Barbara County, “Re-Entry Drug Court.”


Dewar, T.J. (Graduate School of Education), Gevirtz Research Institute, $24,000, UC California Writing Project, “South Coast Writing Project (CSMP 13-14).”

Dozier, J.C. (Geography), Earth Research Institute, $651,243, National Aeronautics and Space Administration, “Assessing Water Resources in Remote, Sparsely Gauged, Snow-Dominated Mountain Basins.”

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

Fredrickson, G.H. (Chemical Engineering), Delaney, K., Materials Research Laboratory, $390,000, National Science Foundation, "DMREF: Collaborative: Computationally Driven Discovery and Engineering of Multiblock Polymer Nanostructures Using Genetic Algorithms."

Fredrickson, G.H. (Chemical Engineering), Materials Research Laboratory, $65,000, Intel Corporation, "Field-Based Simulations of Directed Self-Assembly."

Gaines, S. (Ecology, Evolution & Marine Biology), Lester, S.E., Marine Science Institute, $75,000, Rare, "Fish Forever: Launching Pilot Sites in Belize, Philippines, and Indonesia."

Gutekunst, W., Hawker, C.J. (Materials), Materials Research Laboratory, $148,518, National Institutes of Health, "Development of Sequence Controlled Polymers for Antibacterial Therapeutics and Coatings."

Hawker, C.J. (Materials), College of Engineering (MCAM), $0, Mitsubishi Group (Japan), "NRT-22: Advanced Thermal Management Materials."


Jackson, M., Earth Research Institute, $184,293, National Science Foundation, "Collaborative Research: Using the Rurutu Hotspot to Evaluate Mantle Motion and Absolute Plate Motion Models."

Janowicz, K., Geography, $9,000, National Science Foundation, "Student Travel Fellowships: 2013 Web Reasoning and Rule Systems Conference."

Janowicz, K., Geography, $20,000, National Science Foundation, "III: Travel Fellowships for Students from U.S. Universities to Attend ISWC 2013."

Jayich, A. (Physics), California Nanosystems Institute, $1,000,000, Air Force, "Nanoscale Probe of Magnetism Based on Artificial Atoms in Diamond."

Kelly, B.C., Treu, T., Physics, $22,100, National Aeronautics and Space Administration, "Weighing the Most Massive Black Holes with X-ray Variability."

Kia-Keating, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Research Institute, $89,991, National Institutes of Health, "Preventing Violence and Racial Disparities for Latino Youth."

Kuczenski, B., Geyer, R. (Donald Bren School of Environmental Science & Management), Institute for Social, Behavioral, & Economic Research, $269,162, Department of Resources Recycling and Recovery (CalRecycle), "An Online Tool for Public Review of Used Oil LCA Results."

Laughrin, L.L. (Natural Reserve System), Swarbrick, S. (Natural Reserve System), Marine Science Institute, $6,037, USDI National Park Service, "Research Bibliography for Channel Islands National Park."


Ludwig, A.W., physics, $270,000, National Science Foundation-NSF, "Field Theoretical Methods in Strongly Interacting, Topological, and Disordered Condensed Matter Systems."


Mazin, B., Physics, $744,991, National Science Foundation, "Darkness: Dark-Speckle Near-IR Energy-resolved Superconducting Spectrophotometer."


Morrison, D., Mathematics, $353,999, National Science Foundation, "Foundations of F-theory."


Myers, M., Dugan, J.E., Marine Science Institute, $178,721, Department of Commerce, "Santa Barbara Area Coastal Ecosystem Vulnerability Assessment."


Plaxco, K.W., Chemistry & Biochemistry, $342,759, National Institutes of Health, "A New Approach to Quantitative, Point-of-Care


Treu, T., Physics, $308,213, National Science Foundation, “Collaborative Research: Accurate Cosmology with Strong Gravitational Lens Time Delays.”

Valentine, D.L. (Earth Science), Marine Science Institute, $341,714, National Science Foundation, “Collaborative Research: Oxygenation of Hydrocarbons in the Ocean.”

Valentine, D.L. (Earth Science), Marine Science Institute, $335,419, California Institute Of Technology-Cal Tech, “Cracking the Microbial Sulfur Cycle with Novel Cell- and Metabolite-Specific Stable Isotope Approaches.”

Van dam, W.K. (Computer Science), California Nanosystems Institute, $250,000, National Science Foundation, “Complexity of Simulating Quantum Adiabatic Optimization by Quantum Monte Carlo Methods.”

Van de Walle, C.G., materials, $420,000, DOE Miscellaneous Offices And Programs, “Computational Studies of Hydrogen Interactions with Storage Materials.”


Waite, J.H. (Molecular, Cellular & Developmental Biology), Israelachvili, J.N. (Chemical Engineering), Marine Science Institute, $1,942,671, National Institutes of Health, “Translating Mussel Adhesion.”


Zok, F.W., Levi, C.G., Materials, $600,000, Office of Naval Research (ONR), “Matrix Concepts and Processing Protocols for Robust SiC-Based CMCs.”
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 Commerce (DOC)
12/20/2013  Pre-proposal

Ocean Exploration 2014 Funding Opportunity
Department of Commerce, National Oceanic and Atmospheric Administration (NOAA)
Contact:  301/734-1014, oer.ffo2014@noaa.gov
Solicitation number:  NOAA-OAR-OER-2014-2003874
This FOA seeks pre-proposals and, ultimately, full proposals to support its mission to search, investigate, and document poorly-known and unknown ocean areas through interdisciplinary exploration, and to advance and disseminate knowledge of the ocean environment and its physical, chemical, archaeological, and biological resources. Data and observations resulting from funded ocean exploration proposals are expected to result in new discoveries, new insights, new knowledge and new ocean science frontiers in the ocean’s poorly known and unknown regions that may revise, or even overturn, current ocean paradigms. Grant amounts are expected to range from $10K to $2.5M, dependent upon the chosen area of research and the quality of proposals, over a one or two year project period.

Department of Defense (DOD)
Ongoing

Naval Research Laboratory Broad Agency Announcement
Naval Research Laboratory
Contact:  Sue Kelly, 202/767-6815, nrlproposals@nrl.navy.mil
Solicitation number:  BAA-N00173-03
NRL conducts basic and applied research for the Navy in a variety of scientific and technical disciplines. NRL contributes to this requirement by conducting research in the following areas, organized into NRL'S Naval Center for Space Technology and three research directorates: Systems, Materials Science and Component Technology, and Ocean and Atmospheric Science and Technology. Interested offerors must first submit a white paper (WP). White Papers are continuously accepted. Proposals are only accepted upon request.
AFRL Research Collaboration Program

Air Force Research Laboratory

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 warfighting technologies for the nation's air, space and cyberspace forces through specific AFRL Core Technical Competencies (CTCs). This objective will be met by awarding contracts/assistance instruments that provide a broad range of highly unique evolutionary and revolutionary technology advances in nine competency areas: Structural Materials and Applications, Functional Materials and Applications, Support for Operations, Manufacturing Technology, Radio Frequency (RF) Sensing, Electro-Optical Sensing, Spectrum Warfare, Layered Sensing Exploitation and Enabling Sensor Devices/Components. Individual awards are anticipated to be in the range of $100K to $750K per contract. Each award is not anticipated to exceed 48 months.

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

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.

Research Interests of the Air Force Office of Scientific Research

Air Force Office of Scientific Research (AFOSR)

http://www07.grants.gov/web/grants/search-grants.html

Contact: Varies with research interest

Solicitation number: BAA-AFOSR-2013-0001

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

United States Army Research Institute for the Behavioral and Social Sciences Broad Agency Announcement for Bas

U.S. Army Research Office

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

Contact: Varies with research interest

Solicitation number: W911NF-13-R-0001

The U.S. Army Research Institute for the Behavioral and Social Sciences is the Army’s lead agency for the conduct of research, development, and analyses for the improvement of Army readiness and performance via research advances and applications of the behavioral and social sciences that address personnel, organization, training, and leader development issues. This FOA is divided into two sections: 1) Basic Research and 2) Applied Research and Advanced Technology Development. Basic Research is defined as systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific application of processes or products in mind. The Applied Research and Advanced Technology Development Section is divided into four subsections: 1) Training; 2) Leader Development; 3) Team and Inter-Organizational Performance in Complex Environments; and 4) Soldier/Personnel Issues.
FY13 Neurosensory Research Award
Department of Defense (DoD)
Contact: 301/682-5507, help@cdmrp.org
Solicitation number: W81XWH-13-DMRDP-CRMRP-NSRA
The goal of the DMRDP is to advance the state of medical science in those areas of most pressing need and relevance to today’s battlefield experience. The objectives of the DMRDP are to discover and explore innovative approaches to protect, support, and advance the health and welfare of military personnel, families, communities, and the general public; to accelerate the transition of medical technologies into deployed products; and to accelerate the translation of advances in knowledge into new standards of care for injury prevention, treatment of casualties, rehabilitation, and training systems that can be applied in theater or in the clinical facilities of the Military Health System. For applied research applications, the maximum period of performance is three years and the maximum allowable total (direct and indirect) costs for the entire period are $1.5M. For clinical trial applications, the maximum period of performance is four years and the maximum allowable total (direct and indirect) costs for the entire period of performance are $3M.

FY13 Vision Research Program Hypothesis Development Award
Department of Defense (DoD)
Contact: 301/682-5507, help@cdmrp.org
Solicitation number: W81XWH-13-CRMRP-VRP-HAD
The CRMRP mission is to focus on definitive and rehabilitative care innovations required to reset our wounded warriors, both in terms of duty performance and quality of life. The VRP is administered by the CRMRP as part of this mission. The FY13 VRP challenges the scientific community to design innovative research that will foster new directions for and address neglected issues in the field of vision research. The maximum period of performance is two years and the maximum allowable total (direct and indirect) costs for the entire period of performance are $250K.

FY14 Neuromusculoskeletal Injuries Research Award
Department of Defense (DoD)
Contact: 301/682-5507, help@cdmrp.org
Solicitation number: W81XWH-14-DMRDP-CRMRP-NMSIRA
The goal of the DMRDP is to advance the state of medical science in those areas of most pressing need and relevance to today’s battlefield experience. The objectives of the DMRDP are to discover and explore innovative approaches to protect, support, and advance the health and welfare of military personnel, families, communities, and the general public; to accelerate the transition of medical technologies into deployed products; and to accelerate the translation of advances in knowledge into new standards of care for injury prevention, treatment of casualties, rehabilitation, and training systems that can be applied in theater or in the clinical facilities of the Military Health System. For Preclinical Research applications, the maximum period of performance is three years and the maximum allowable total (direct and indirect) costs for the entire period are $1.5M. For Clinical Trial applications, The maximum period of performance is four years and the maximum allowable total (direct and indirect) costs for the entire period are $2M.
ONR Summer Faculty Research Program and Sabbatical Leave Program
Office of Naval Research (ONR)
https://onroutreach-summer-faculty-research-sabbatical.com/index.html
Contact: 256/536-9717, onrsfrp@tmtgroupinc.com
Solicitation number:

The ONR sponsors the Summer Faculty Research Program and the Sabbatical Leave Program for U.S. citizens and legal permanent residents who hold teaching or research appointments at U.S. colleges and universities. These programs provide an opportunity for faculty members to participate in research of mutual interest to the faculty member and professional peers at U.S. Navy Laboratories. Some of the expected benefits of the Summer Faculty Research Program include: 1) Broaden the scope and horizon of faculty member’s research interests and provide a foundation for future research collaborations; 2) Access to equipment and other resources not available at their home institution; 3) Provide an understanding of the Department of the Navy research interests and the technological implications thereof, thus enhancing the abilities of Fellows to pursue and obtain funding for research at their home institution; and 4) Foster lasting relationships between Fellows and the researchers at the Navy laboratories. Stipends are tentatively set for $1.4K per week at the Summer Faculty Fellow level, $1.65K per week at the Senior Summer Faculty Fellow level, and $1.9K per week at the Distinguished Summer Faculty Fellow level. The Sabbatical Leave Program provides fellowship appointments for a minimum of one semester to a maximum of one year in length. The purpose of sabbatical leave is to provide an opportunity for faculty members to engage in scholarly, creative, professional, research, or other academic activities that will enhance the faculty member’s further contributions to their institution. Participants in the Sabbatical Leave Program receive a monthly stipend making up the difference between salary and sabbatical leave pay from their home institution. Relocation and travel assistance are provided to qualifying participants. Applications for the Sabbatical Leave Program should be submitted six months prior to the start of the proposed sabbatical.

Basic Research in Spatial Sensing Scene Characterization Technology
Department of Defense (DoD)
http://www.onr.navy.mil/~/media/Files/Funding-Announcements/BAA/2013/13-021.ashx
Contact: Ravindra Athale, 703/588-1916, Ravindra.Athale@navy.mil
Solicitation number: BAA 13-021

The Office of Naval Research (ONR) seeks fundamental technical innovations to revolutionize spatial, temporal, and compositional scene characterization at stand-off distances ranging from hundreds of meters to tens of kilometers in different frequency regions of the electromagnetic (EM) spectrum (visible, near, mid and long wavelength infrared as well as millimeter wave). A traditional imaging system augmented with processing and exploitation by computers has been the dominant framework to answer the questions “who, what, where and when.” Recent progress in semiconductor arrays for detecting EM radiation has spurred unprecedented advances in imaging sensors in visible and IR bands. In this research announcement, we encourage breaking this familiar paradigm and rethinking the challenge of spatial, temporal, and compositional scene characterization from a new perspective. The estimated amount of funding is expected to be between $300K to $500K per year for a three-year period.
FY2014 Multidisciplinary University Research Initiative (MURI)
Department of Defense (DoD)
http://www.grants.gov/view-opportunity.html?oppId=240153

Contact: Varies by agency
Solicitation number: ONRBA13-022

The DoD Multidisciplinary University Research Initiative (MURI) supports basic research in science and engineering that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interact to provide rapid advances in scientific areas of interest. MURI awards are $1M to $2.5M per year.

White papers and full proposals addressing the following topics (1) through (8) should be submitted to the Army Research Office (ARO):
(1) Attosecond Electron Dynamics
(2) Force-Activated Synthetic Biology
(3) Nonlinear Dynamics of Energy Hypersurfaces Governing Reaction Networks
(4) Strongly Linked Multiscale Models for Predicting Novel Functional Materials
(5) Multistep Catalysis
(6) Innovation in Prokaryotic Evolution
(7) Ultracold Molecular Ion Reactions
(8) The Skin-Microbe Interactome

White papers and full proposals addressing the following topics (9) through (17) should be submitted to the Air Force Office of Scientific Research (AFOSR):
(9) Time-resolved quantum dynamics of complex systems
(10) Computational Foundation of Mathematics and Information
(11) Transport and Utilization of Energy Using Plasmon-induced Processes
(12) Design Rules for Biobased and Bioinspired Materials
(13) Control of Coherent Structures in Plasmas for Reconfigurable Metamaterial-Based Devices
(14) Multifunctional Quantum Transduction of Photons, Electrons and Phonons
(15) Control of Light Propagation through Metasurfaces
(16) Goal-Driven, Multi-Source Algorithms for Complex Resilient Multi-Physics Systems
(17) Security Theory of Nano-Scale Devices

White papers and full proposals addressing the following topics (18) through (24) should be submitted to The Office of Naval Research:
(18) Understanding Energy Harvesting Mechanisms in Polymer-Based Photovoltaics
(19) Role of Bidirectional Computation in Visual Scene Analysis
(20) Exploring the Atomic and Electronic Structure of Materials to Predict Functional Material Properties
(21) Optical Computing
(22) Quantum optomechanics
(23) Air-Sea Interaction and RF Propagation in Maritime Atmospheric Boundary Layers
(24) Hydrodynamics of Non-traditional Propulsion

Militarily Relevant Peer Reviewed Alzheimer's Disease - Quality of Life Research Award
Department of Defense (DoD)
http://www.grants.gov/web/grants/view-opportunity.html?oppId=240317

Contact: programannouncements@tatrc.org
Solicitation number: W81XWH-13-MRPRA-QUAL

The mission of this program is to: 1) build an integrated program devoted to understanding the association between Traumatic Brain Injuries (TBIs) and Alzheimer’s disease (AD); and 2) to reduce the burden on those affected by TBI-AD symptoms, especially in the military community. The primary objective is to facilitate research to characterize the nature of the association between TBI and the subsequent development of AD. A second, but equally important, objective is the development of technologies, or outcomes intended to directly benefit individuals affected by cognitive and behavioral symptoms that result in functional impairments associated with either TBI or AD. The maximum amount of funding, regardless of whether or not the maximum three year period is proposed, is $1.45M.
2013 Science, Technology, Engineering BAA
U.S. Army Engineer Research and Development Center (ERDC)
http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=213854
Contact: Allison Hudson, 601/634-5233, Allison.B.Hudson@usace.army.mil
Solicitation number: W912HZ-13-BAA-1000
ERDC solicits basic research proposals in the general DoD STEM Education and Outreach Program from colleges, universities, and non-profit organizations. Area of performance for proposals may be limited to one selected location or may address multiple locations. Funding is limited and proposals are primarily sought in the not-to-exceed $30,000 range; however, larger awards may be considered when appropriate.

2014 Office of Naval Research Young Investigator Program (YIP)
Department of Defense (DoD)
http://www.onr.navy.mil/~media/Files/Funding-Announcements/BAA/2013/13-023.ashx
Contact: Bill Lukens, william.lukens1@navy.mil
Solicitation number: ONRBA13-023
This FOA seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment and for FY2014, have begun their first appointment on or after November 1, 2008 and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of Institutions of Higher Education to the Department of the Navy's research program, to support their research, and to encourage their teaching and research careers. Proposals may request up to $170K per year for three years.

Innovative Systems for Military Missions
Defense Advanced Research Projects Agency (DARPA)
http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=229874
Contact: 703/248-1512, DARPA-BAA-13-22@darpa.mil
Solicitation number: DARPA-BAA-13-22
The Tactical Technology Office (TTO) of DARPA is soliciting executive summaries, white papers and proposals for advanced research, development and demonstration of innovative systems for military missions. Innovative systems are integrated systems or critical systems components that often incorporate emerging advanced technologies, and enable revolutionary improvements to the capability, efficiency and effectiveness of the military. Novel concepts are sought in the following focus areas: 1) Ground Systems, 2) Maritime Systems, 3) Air Systems, and 4) Space Systems. In general, awards are anticipated to be for less than $1M and less than 18 months duration, although options that follow the base effort may also be proposed.

Department of Energy (DOE)

Theoretical Research in Magnetic Fusion Energy Science
Department of Energy, Office of Science
http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=224853
Contact: John Mandrekas, 301/903-0552, john.mandrekas@science.doe.gov
Solicitation number: DE-FOA-0000879
DOE announces its interest in receiving grant applications for theoretical research relevant to the program in magnetic fusion energy sciences. The specific areas of interest are: 1) Magnetohydrodynamics; 2) Confinement and Transport; 3) Boundary Physics; 4) Plasma Heating, Non-inductive Current Drive, and Energetic Particles; and 5) Atomic and Molecular Processes in Plasmas. Collaborative research projects involving more than one institution are welcome.

Environmental Protection Agency (EPA)
Indoor Air and Climate Change

Environmental Protection Agency


Contact: Vito Ilacqua, 703/347-0261, ilacqua.vito@epa.gov

Solicitation number: EPA-G2014-STAR-A1

The EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to improve understanding of the effects of climate change on indoor air quality and the resulting health effects. EPA is interested in supporting research that will explore the anticipated effects of climate change on indoor air quality directly through a variety of mechanisms, and indirectly through adaptations in building use and design. This solicitation provides the opportunity for the submission of applications for projects that may involve human subjects research. In addition to regular awards, this solicitation includes the opportunity for early career projects. The purpose of the early career award is to fund research projects smaller in scope and budget by early career PIs. Funding is anticipated up to a total of $1M for regular awards and $500K for early career awards, including direct and indirect costs, with a maximum duration of three years.

Institute of Museum and Library Services (IMLS)

12/2/2013  Application

Sparks! Ignition Grants for Libraries 2014

Institute of Museum and Library Services


Contact: Helen Wechsler, 202/653-4779, hwechsler@imls.gov

Solicitation number:

This FOA supports projects that address problems, challenges, or needs of broad relevance to museums. These small grants encourage museums to prototype and evaluate specific innovations in the ways they operate and the services they provide resulting in new tools, products, services, or organizational practices. To maximize the public benefit from federal investments in these grants, the Sparks! Ignition Grants for Museums program will fund only projects with the following characteristics: 1) Broad Impact; 2) In-depth Knowledge; and 3) Shared Results. Grant awards range from $10K to $25K over a maximum one-year period.

12/2/2013  Application

Museum Grants for African American History and Culture

Institute of Museum and Library Services


Contact: Mark Isaksen, 202/653-4667, misaksen@imls.gov

Solicitation number: AAHC-FY14

Museum Grants for African American History and Culture are intended to enhance institutional capacity and sustainability through professional training, technical assistance, internships, outside expertise, and other tools. Successful proposals will focus on one or more of the following three goals: (1) developing or strengthening knowledge, skills, and other expertise of current staff at African American museums; (2) attracting and retaining professionals with the skills needed to strengthen African American museums; and (3) attracting new staff to African American museum practice and providing them with the expertise needed to sustain them in the museum field. Grants will be awarded in amounts ranging from $5K to $150K over a maximum two-year project period. Cost sharing is required in a 1:1 ratio.

National Aeronautics and Space Administration (NASA)
**C.23 Planetary Major Equipment**

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=301993/solicitationId=%7B48D582D6-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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**Land Cover and Land Use Change**

National Aeronautics and Space Administration


Contact: Garik Gutman, 202-358-0276, ggutman@nasa.gov

Solicitation number: NNH13ZDA001N-LCLUC

This FOA combines aspects of physical, social, and economic sciences, with a high level of societal relevance, while using remote sensing tools, methods, and data. This solicitation consists of two elements: 1) LCLUC in mountainous regions; and 2) Synthesis of LCLUC studies. Projections of LCLUC in mountainous regions may involve land-use models, regional climate and ecological models, as well as social and econometric modeling. A social science component is expected in the proposals for this element. For a Synthesis proposal to be competitive, it must include a social or economic sciences component, such as the use of socioeconomic data or a socioeconomic model, as an integral part of the study, preferably based on available data or data being collected by an ongoing study funded by another agency. The anticipated funding awarded during the first year of the three-year period is $250K.

1/24/2014 Notice of Intent (encouraged)
3/21/2014 Proposal

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**Astrophysics Research and Analysis**

National Aeronautics and Space Administration


Contact: Michael Garcia, 202/358-1053, Michael.R.Garcia@nasa.gov

Solicitation number: NNH13ZDA001N-APRA

This program solicits basic research proposals for investigations that are relevant to NASA’s programs in astronomy and astrophysics and includes research over the entire range of photons, gravitational waves, and particles of cosmic origin. Awards may be for up to four years’ duration (up to five years for suborbital investigations), but shorter-term proposals are typical. Proposals are solicited in the following five broad categories: Detector Development; Suborbital Investigations; Supporting Technology; Laboratory Astrophysics; and Ground-Based Observations.

1/24/2014 Notice of Intent (encouraged)
3/21/2014 Proposal

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**Strategic Astrophysics Technology**

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&sollId={7D7C006A-BD2D-72AF-E549-DCDEF33EBCA0

Contact: Varies with research interest

Solicitation number: NNH13ZDA001N-SAT

Over the next decade and beyond, NASA’s Astrophysics Division expects to undertake space flight missions that will explore the nature of the universe at its largest scales, its earliest moments, and its most extreme conditions; missions that will study how galaxies and stars formed and evolved to shape the universe we see today; and missions that will search out and characterize the planets and planetary systems orbiting other stars. As compelling as these future missions will be, implementing them presents many daunting technological challenges. To overcome these challenges and pave the way to ever more ambitious missions, NASA’s Astrophysics Division has established the Strategic Astrophysics Technology (SAT) program to support the maturation of key technologies to the point at which they are feasible for implementation in space flight missions. Maximum duration of awards and maximum funding varies by program element.
ROSES 2013 - Astrophysics Research and Analysis
National Aeronautics and Space Administration

http://nspires.nasa.gov/external/solicitations/summary.do?method=init&solId={C8BE0811-9A71-E8A7-FCF1-01950624FCE2}

Contact: Varies with research interest
Solicitation number: NNH13ZDA001N

The APRA program seeks to support research that addresses the best possible (i) state-of-the-art detector technology development for instruments that may be proposed as candidate experiments for future space flight opportunities; (ii) science and/or technology investigations that can be carried out with instruments flown on suborbital sounding rockets, stratospheric balloons, or other platforms; and (iii) supporting technology, laboratory research, and/or (with restrictions) ground-based observations that are directly applicable to space astrophysics missions. To meet these goals, proposals are solicited in the following five broad categories: 1) Suborbital/Suborbital-class Investigations; 2) Detector Development; 3) Supporting Technology; 4) Laboratory Astrophysics; and 5) Ground-Based Observations. Awards range from under $100K per year for focused, limited efforts (e.g., data analysis) to more than $1M per year for extensive activities (e.g., development of science experiment hardware). The maximum project period is typically four years.

ROSES 2013 - Strategic Astrophysics Technology
National Aeronautics and Space Administration

http://nspires.nasa.gov/external/solicitations/summary.do?method=init&solId={7D7C006A-BD2D-72AF-E549-DCDEF33EBCA0}

Contact: Varies with research interest
Solicitation number: NNH13ZDA001N-SAT

This program sponsors research to explore the universe beyond, from the search for planets and life in other solar systems to the origin, evolution, structure, and destiny of the universe itself. The Strategic Astrophysics Technology program supports focused development efforts for key technologies to the point at which they are ready to feed into major missions in the three science themes of the Astrophysics Division: Exoplanet Exploration, Cosmic Origins, and the Physics of the Cosmos. This program is specifically designed to address middle technology readiness level “gaps” between the maturation of technologies that have been established as feasible, but which are not yet sufficiently mature to incorporate into flight missions without introducing an unacceptable level of risk. To meet the goals, proposals are solicited in the following three science areas: 1) Technology Development for Exoplanet Missions; 2) Technology Development for Physics of the Cosmos Program; and 3) Technology Development for the Cosmic Origins Program. Awards range from under $100K per year for focused, limited efforts (e.g., data analysis) to more than $1M per year for extensive activities (e.g., development of science experiment hardware). The maximum project period is typically four years.

National Endowment for the Arts (NEA)

12/9/2013 Application

Literature Fellowships - Translation Projects FY15
National Endowment for the Arts

http://www.arts.gov/grants/apply/LitTranslation/index.html

Contact: 202/682-5034, LitFellowships@arts.gov
Solicitation number: CFDA-45.024

Through fellowships to published translators, the Arts Endowment supports projects for the translation of specific works of prose, poetry, or drama from other languages into English. We encourage translations of writers and of work that are not well represented in English translation. All proposed projects must be for creative translations of literary material into English. The work to be translated should be of interest for its literary excellence and value. Priority will be given to projects that involve work that has not previously been translated into English. This FOA does not fund: 1) Individuals who previously have received three or more Literature Fellowships (in prose or poetry) or Translation Fellowships from the National Endowment for the Arts; 2) Individuals who have received any Literature Fellowship (in prose or poetry) or Translation Fellowship from the National Endowment for the Arts within the past five years; 3) Applicants applying with the same project for more than three consecutive years; 4) Scholarly writing; and 5) Work toward academic degrees.
Sustaining Cultural Heritage Collections Grant

This FOA encourages collaborative and interdisciplinary planning that can help institutions: 1) understand the nature of collections and their conditions before defining preservation requirements; 2) develop preservation strategies based on the risks to collections rather than on ideal and prescriptive targets; 3) know the characteristics and performance of the building, its envelope, and its systems, and their role in moderating interior environmental conditions; 4) understand the nature of the local climate and its impact on interior environmental conditions; 5) consider the potential effects of climate change on cultural property; 6) design mechanical systems, whenever possible, only after investigating and implementing passive (that is, nonmechanical) approaches for achieving and managing desired conditions; 7) National Endowment for the Humanities sustaining Cultural Heritage Collections; 8) develop solutions tailored to the capabilities of the organization and its staff; 9) weigh initial and ongoing energy use, costs, and environmental impacts of potential preservation strategies; and 10) evaluate and measure the effectiveness of a project’s results through the collection of data on conditions, energy use, and costs. The maximum award for planning grants is ordinarily $40K for up to two years. Planning applications may, however, request up to an additional $10,000 to carry out one or more recommendations made by the interdisciplinary planning team during the course of the project. Grants can be made for up to five years for implementation projects, with a maximum award of $350K. Cost sharing, though not required, is often necessary to cover the full costs of accepted projects.

Programming Grants to Accompany NEH on the Road Exhibitions

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.

Collaborative Research Grants 2014

Collaborative Research Grants support interpretive humanities research undertaken by a team of two or more scholars, for full-time or part-time activities for periods of one to three years. Support is available for various combinations of scholars, consultants, and research assistants; project-related travel; field work; applications of information technology; and technical support and services. Eligible projects include: 1) research that significantly adds to knowledge and understanding of the humanities; 2) conferences on topics of major importance in the humanities that will benefit scholarly research; 3) archaeological projects that include the interpretation and communication of results; and 4) research that uses the knowledge and perspectives of the humanities and historical or philosophical methods to enhance understanding of science, technology, medicine, and the social sciences. Awards are made for one to three years and normally range from $25K to $100K per year. Cost sharing is not required but encouraged and often necessary to cover project costs.
Scholarly Editions and Translations 2014
National Endowment for the Humanities
Contact: editions@neh.gov
Solicitation number: CFDA 45.161
Scholarly Editions and Translations grants support the preparation of editions and translations of pre-existing texts and
documents of value to the humanities that are currently inaccessible or available in inadequate editions. These grants support
full-time or part-time activities for periods of one to three years. Applicants should demonstrate familiarity with the best
practices recommended by the Association for Documentary Editing or the Modern Language Association Committee on
Scholarly Editions. Awards usually range from $50K to $100K per year. In most cases, NEH Scholarly Editions and Translations
grants cover no more than 80 percent of project costs and 4:1 cost sharing is required.

National Digital Newspaper Program
National Endowment for the Humanities
Contact: 202/606-8570, ndnptech@loc.gov
Solicitation number: CFDA 45.149
NEH is soliciting proposals from institutions to participate in the National Digital Newspaper Program (NDNP). NDNP is creating
a national digital resource of historically significant newspapers published between 1836 and 1922, from all the states and U.S.
territories. This searchable database will be permanently maintained at the Library of Congress (LC) and be freely accessible via
the Internet. An accompanying national newspaper directory of bibliographic and holdings information on the website directs
users to newspaper titles available in all types of formats. During the course of its partnership with NEH, LC will also digitize and
contribute to the NDNP database a significant number of newspaper pages drawn from its own collections. One organization
within each U.S. state or territory will receive an award to collaborate with relevant state partners in this effort. Over a period of
two years, successful applicants will select newspapers—published in their state or territory between 1836 and 1922—and
convert approximately 100,000 pages into digital files (primarily from microfilm), according to the technical guidelines (PDF)
outlined by the Library of Congress. Applicants may select titles published in English, French, German, Italian, or Spanish. (More
languages will be added in future years.) NEH expects to award cooperative agreements of up to $325K each for a two-year
period. Although cost sharing is not required, NEH is rarely able to support the full costs of projects approved for funding. In
most cases, NEH awards cover no more than 80 percent of project costs.

National Institutes of Health (NIH)
Ongoing
Technologies for Healthy Independent Living (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-11-020
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-11-020, which solicits applications under the R21
Exploratory/Developmental Grant.
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.

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-13-008

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.

Multidisciplinary Studies of HIV AIDS and Aging (R01)

National Institutes of Health, Cross-Institute

http://grants.nih.gov/grants/guide/pa-files/PAR-12-175.html

Contact: Varies with research interest

Solicitation number: PAR-12-175

This FOA invites applications proposing to study HIV infection, HIV-associated conditions, HIV treatment, and/or biobehavioral or social factors associated with HIV/AIDS in the context of aging and/or in older adults. Research approaches of interest include clinical translational, observational, and intervention studies in domestic and international settings. The maximum project period is five years. This FOA runs in parallel with two FOAs of identical scientific scope, PAR-12-174, which utilizes the R21 Exploratory/Developmental Grant mechanism, and PAR-12-176, which utilizes the R03 Small Grant mechanism.
Cancer Detection, Diagnosis, and Treatment Technologies for Global Health (UH2 & UH3)

National Institutes of Health, National Cancer Institute (NCI)


Contact: Avraham Rasooly, 240/276-6196, rasoolya@mail.nih.gov

Solicitation number: RFA-CA-13-015

This FOA is a new initiative to support the development of cancer-relevant technologies suitable for use in low- and middle-income countries (LMICs). Specifically, the FOA solicits applications for projects to adapt, apply, and validate existing or emerging technologies into a new generation of user-friendly, low-cost devices or assays that are clinically comparable to currently used technologies for imaging, in vitro detection/diagnosis, or treatment of cancers in humans living in LMICs. Projects proposed in response to this FOA will require multidisciplinary efforts to succeed and therefore all applicant teams must include expertise in engineering/ assay/treatment development, oncology, global healthcare delivery, and business development. The initial two-year (or shorter) UH2 exploratory phase will be a feasibility study to demonstrate technical functionality and clinical potential for use in LMIC settings by meeting specific performance milestones. UH2 projects that have met their milestones will be administratively considered by NCI and prioritized for transition to the UH3 validation phase. UH3 awards will support improvements and validations of the technologies in the LMIC settings. The project period for the UH3 phase is up to three years. Applicants may request up to $500K total costs for the UH2 phase per year and up to $1M total costs for the UH3 phase per year.

Detection of Pathogen-Induced Cancer (DPIC) (R01)

National Institutes of Health, National Cancer Institute (NCI)


Contact: Jacob Kagan, 301/435-1594, kaganj@mail.nih.gov

Solicitation number: PAR-13-190

The purpose of this FOA is to encourage research projects which focus on the interactions of carcinogenic pathogens with the human microbiome and the host for the detection of pathogen-induced cancer (DPIC). This FOA encourages research to assess molecular signatures associated with risk and early detection of pathogen-induced cancer and chronic inflammation associated with progression to invasive cancer. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project period is five years. There are four additional FOAs issued under the DPIC Initiative that cover additional types of projects at different stages: 1) PAR-13-172, R01 Revisions; 2) PAR-13-173, U01 Research Project – Cooperative Agreements Revisions; 3) PAR-13-171, P01 Program Project Grant Revisions; and 4) PAR-13-170, P50 Specialized Centers Revisions.

Imaging and Biomarkers for Early Cancer Detection (R01)

National Institutes of Health, National Cancer Institute (NCI)


Contact: Varies with research interest

Solicitation number: PAR-13-189

This FOA invites research project (R01) applications that combine imaging and biomarkers. The overall objective of this FOA is to facilitate collaborative imaging and biomarker research to improve cancer screening, early cancer detection and diagnosis by integrating multi modality imaging strategies and multiplexed biomarker methodologies. Application budgets are not limited, but need to reflect the actual needs of the proposed project. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PAR-13-177, R01 Research Project Grant Revisions; 2) PAR-13-176, U01 Research Project - Cooperative Agreements Revisions; 3) PAR-13-175, P01 Program Project Grant Revisions; and 4) PAR-13-174, P50 Specialized Centers Revisions.
NIH Support for Conferences and Scientific Meetings

The purpose of this FOA is to support high quality conferences that are relevant to the public health and to the scientific mission of the participating Institutes and Centers listed in the full announcement. A conference grant application is required to contain a permission-to-submit letter from any one of the participating Institutes and Centers (ICs) conference grant contact persons available in the FOA. Applicants are urged to initiate contact well in advance of the chosen application receipt date. Most ICs will accept applications for up to five years of support when a series of annual or biannual conferences are proposed by a permanently sponsoring organization.

Contact: 301/435-0714, GrantsInfo@nih.gov
Solicitation number: PA-13-347

NHLBI Systems Biology Collaborations (R01)

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.

Contact: Pankaj Qasba, 301/435-0050, qasbap@nhlbi.nih.gov
Solicitation number: PAR-12-138

National Institute of Diabetes and Digestive and Kidney Diseases Program Projects (P01)

This FOA issued by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) invites submission of investigator-initiated program project applications. The proposed programs should address scientific areas relevant to the NIDDK mission including diabetes, endocrine and metabolic diseases, digestive diseases and nutrition, and kidney, urologic and hematologic diseases, as well as new approaches to prevent, treat and cure these diseases, including clinical research. Application budgets will not exceed more than $6.25M in direct costs over a maximum project period of five years.

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

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.
Interpreting Variation in Human Non-Coding Genomic Regions Using Computational Approaches and Experimental

This FOA solicits applications to develop highly innovative computational approaches for interpreting sequence variants in the non-protein-coding regions of the human genome. The goal is to develop methods that analyze whole-genome sequence data by integrating data sets, such as ones on genome function, phenotypes, patterns of variation, and other features, to identify or substantially narrow the set of variants that are candidates for affecting organismal function leading to disease risk or other traits. The accuracy of the computational approaches developed should be assessed using experimental data. Applications may request up to $500K direct costs per year for a maximum of three years.

Roybal Centers for Translational Research on Aging (P30)

This FOA solicits Edward R. Roybal Centers for Translation Research in the Behavioral and Social Sciences of Aging, utilizing the P30 grant mechanism. Center resources are intended for the development and piloting of new and innovative ideas for early stage as well as late stage translation of basic behavioral and social research findings about established or hypothesized mechanisms of action, at the individual or population level, into programs and practices that will improve the lives of older people and the capacity of institutions to adapt to societal aging. This FOA specifically focuses on early stage as well as late stage translation of basic behavioral and social science research findings only in the following five priority areas: 1) Mechanisms of Behavior Change; 2) Novel interventions exploiting the malleability or plasticity of biobehavioral risk mechanisms associated with adverse aging outcomes; 3) Novel methods for survey research and data collection; 4) Novel methods for analyzing programs affecting older populations; and 5) Novel programs or practices at homes, workplaces, or firms benefiting older people in the following priority areas. Application budgets are limited to $300K in first-year direct costs and an additional $50K in direct costs in the first year may be requested. The maximum project period is five years.

Educational Programs for Demography & Population Science, Family Planning & Contraception, & Reproductive Re

This FOA encourages Research Education Project (R25) grant applications for educational activities related to Demography and Population Science, Family Planning and Contraception, and Reproductive Research. NICHD encourages applications for educational programs for interdisciplinary approaches, methodology, and the dissemination and use of existing datasets. Although total direct costs are not capped, budget requests of more than $175K per year must be fully justified. The maximum project period is five years.
NICHD Research Short Courses (R25)

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


Contact: Dennis Twombly, 301/451-3371, dtwombly@mail.nih.gov

Solicitation number: PA-12-207

NICHD invites applications for grants to develop and conduct short-term research education programs to improve the knowledge and skills of a broad-based community of biomedical and behavioral researchers conducting research on reproductive, developmental, behavioral, social, and rehabilitative processes that determine the health and well-being of newborns, infants, children, adults, families, and populations. The program should include both didactic and hands-on experiences. If appropriate, the program may include activities to disseminate course materials and instructional experience to the scientific community. Programs focusing on uses of model organisms are encouraged. Direct costs for an application are limited to a maximum of $125K per year for up to five years. Course duration can vary from 1-12 weeks.

National Institute on Aging Program Project Applications (P01)

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


Contact: Robin Barr, BarrR@mail.nih.gov

Solicitation number: PAR-13-258

Applications should address scientific areas relevant to the NIA mission. Each P01 application submitted to this FOA must include at least three related research projects that share a common central theme, focus, and/overall objective and an administrative core to lead the project. Project budgets are not limited and over the maximum five-year project period.

Developmental Origins of Health and Disease (DOHaD)

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


Contact: Stuart Moss, 301/435-6979, mosstua@mail.nih.gov

Solicitation number: PAR-13-385

The purpose of this FOA is to encourage applications from the scientific community to support the development of comprehensive reference epigenomes for male and female gametes, and pre-implantation embryos after exposure to a particular environmental factor/insult. What is envisioned is the establishment of a compendium/atlas annotating epigenetic changes during various stages of spermatogenesis, oogenesis, and pre-implantation embryo development, the identification of the affected genes, and the characterization of any resulting phenotype in the offspring. Application budgets are limited to $250K (direct costs) per year over a maximum project period of two years.
Secondary Analyses of Social and Behavioral Datasets in Aging (R03)

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


Contact: Partha Bhattacharyya, 301/496-3131, bhattacharyyap@mail.nih.gov

Solicitation number: RFA-AG-14-008

This FOA is seeking small grant (R03) applications to conduct secondary analysis of social and behavioral data in aging. Specifically, NIA seeks applicants to: stimulate and facilitate secondary analysis of data related to dynamics of health and disability, cognition, psychosocial and sociodemographic factors, genetics, and biomarkers, long term care, caregiving, behavioral medicine, retirement, economic status; provide support for preliminary projects using secondary analysis that could lead to subsequent applications for other research grants; provide support for analyses of new databases and experimental modules for purposes such as informing the design and content of future study waves; and provide support for pilot research on under-utilized databases. Budgets may be requested for a maximum of $100K direct costs over a two-year time period.

Early-Stage Pharmacological Validation of Novel Targets and Accompanying Pre-Therapeutic Leads for Diseases of

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


Contact: Aaron Pawlyk, 301/451-7299, pawlykac@mail.nih.gov

Solicitation number: PAR-13-007

The overarching goal of this FOA is to promote translation of basic science research into knowledge and tools that can be utilized to provide strong justification for later-phase drug discovery and development efforts in areas relevant to the National Institute of Diabetes and Digestive and Kidney Diseases. This includes obesity, diabetes and related aspects of endocrinology and metabolism, digestive diseases, liver diseases, nutrition, kidney and urological diseases, hematology, and specific aspects of cystic fibrosis. Its objective is to stimulate research and technology development to promote the early-stage pharmacological validation of drug targets and accompanying small molecule chemical scaffolds or non-viral biologics that are not currently a focus within the biotechnology and pharmaceutical industries. It is expected that there is significant novelty in either the target, chemical scaffold, or non-viral biologic itself, or in the approaches used to pursue further target validation. It is not intended to support research focused on understanding normal biology, disease processes, or generating lists of putative new targets. At the end of the project period, a successful project will have provided a significant contribution to the data supporting the validity of modulating a target's activity for safe, efficacious treatment of a disease using a small molecule or non-viral biologic approach. Applications are limited to $500K in direct costs and the budget must reflect the scope of the proposed project. The maximum project period is five years.

New Computational Methods for Understanding the Functional Role of DNA Variants that are Associated with Me

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


Contact: Anjené Addington, 301/443-6653, anjene.addington@nih.gov

Solicitation number: PAR-13-391

The purpose of this FOA is to support the development of advanced computational, bioinformatic and statistical tools to determine the functional relevance of genetic variants associated with mental disorders of complex etiologies identified through genome-wide association or sequencing studies. The overarching goal of this initiative is to support the development of innovative computational methods that facilitate the elucidation of the functionality of genetic variants associated with mental illness, taking into account the added complexities and nuances of brain diseases, and to ultimately inform the identification and validation of potential targets for novel treatment development. This FOA should be used when two or more sites are needed to complete the study. For a linked set of collaborative R01s, each site must have its own Program Director/Principal Investigator and the set of linked applications provide a mechanism for cross-site coordination, quality control, database management, statistical analysis, and reporting. The total project period may not exceed three years. This FOA runs in parallel with a FOA of identical scientific scope, PAR-13-392, that utilizes the R01 Research Project Grant mechanism.
Gut Microbiota-Derived Factors in the Integrated Physiology and Pathophysiology of Diseases within NIDDKs Mission

The purpose of this FOA is to encourage investigator-initiated multidisciplinary R01 research projects to define interactions between the host and the gut microbiota that regulate normal physiology and pathophysiology of diseases within NIDDK's mission. The goal of the research projects is to discover specific human gut microbiota-derived factors that affect or are affected by host physiology (including diet/nutrition), homeostasis, and disease pathophysiology. Specific research areas that are of interest to the NIDDK include, but are not limited to, identifying gut microbiota (including probiotic)-derived factors and defining mechanisms by which they: 1) Regulate dynamics of microbiota community structure in response to diet or disease phenotypes of interest to NIDDK; 2) Convey immunomodulatory properties in the gut and regulate differentiation or activation of immune cell subsets; and 3) Contribute to the intestinal stem cell niche and intestinal epithelial development, repair, or renewal. Application budgets are not limited and the maximum project period is five years.

Development of Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R01)

This FOA encourages grant applications to address different and complementary research needs for the development and acceptability of pediatric drug formulations in different age groups. Development and testing of novel pediatric drug delivery systems is also part of this initiative. Investigators are encouraged to explore approaches and concepts new to the area of pediatric formulation development and testing and use newly developed techniques superior to the ones currently used in the field. Application budgets are not limited and the maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PAR-13-326 and PAR-13-344, that utilize the R21 Exploratory/Developmental Grant and R03 Small Grant Program mechanisms, respectively.

HIV Infection of the Central Nervous System (R01)

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.
Short-Term Research Education Program to Increase Diversity in Health-Related Research (R25)

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


Contact: Drew Carlson, 301/435-0535, carlsonde@nhlbi.nih.gov

Solicitation number: RFA-HL-13-020

This FOA invites applications to promote diversity in undergraduate and health professional student populations by providing short-term research education support to stimulate career development in cardiovascular, pulmonary, hematologic, and sleep disorders research. The overall goal of the program is to provide research opportunities for individuals from backgrounds underrepresented in biomedical science, including individuals from disadvantaged backgrounds, individuals from underrepresented racial and ethnic groups, and individuals with disabilities that will significantly contribute to a diverse research workforce in the future. The total institutional annual direct cost should not exceed $319K for a maximum of five years.

Senior Scientist Research Award (K05)

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


Contact: Varies with research interest

Solicitation number: PA-12-148

The purpose of this FOA is to provide protected time for outstanding senior scientists who have demonstrated a sustained high level of productivity conducting biomedical research relevant to the scientific mission of the appropriate institute to focus on their research and to provide mentoring of new investigators. The maximum project period is five years.

Mentored Career Development Award to Promote Faculty Diversity & Re-Entry in Biomedical Research (K01)

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


Contact: Mark Roltsch, 301/435-0535, roltschm@nhlbi.nih.gov

Solicitation number: RFA-HL-13-019

This FOA invites applications to increase the number of highly trained investigators, from diverse backgrounds underrepresented in research areas of interest to the NHLBI or who wish to re-enter their research careers (e.g., after a hiatus due to family circumstances). It is targeted toward individuals whose basic and clinical research interests are grounded in the advanced methods and experimental approaches needed to solve problems related to cardiovascular, pulmonary, and hematologic diseases in the general and health disparities populations. This FOA invites applications from Institutions with eligible faculty members to undertake special study and supervised research under a mentor who is an accomplished investigator in the research area proposed and has experience in developing independent investigators. Candidates who are faculty members at an institution must have research experience and be committed to developing into independent biomedical investigators in research areas relevant to the mission of the NHLBI (i.e., cardiovascular, pulmonary, hematologic, or sleep disorders research). NIH will contribute $30K per year toward the research development costs of the award recipient.
Analysis of Genome-Wide Gene-Environment (G x E) Interactions (R21)

National Institutes of Health, Cross-Institute, National Cancer Institute (NCI), National Institute on Drug Abuse (NIDA)


Contact: Varies with research interest

Solicitation number: PAR-13-382

The purpose of this FOA is to provide support for research projects that involve secondary data analyses of existing genome-wide data from genome-wide association studies or other large genomic datasets for the purpose of identifying gene-environment interactions. The ultimate objective of this funding opportunity is the discovery of complex interplays of genes and environmental factors in human populations which may disclose novel genetic susceptibilities to environmental exposures or a greater understanding of the role of environmental exposures in the development, progression, and severity of complex human diseases. Applications requesting three years of support are limited to direct costs of $300K over the three-year period. The combined budget for direct costs for a two-year project period may not exceed $275K while no more than $200K may be requested in any single year.

Tobacco Control Regulatory Research (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-12-267

The purpose of this FOA is to encourage biomedical, behavioral, and social science research that will inform the development and evaluation of regulations on tobacco product manufacturing, distribution, and marketing. Research projects must address the research priorities related to the regulatory authority of the Food and Drug Administration (FDA) Center for Tobacco Products (CTP) as mandated by the Family Smoking Prevention and Tobacco Control Act (FSPTCA), Public Law 111-31. The awards under this FOA will be administered by NIH using designated funds from the FDA CTP for tobacco regulatory science. Research results from this FOA are expected to generate findings and data that are directly relevant to inform the FDA's regulation of the manufacture, distribution, and marketing of tobacco products to protect 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: PAR-12-266, which utilizes the R21 Exploratory/Developmental Grant mechanism, and PAR-12-268, which utilizes the R03 Small Grant Program mechanism.

NLM Grants for Scholarly Works in Biomedicine and Health (G13)

National Institutes of Health, National Library of Medicine (NLM)


Contact: Alan VanBiervliet, 301/594-4882, alan.vanbiervliet@nih.gov

Solicitation number: PAR-13-014

NLM Grants for Scholarly Works in Biomedicine and Health are awarded for the preparation of book-length manuscripts and other scholarly works of value to U.S. health professionals, public health officials, biomedical researchers and historians of the health sciences. Grants are awarded for major critical reviews, state-of-the-art summaries, historical studies, and other useful organizations of knowledge in clinical medicine, public health, biomedical research, and the informatics/information sciences relating to them. The scholarly work may be prepared for publication in print or electronic media, or both. An award is up to $50K per year in direct costs, for projects lasting one, two, or three years.
NICHD Program Project Grant (P01)
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)


Contact: Varies with research interest
Solicitation number: PAR-10-245

This FOA encourages innovative, multidisciplinary, interactive, and synergistic program project grant applications that propose to conduct research on reproductive, developmental, behavioral, social, and rehabilitative processes that determine the health or functioning of newborns, infants, children, adults, families, and populations. For new applications, the first-year cap is $750K direct costs, with a cumulative cap of $4M direct costs over a five-year period.

Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (Parent T32)
National Institutes of Health, Cross-Institute


Contact: Varies with research interest
Solicitation number: PA-11-184

The NIH will award Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32) to eligible institutions as the primary means of supporting predoctoral and postdoctoral research training to help ensure that a diverse and highly trained workforce is available to assume leadership roles related to the Nation’s biomedical, behavioral and clinical research agenda. The objective of the T32 program is to prepare qualified individuals for careers that have a significant impact on the health-related research needs of the Nation. Because of the differences in individual Institute and Center (IC) program requirements for this FOA, prospective applicants MUST consult the Table of IC-Specific Information, Requirements and Staff Contacts (http://grants.nih.gov/grants/guide/contacts/parent_T32.html), to make sure that their application is appropriate for one of the participating NIH ICs. Prior consultation with NIH staff is strongly encouraged.

Ruth L. Kirschstein National Research Service Award Short-Term Institutional Research Training Grants (Parent T35)
National Institutes of Health, Cross-Institute


Contact: Varies with research interest
Solicitation number: PA-11-185

The NIH will award Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grants (T35) to eligible institutions to develop or enhance research training opportunities for predoctoral and postdoctoral level individuals interested in careers in biomedical, behavioral and clinical research. Many of the NIH Institutes and Centers (ICs) use this grant mechanism exclusively to support intensive, short-term research training experiences for students in health professional schools during the summer. In addition, the Short-Term Institutional Research Training Grant may be used to support other types of predoctoral and postdoctoral training in focused, often emerging scientific areas relevant to the mission of the funding IC. The proposed training must be basic, behavioral or clinical research aspects of the health-related sciences. Because of the differences in IC program requirements for this FOA, prospective applicants MUST consult the Table of IC-Specific Information, Requirements and Staff Contacts (http://grants.nih.gov/grants/guide/contacts/parent_T35.html), to make sure that their application is appropriate for one of the participating NIH ICs. Prior consultation with NIH staff is strongly encouraged.

Network Infrastructure Support for Emerging Areas of Research in the Basic Biology of Aging (R24)
National Institutes of Health, National Institute on Aging (NIA)


Contact: Felipe Sierra, 301/496-6402, Sierraf@nia.nih.gov
Solicitation number: PAR-11-266

The purpose of this FOA is to provide infrastructure support to foster further development and integration in emerging interdisciplinary areas of research in basic biology of aging. This FOA will use the NIH Resource-Related Research Project (R24) mechanism to facilitate research networks that will advance specific scientific goals through meetings, conferences, small scale pilots, short term training opportunities (such as intensive workshops, summer institutes, or visiting scholar programs) and dissemination activities to encourage growth and development in these interdisciplinary areas.
NINDS Research Education Opportunities (R25)

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


Contact: Stephen Korn, 301/496-4188, korns@ninds.nih.gov

Solicitation number: PAR-13-240

The purpose of this FOA is to request applications for the initiation or continuation of nationally-available neuroscience research education programs that will significantly advance the mission of NINDS. The NIH Research Education (R25) grant mechanism is designed to support the development and implementation of creative and innovative neuroscience research education programs for biomedical, behavioral, and clinical researchers. Proposed research education programs submitted to this FOA are expected to be designed for, and available to, a national audience. Programs intended for a local or regional audience are not appropriate for this FOA. R25 programs may complement ongoing research training and education occurring in the U.S., but the proposed educational experiences must be distinct from those research training and research education programs currently receiving federal support. Application budgets are limited to a maximum of $250K direct cost per year for a maximum of five years.

NEI Translational Research Program (TRP) on therapy for Visual Disorders (R24)

National Institutes of Health, National Eye Institute (NEI)


Contact: Neeraj Agarwal, 301/451-2020, agarwalnee@nei.nih.gov

Solicitation number: PAR-13-370

This program focuses on the development of novel therapies to treat visual diseases and disorders. In the context of this program, an expert develops a multi-disciplinary research team that applies an integrative approach to develop rapid and efficient translation of innovative laboratory research findings into clinical therapeutic development. It involves collaborative teams of scientists and clinicians with expertise in multiple disciplines, operating according to a clear leadership plan. Such a collaborative approach is particularly appropriate for research focused on pathways that will likely be targeted by biological intervention, such as gene therapy, cell-based therapy, and pharmacological approaches. The intention of this program is to make resources available to scientists from several disciplines to address scientific and technical questions that would be beyond the capabilities of any one research group. Each project should have a well-defined end-point, achievable within a five-year time frame, of developing a specific treatment for a specific ocular disease. The suggested topics of research include, but are not limited to: 1) Gene transfer; 2) Selectively targeted cell-based therapies; 3) Stem cell therapy; 4) Rational drug design; and 5) Small Molecules. Applicants may request up to $1.75 million per year direct costs for a total project period of five years.

Biodemography of Aging (R01)

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


Contact: John Haaga, 301/496-3131, HaagaJ@mail.nih.gov

Solicitation number: PAR-12-078

This FOA encourages applications for research combining demographic and life-science approaches for expanding the current understanding of aging/senescence, frailty and mortality. Applications should include evolutionary and life history theories as a framework for investigating individual and population-level factors that underlie changes in lifespan and healthy life expectancy, including sex and population differentials in late-life frailty and mortality. The maximum project period is five years. This FOA runs in parallel with two FOAs of identical scientific scope: PAR-12-079, which utilizes the R21 Exploratory/Developmental Grant mechanism and PAR-12-080, which utilizes the R03 Small Research Grant mechanism.
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.

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.

Health Promotion Among Racial and Ethnic Minority Males (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-328

This FOA encourages research on the health of minority men. Specifically, this initiative is intended to: enhance our understanding of the factors influencing the health promoting behaviors of racial and ethnic minority males and their subpopulations across the life cycle, and encourage applications focusing on the development and testing of culturally and linguistically appropriate health-promoting interventions designed to reduce health disparities among racially and ethnically diverse males and their subpopulations age 21 and older. This FOA will utilize the R01 grant mechanism and runs in parallel with a FOA of identical scientific scope, PA-13-331, that encourages applications under the R21 mechanism.
Biomarkers of Infection-Associated Cancers (R01)
National Institutes of Health, National Cancer Institute (NCI), National Institute of Dental and Craniofacial Research (NIDCR)
Contact: Varies with research interest
Solicitation number: PA-11-158
This FOA encourages the submission of Research Project Grant (R01) applications that propose to identify biomarkers for cancers where the etiology of the disease is attributed to infectious agents. Proposed studies should apply high-throughput molecular profiling technologies so that disease-specific markers and/or profiles can be recognized and used to identify infected individuals in whom infected cells are progressing into cancer to distinguish high-risk populations. The maximum project period is five years.

Research on Ethical Issues in Biomedical, Social and Behavioral Research (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-11-180
The purpose of this FOA is to support investigator-initiated Research Project Grant (R01) applications that propose to study high priority bioethical challenges and issues associated with the types of biomedical, social, and behavioral research supported by the participating NIH Institutes/Centers. Only participating ICs will provide direct grant support under this FOA. The maximum project period is five years. This FOA runs in parallel with PA-11-181, which solicits applications under the R03 Small Grant mechanism, and PA-11-182, which solicits applications under the R21 Exploratory/Developmental Grant mechanism.

Circadian Rhythms and Alcohol-induced Tissue Injury (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: Q. Max Guo, 301/443-0639, Max.Guo@nih.gov
Solicitation number: PA-11-178
This FOA encourages applications that propose to conduct mechanistic studies of the circadian rhythms involved in alcohol-induced organ damage. The objective of this FOA is to understand the molecular mechanisms of alcohol-induced tissue damage that involve central and peripheral circadian rhythms, particularly their connection with metabolism and metabolic disorders. The project period ranges from one to five years. This FOA runs in parallel with PA-11-179, which solicits applications under the R21 mechanism.

Enhancing Tumoricidal Activity of Natural Killer (NK) Cells by Dietary Components for Cancer Prevention (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-11-160
This FOA is designed to stimulate research efforts aimed at establishing the physiological significance of dietary components in modulating the tumoricidal cell activity of natural killer (NK) cells for cancer prevention. The maximum project period is five years. This FOA runs in parallel with PA-11-161, which solicits applications under the R21 Exploratory/Developmental Grant mechanism.
The Effect of Racial and Ethnic Discrimination & Bias on Health Care Delivery (R01)

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


Contact: Varies with research interest

Solicitation number: PA-11-162

This FOA encourages the submission of research project grant applications that propose to: 1) improve the measurement of racial/ethnic discrimination in health care delivery systems through improved instrumentation, data collection, and statistical/analytical techniques; 2) to enhance understanding of the influence of racial/ethnic discrimination in health care delivery and its association with disparities in disease incidence, treatment, and outcomes among disadvantaged racial/ethnic minority groups: and 3) to reduce the prevalence of racial/ethnic health disparities through the development of interventions to reduce the influence of racial/ethnic discrimination on health care delivery systems in the U.S. This FOA runs in parallel with PA-11-163, which solicits applications under the R21 mechanism, and PA-11-164, which solicits applications under the R03 mechanism.

NLM Express Research Grants in Biomedical Informatics (R01)

National Institutes of Health, National Library of Medicine (NLM)


Contact: Varies with research interest

Solicitation number: PAR-13-300

The National Library of Medicine supports research grants that advance the science of biomedical informatics. Biomedical informatics can be defined as the intersection of computer and information sciences with an application domain such as health care, public health, basic biomedical research, or clinical translational research. This grant has a limit of $250K per year in direct costs. The maximum project period is four years.

Nutrition and Diet in the Causation, Prevention, and Management of Heart Failure (R01)

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


Contact: Varies with research interest

Solicitation number: PA-11-165

This FOA encourages submission of research applications on the role of nutrition and diet in the causation, prevention, and treatment of cardiomyopathies and heart failure. Mechanistic, translational, and applied interdisciplinary research applications with rigorous hypothesis-testing designs for projects in humans or animals are of interest. The overall goal is to develop a satisfactory science base for rational nutritional management of patients in various stages of heart failure and for preventive approaches in high-risk individuals. The maximum project period is five years. This FOA runs in parallel with PA-11-166, which solicits applications under the R21 Research Project Grant mechanism.
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 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 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.

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. This FOA runs in parallel with FOAs of identical scientific scope, PA-11-239, that encourages applications under the R21 mechanism, and PA-11-240, that encourages applications under the R03 mechanism.
Effects of Secondhand Smoke on Cardiovascular and Pulmonary Disease Mechanisms (R01)

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

http://grants.nih.gov/grants/guide/pa-files/PA-11-244.html

Contact: Varies with research interest

Solicitation number: PA-11-244

This FOA invites applications that propose to better characterize the dose-response relationship between secondhand smoke (SHS) exposure and the cardiovascular and pulmonary diseases by improving our understanding of the mechanisms by which SHS contributes to these diseases. A wide range of research including animal and human laboratory studies, cohort and case control studies, and natural experiments resulting from home, workplace, and/or community changes in SHS exposure are consistent with this initiative.

Mechanistic Studies of Pain and Alcohol Dependence (R01)

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


Contact: Mark Egli, 301/594-6382, megli@mail.nih.gov

Solicitation number: PA-11-267

This FOA encourages applications that propose to conduct mechanistic studies on the relationship between alcohol drinking, alcohol dependence, and pain. The objective of this FOA is to understand genetic, pharmacological and learning mechanisms underlying the association between the propensity to drink alcohol and pain responses. This FOA runs in parallel with a FOA of identical scientific scope, PA-11-268, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Gene-Environment Interplay in Substance Use Disorders (R01)

National Institutes of Health, Cross-Institute


Contact: Naimah Weinberg, 301/402-1908, nw46w@nih.gov

Solicitation number: PA-11-235

NIDA and NIAAA seek to stimulate and expand research on the interplay of genetic and environmental factors in the genesis, course, and outcomes of substance and alcohol use disorders (SUDs). New studies using genetically informative approaches are needed to elucidate the complex interplay of genetic and environmental factors in developmental trajectories of SUDs and comorbid conditions, deepen and refine phenotypic definitions of SUDs, and meet the methodologic challenges of the field. The maximum period is five years. This FOA runs in parallel with two FOAs of identical scientific scope, PA-11-236, which utilizes the R21 Exploratory/Developmental Grant mechanism, and PA-11-237, which utilizes the R03 Small Grant Program mechanism.

International Research Collaboration on Alcohol and Alcoholism (U01)

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


Contact: Peggy Murray, 301/443-2594, pmurray@mail.nih.gov

Solicitation number: PAR-11-282

This FOA invites applications for the purpose of fostering international collaborations between alcohol research investigators within the United States and investigators located at non-United States laboratories and performance sites for the mutual advancement of our understanding of alcohol problems and of clinical and public health approaches to their solutions. The program is intended to provide funds for research activities to be undertaken jointly between the U.S. and non-U.S. laboratory that expands the research direction of both the U.S. and non-U.S. laboratories in a collaborative manner. Applications may request up to $250K direct cost per year for 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 (NIAAA)


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.

Secondary Analysis of Existing Alcohol Epidemiology Data (R01)

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


Contact: Wenxing Zha, 301/443-0633, zhaw@mail.nih.gov
Solicitation number: PA-11-308

This FOA encourages R01 Research Grant applications that propose to conduct secondary analysis of existing data sets. NIAAA seeks to enhance the understanding of the patterns of alcohol consumption and the epidemiology of alcohol-related problems. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-11-309, which utilizes the R03 Small Grant Program mechanism.

Drug Abuse Prevention Intervention Research (R01)

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


Contact: Kevin Conway, 301/443-6504, kconway@nida.nih.gov
Solicitation number: PA-11-311

The purpose of this FOA is to encourage Research Project Grant (R01) applications that propose to advance the science of drug abuse and drug-related HIV prevention through 1) the development of novel prevention approaches, 2) the testing of novel and adapted prevention intervention approaches, 3) the elucidation of processes associated with the selection, adoption, adaptation, implementation, sustainability, and financing of empirically validated interventions, and 4) the development of new methodologies suitable for the design and analysis of prevention research studies. The maximum project period is five years. This FOA runs in parallel with two FOAs of identical scientific scope: PA-11-312, which utilizes the R21 Exploratory/Developmental Grant mechanism, and PA-11-313, which utilizes the R03 Small Grant Program mechanism.

Systems Science and Health in the Behavioral and Social Sciences (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest
Solicitation number: PAR-11-314

This FOA encourages Research Project Grant (R01) applications that propose to develop basic and applied projects utilizing systems science methodologies relevant to human behavioral and social sciences and health. This FOA is intended to encourage a broader scope of topics to be addressed with systems science methodologies, beyond those encouraged by existing open FOAs. Research projects applicable to this FOA are those that are either applied or basic in nature (including methodological development), have a human behavioral and/or social science focus, and feature systems science methodologies. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PAR-11-315, which utilizes the R21 Exploratory/Developmental Grant mechanism.
**Single Cell Studies in Aging Research (R01)**
National Institutes of Health, National Institute on Aging (NIA)
Contact: Jose Velazquez, 301/496-6428, jvelazqu@mail.nih.gov
Solicitation number: PA-11-320
This FOA encourages grant applications that propose to develop research on single cell biology to enhance the understanding of the mechanisms of normal aging and of age-related diseases. Applications using -omics technologies, imaging, optofluidic platforms, mass spectroscopy, whole genome sequencing, and other tools and technologies at the single cell level are encouraged since it is expected that the single cell approach will improve the determination of unique and biologically significant properties of tissues and organs during the aging process. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-11-321, which utilizes the R21 Exploratory/Developmental Grant mechanism.

**Behavioral and Social Genomics of Aging - Opportunities in the Health and Retirement Study (R01)**
National Institutes of Health, National Institute on Aging (NIA)
Contact: Erica Spotts, 301/496-3136, spottse@mail.nih.gov
Solicitation number: PA-11-318
This FOA encourages applications taking advantage of the newly available genetic data to advance our understanding of how genetic, behavioral, and psychosocial factors affect the health and well-being of older Americans. Applications should use the genotype data from the Health and Retirement Study for new and innovative research purposes. Phenotype data is accessible through an application to the HRS, while genotype data can be accessed through an application to dbGaP. The maximum project period is five years.

**Social Neuroscience and Neuroeconomics of Aging (R01)**
National Institutes of Health, National Institute on Aging (NIA)
Contact: Lis Nielsen, 301/402-4156, nielsenli@nia.nih.gov
Solicitation number: PAR-11-337
The National Institute on Aging (NIA) issues this FOA with special review to stimulate interdisciplinary aging-relevant research in the social, affective, and economic neurosciences. The NIA invites applications examining social, emotional, and economic behaviors of relevance to aging, using approaches that examine mechanisms and processes at both (a) the social, behavioral or psychological (emotional, cognitive, motivational) level, and (b) the neurobiological or genetic level. Proposals are encouraged that have an overarching emphasis on economic, social or emotional processes and associated genetic or neurobiological processes. Applications should demonstrate either relevance for aging or for age differences or age-related changes in these processes. Aging-relevant applications can address issues of importance to the well-being and health of either mid-life or older adults, and can include data spanning the entire life course. Application budgets are limited to $500K direct cost per year for up to five years. This FOA runs in parallel with a FOA of identical scientific scope, PAR-11-366, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Modeling Social Behavior (R01)
National Institutes of Health, National Institute of General Medical Sciences (NIGMS), National Institute of Mental Health (NIMH)
Contact: Varies with research interest
Solicitation number: PAR-13-374
This FOA solicits applications for developing and testing innovative theories and computational, mathematical, or engineering approaches to deepen our understanding of complex social behavior. This research will examine phenomena at multiple scales to address the emergence of collective behaviors that arise from individual elements or parts of a system working together. This FOA will support research that explores the often complex and dynamical relationships among the parts of a system and between the system and its environment in order to understand the system as a whole. Applications that build transdisciplinary teams of scientists spanning a broad range of expertise are encouraged. The maximum project period is five years.

Nutrition and Alcohol-Related Health Outcomes (R01)
National Institutes of Health, National Cancer Institute (NCI)
Contact: Varies with research interest
Solicitation number: PA-13-359
This FOA issued by the National Institute on Alcohol Abuse and Alcoholism (NIAAA) and the National Cancer Institute (NCI) encourages applications from institutions/organizations that propose to examine associations between nutrition and alcohol-related health outcomes in humans and animal models. The goal of this program announcement is to stimulate a broad range of research on the role of nutrition in the development, prevention, and treatment of a variety of alcohol-related health outcomes including alcohol dependence and psychiatric co-morbidities, chronic and acute diseases, and organ function and damage. Study designs may include biomedical research, epidemiologic approaches, and intervention studies. Award amounts are not limited over a maximum five-year project period. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-360 and PA-13-361, that utilize the R03 Small Grant Program and R21 Exploratory/Developmental Grant mechanisms, respectively.

Building a Genetic and Genomic Knowledge Base in Dental, Oral, and Craniofacial Diseases and Disorders (R01)
National Institutes of Health, National Institute of Dental and Craniofacial Research (NIDCR)
Contact: Emily Harris, 301/594-4846, emily.harris@nih.gov
Solicitation number: PA-11-317
This FOA encourages research into dental, oral, and craniofacial diseases and disorders for which there is evidence for genetic heritability but for which we do not have a strong understanding of the genetics/genomics of the disease or disorder. Applicable areas of investigation include identification of promising areas of the genome, and characterization and elucidation of the function(s) of genetic variants that affect disease risk in humans. The ultimate goal of these studies will be to drive development of effective diagnostic, therapeutic, and preventive approaches. The maximum project period is five years.
Renal Function and Chronic Kidney Disease in Aging (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute on Aging
http://grants.nih.gov/grants/guide/pa-files/PA-12-211.html
Contact: Varies with research interest
Solicitation number: PA-12-211
This FOA invites applications that propose basic, clinical, and translational research on chronic kidney disease (CKD) and its consequences in aging and in older persons. Applications should focus on the 1) biology and pathophysiology of CKD in animal models; 2) etiology and pathophysiology of CKD in older adults; 3) epidemiology and risk factors for the development of CKD with advancing age; and/or 4) diagnosis, medical management and clinical outcomes of CKD in this population. Research supported by this initiative should enhance knowledge of CKD and its consequences in older adults and provide evidence-based guidance in the diagnosis, prevention, and treatment of CKD in older persons. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-210, that utilizes the R21 Exploratory/Developmental Research Grant Award mechanism. The maximum project period is five years.

Identifying Non-coding RNA Targets for Early Detection of Cancer (R01)
National Institutes of Health, National Cancer Institute (NCI)
Contact: Wendy Wang, 301/594-7607, wangw@mail.nih.gov
Solicitation number: PA-12-213
This FOA encourages research projects on non-coding RNAs (ncRNAs) and their targets in preneoplastic lesions and early stage cancers. This FOA also encourages research projects to assess the usefulness of stable microRNAs (miRNAs) and ncRNAs to predict progression to cancer and as biomarkers for early cancer detection and screening. Building on both basic and biomarker research on microRNAs (miRNA), this FOA will further promote research on all classes of ncRNAs and support the translation of stable miRNAs into cancer screening or diagnostic tests. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-214, that utilizes the R21 Exploratory/Developmental Research Grant Award. The maximum project period is five years.

Women's Mental Health During Pregnancy and the Postpartum Period (R01)
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institute on Aging
Contact: Varies with research interest
Solicitation number: PA-12-216
The purpose of this FOA is to outline priority areas for research related to women’s mental health during pregnancy and the postpartum period. Priority areas include basic and clinical neuroscience, studies of clinical course, epidemiological factors and risk factors, as well as interventions and services research. The NIMH, NICHD, and NIDA are committed to supporting research that will increase scientific understanding of and treatments for mental disorders experienced by women during and following pregnancy. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-215, that utilizes the R21 Exploratory/Developmental Research Grant.
Functions of Skeletal Muscle beyond Contraction (R01)
National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
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.

Biomarkers for Early Detection of Hematopoietic Malignancies (R01)
National Institutes of Health, National Cancer Institute (NCI)
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.

Research on Psychopathology In Intellectual Disabilities (R01)
National Institutes of Health, National Institute of Mental Health (NIMH)
Contact: Lisa Gilotty, 301/443-3825, giltottyl@mail.nih.gov
Solicitation number: PA-12-219
The purpose of this FOA 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. This FOA calls for research on: 1) the prevalence rates of mental illness among persons with intellectual disabilities; 2) the development of appropriate psychiatric assessment instruments for use with persons with intellectual disabilities; 3) the biological and environmental precursors of psychiatric disorders in children who have, or who are at risk for, intellectual disabilities; 4) the effectiveness of mental health services for persons with intellectual disabilities, including methods for enhancing treatment compliance while living in the community or attending special education classes; 5) the development of early interventions designed to prevent emotional and behavioral problems in infants and toddlers with intellectual disabilities; 6) the manifestations of particular psychiatric disorders and the response to treatment, and how these may vary as a function of cognitive or functional disability or developmental level; 7) the integration of service delivery models that provide a range of supportive and therapeutic services to those with mental illness and intellectual disabilities; and 8) the development of novel approaches to diagnosing and treating mental illness in the context of intellectual disabilities. The maximum project period is five years.
Stem Cells and Alcohol-induced Tissue Injuries (R01)

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


Contact: Peter Gao, 301/443-6106, gaozh@mail.nih.gov

Solicitation number: PA-12-233

This FOA encourages applications to study human and non-human stem cells involved in alcohol-induced tissue injuries. Alcohol abuse is known to cause pathology in a number of organ systems. Disorders most commonly associated with chronic alcohol consumption include alcoholic liver disease (ALD), pancreatitis, cardiovascular disease, neural damage, endocrine dysfunction, osteoporosis, cancer, and immune dysfunction. The objective of this FOA is to understand the role of stem cells in alcohol-induced tissue damage and recovery, particularly how they are influenced by alcohol metabolism and their role in alcohol-related cancers. 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, PAR-12-232, that utilizes the R21 Exploratory/Developmental Grant.

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 to parenthood 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.

Lymphatics in Health and Disease in the Digestive, Urinary, Cardiovascular and Pulmonary Systems (R01)

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


Contact: Varies with research interest

Solicitation number: PAR-12-259

This FOA is to encourage Research Project Grant (R01) applications for research into aspects of lymphatic vessel physiology and pathophysiology related to health and disease of digestive system and urinary tract organs, and cardiovascular and pulmonary systems; in resolution of thromboembolic events; and inflammation and immune responses as they relate to these diseases. However, studies with the major focus on immune mechanisms will not be considered responsive. Studies to understand the factors that control local lymphatic vessel functional anatomy and physiology during health or disease in these organs/systems, and the mechanisms by which alterations of lymphatic vessel function affect organ function, are of interest. Application budgets are limited to $250K in direct costs per year for R01 applications for a maximum project period of five years. This FOA runs in parallel with FOAs of identical scientific scope: PAR-12-260, which utilizes the R21 Exploratory/Developmental Grant and PA-12-258, which utilizes the R43/R44 Small Business Innovation Research (SBIR) Grant - Phase I, Phase II, and Fast-Track.
The Impact of Parental Military Deployment and Reintegration on Child and Family Functioning (R01)

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


Contact: Varies with research interest

Solicitation number: PA-11-200

The purpose of this FOA is to encourage interdisciplinary studies on the impact of parental military deployment, combat-related stress, and reintegration with the family on child social and affective development outcomes as well as on family functioning. Longitudinal prospective studies with diverse samples would address important gaps in the literature and are highly encouraged. Descriptive studies addressing the particular concerns of early childhood, middle childhood and adolescence are also encouraged. Application budgets 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, PA-11-201, which utilizes the R13 Support for Conferences and Scientific Meetings mechanism, and PA-11-202, which utilizes the R21 Exploratory/Developmental Research Grant Award 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.

Innovative Research Methods - Prevention and Management of Symptoms in Chronic Illness (R01)

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


Contact: Varies with research interest

Solicitation number: PA-13-165

This FOA seeks to update the randomized control trial (RCT) design using novel research methods that are practical, innovative, and hold promise for producing more effective outcomes. Novel clinical research designs, applied to symptom management trials, may identify those treatment strategies that best alter the course of symptom burden in chronic illness by addressing the issues of varied treatment responses across patients, subject retention, and adherence to treatment regimens. Research of interest includes but is not limited to work that seeks to: 1) Develop and test optimal interventions using innovative methodological designs that address the challenge of varied treatment responses across patients; 2) Identify the comparative effectiveness of interventions that have been designed and tested using different methodological designs; and 3) Conceptualize new methods and/or improve upon current methods (i.e., EHR enabled research) for developing and testing optimal interventions. Applications with budgets of $350K or less in direct costs per year with a project period of 3-4 years are encouraged. This FOA runs in parallel with other FOAs of identical scientific scope: PA-13-166, that utilizes the R15 Academic Research Enhancement Award (AREA) mechanism; and PA-13-167, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Existing Data Sets and Stored Biospecimens to Address Clinical Aging Research Questions

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

Contact: Varies with research interest
Solicitation number: PA-13-168

This FOA invites applications employing secondary analysis of existing data sets or stored biospecimens, to address clinically-related issues on aging changes influencing health across the life span, and/or on diseases and disabilities in older persons. This FOA will support activities addressing specific hypotheses in clinical aging research and/or to inform the design and implementation of future epidemiologic or human intervention studies, or current geriatric practice in maintenance of health, management of disease, and prevention of disability. Existing data sets may also be used to develop and test new statistical analytical approaches. Costs for archiving of data to be made publicly available may be included in the budget, as long as the archival activities are pertinent to the proposed secondary analyses. The maximum project period is five years.

Alcohol Use Disorders - Treatment, Services, and Recovery Research (R01)

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

Contact: Page Chiapella, 301/443-4715, pchiapel@wilco.niaaa.nih.gov
Solicitation number: PA-13-160

The FOA invites applications to support research on various topics in the field of alcohol treatment and services for alcohol use disorders. The scope of interest is wide-ranging. It includes pharmacologic and behavioral treatments; recovery strategies; interventions for alcohol-induced tissue damage; and the organizational, financial, management, and environmental factors that facilitate or inhibit the delivery of evidence-based services for alcohol use disorders. Research objectives of this FOA include, but are not limited to, research within the following four broad research domains: (1) medications development for the treatment of alcohol use disorders and alcohol-induced tissue damage; (2) behavioral therapies and mechanisms of behavioral change; (3) health services research; and (4) recovery research. Cutting across these domains, NIAAA encourages treatment and health services-related studies on a number of special emphasis populations and topics including: (a) psychiatric/substance abuse/medical comorbidity, (b) adolescents, (c) fetal alcohol spectrum disorders, (d) health disparities/special populations, and (e) use of novel methods and technologies. Application budgets are not limited, but need to reflect the actual needs of the proposed project and the maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope: PA-13-161, that utilizes the R21 Exploratory/Developmental Grant Award mechanism, and PA-13-162, that utilizes the R03 Small Grant Program mechanism.

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.
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.

Secondary Analyses of Alcohol and Chronic Disease (R01)

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


Contact: Rosalind Breslow, 301/594-6231, rbreslow@mail.nih.gov

Solicitation number: PA-13-260

This FOA encourages R01 applications that propose to conduct secondary analyses of alcohol as it relates to chronic disease etiology and epidemiology. The goal of this program is to facilitate innovative yet cost-effective research utilizing previously collected data. Of particular interest is the examination of understudied areas, populations, exposures, or outcomes. Exposures of interest include, but are not limited to: 1) Drinking patterns such as quantity/frequency, binge, or drinking with meals; 2) Changes in drinking over time; 3) Alcohol dependence/abuse; 4) Gene-environment interactions; 5) Lifestyle factors such as smoking, nutrition/eating behavior, physical activity; 6) Concurrent use of prescription drugs particularly among moderate drinkers or the elderly; and 7) Concurrent use of illicit drugs. Application budgets are not limited, but need to reflect actual needs of the proposed project. The total project period may not exceed five years. This FOA runs in parallel with a FOAs of identical scientific scope, PA-13-261 and PA-13-251, that utilize the R03 Small Grant Program and R21 Exploratory/Developmental Research Grant Award mechanisms, respectively.
Implications of New Digital Media Use for Underage Drinking, Drinking-Related Behaviors, and Prevention Research
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: Robert Freeman, 301/443-8820, rfreeman@mail.nih.gov
Solicitation number: PA-13-262
This FOA encourages R01 research grant applications from institutions/organizations that propose to investigate whether, and how, heavy involvement in new digital media usage, particularly social media and social networking sites, may influence adolescent alcohol use and drinking patterns, as well as drinking-related problems. One focus is motivated by recent reports (see below) suggesting that alcohol use increasingly is mentioned and visually displayed on many adolescents’ social networking profiles. This FOA also encourages applications proposing to explore the ways in which new digital media may be utilized as platforms for preventive interventions aimed at underage drinking and related problems. Application budgets are not limited and the maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-13-263, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Research Project Grant (Parent R01)
National Institutes of Health, Cross-Institute
Contact: 301/435-0714, GrantsInfo@nih.gov
Solicitation number: PA-13-302
The Research Project Grant (R01) supports a discrete, specified, circumscribed project to be performed by the named investigator(s) in areas representing the specific interests and competencies of the investigator(s). The R01 is the original, and historically the oldest, grant mechanism used by the NIH to support health-related research and development. The proposed project must be related to the programmatic interests of one or more of the participating NIH Institutes and Centers (ICs) based on descriptions of their programs. Each IC maintains a web site with funding opportunities and areas of interest. Contacting an IC representative may help focus the proposed research based on an understanding of the mission of the IC. For specific information about the mission of each NIH IC, see http://www.nih.gov/icd, which provides a brief summary of the research interests in each IC and access to individual IC websites. Application budgets are not limited.

Behavioral and Social Science Research on Understanding and Reducing Health Disparities (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-292
The purpose of this FOA is to encourage behavioral and social science research on the causes and solutions to health and disabilities disparities in the U. S. population. Emphasis is placed on research in and among three broad areas of action: 1) public policy, 2) health care, and 3) disease/disability prevention. Particular attention is given to reducing “health gaps” among groups. Applications that utilize an interdisciplinary approach, investigate multiple levels of analysis, incorporate a life-course perspective, and/or employ innovative methods such as systems science or community-based participatory research are particularly encouraged. Application budgets are not limited and will not exceed five years.
Biomarkers - Bridging Pediatric and Adult Therapeutics (R01)

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


Contact: George Giacoia, 301/496-5589, gg65m@mail.nih.gov

Solicitation number: PAR-13-296

This FOA encourages grant applications that propose adapting adult biomarkers to children. This would include the application and validation of biomarkers developed in adults to pediatric diagnosis, prognosis, and estimation of disease progression, toxicity and response to therapy. Projects supported by this FOA will be confined to those biomarkers that correlate with a clinical observation, have been extensively studied in adults, and for which there is solid evidence that they have pediatric applications. Discovery of new biomarkers for use in new drug development or in preclinical studies is not part of this FOA. Also excluded are biomarkers for diseases that are unique to children and have no adult correlates. Application budgets are not limited, and will not exceed five years. This FOA runs in parallel with FOAs of identical scientific scope, PAR-13-299 and PAR-13-295, that utilize the R03 Small Grant Program and R21 Exploratory/Developmental Grant mechanisms, respectively.

Developmental Pharmacology and Toxicology - Role of Ontogeny (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-13-306

This FOA encourages grant applications from institutions or organizations that propose multidisciplinary, investigator-initiated basic and translational research in developmental pharmacology and toxicology. Particular emphasis should be placed on the role of ontogeny on drug metabolizing enzymes, transporters, receptors and signaling pathways across developmental periods from fetal life to adolescence affecting drug action and toxicity. This initiative is aimed at unraveling the effects of development on mechanisms of drug action/ pharmacodynamics and biotransformation, prenatally and from birth through adolescence. Application budgets are not to exceed five years. This FOA runs in parallel with FOAs of identical scientific scope, PAR-13-308 and PAR-13-307, that utilize the R21 Exploratory/Developmental Grant and Small Grant Program mechanisms, respectively.

Intersection of Aging and Biological Mechanisms of Eye Disease (R01)

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


Contact: Varies with research interest

Solicitation number: PA-13-332

The purpose of this FOA for the National Eye Institute is to encourage submission of new, innovative projects directed to exploring this area through: 1) understanding how the biology of aging contributes to disease; 2) evaluating how the failure of homeostatic processes causes or allows the transition from aging to early disease; 3) defining the biological staging of disease to understand pathophysiology, identify biomarkers, and explore therapy; and 4) distinguishing normal ocular changes associated with aging from pathophysiologic changes. Advanced age is a risk factor for many of the leading causes of vision loss, including age-related macular degeneration, cataract, glaucoma, diabetic retinopathy, dry eye syndrome, and presbyopia. Better knowledge of the biological mechanisms of disease will lead to new strategies to prevent or delay progress of these age-related blinding conditions. An application may propose design-directed, developmental, discovery-driven, or hypothesis-driven research. It is appropriate to propose small, multidisciplinary teams applying an integrative approach to solve these problems. The purpose of this FOA for the National Institute on Aging is to encourage research projects that will: 1) investigate the diverse cellular, molecular, genetic, and neural circuitry mechanisms underlying age-related changes in the eye; 2) ascertain the impact of age-related changes in the eye on the progression of visual function as well as associated brain or behavioral functions for the aged and the utility of such changes as early biomarkers for pathological processes for the aged; and 3) identify and evaluate interventions that will modify age-related changes to alter the course of pathological development. Application budgets are not limited over a maximum five-year period. This FOA runs in parallel with a FOA of identical scientific scope, PA-13-283, that utilizes the R01 Research Project Grant mechanism.
**Development of Mathematical Cognition & Reasoning & the Prevention of Math Learning Disabilities**

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


Contact: Kathy Koepke, 301/435-6855, KMK@nih.gov

Solicitation number: PA-12-248

This FOA is intended to stimulate innovative, multidisciplinary research on the cognitive, neuroplasticity, genetic and environmental factors involved in math learning and learning disabilities. This research will advance our knowledge of the factors that contribute to the development, advancement, and impairment of mathematical cognition, including the ability to apprehend and reason about magnitude, number, temporal and spatial relationships, and concomitantly provide the evidence base to inform the design of effective (i.e., efficacious in "real world" contexts) interventions for the remediation and/or prevention of mathematical learning disabilities. Application budgets are not limited, and have a maximum project period of five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-12-247 and PA-12-246, that utilize the R03 Small Grant Program and R21 Exploratory/Developmental Grant mechanisms, respectively.

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**Mechanisms of Alcohol and Stimulant 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-13-339

The purpose of this FOA is to promote research to study the neurobiological and behavioral mechanisms that might explain how alcohol and stimulants interact at genetic, epigenetic, cellular, neurocircuitry and behavioral levels to promote co-addiction. Areas of research interest include but are not limited to: 1) Identifying genetic and epigenetic factors that underlie the joint vulnerability to alcohol and stimulant addiction; 2) Determining whether the reinforcement induced by the combination of alcohol and stimulants is additive or synergistic; and 3) Determining whether the combined use of alcohol and stimulants diminishes negative effects associated with either substance. Application budgets are not limited, and have a maximum five-year project period of performance.

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**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.
Ongoing

**Catalyzing New International Collaborations**
National Science Foundation


Contact: Nancy Sung, 703/292-8710, OISE-CNIC@NSF.GOV

Solicitation number: NSF 12-573

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 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.

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Ongoing

**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.

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Ongoing

**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.

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Ongoing

**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.

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**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.

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**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.
Ongoing

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

National Science Foundation


Contact: Vasant Honavar, vohonavar@nsf.gov

Solicitation number:

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.

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Ongoing

**Networking Technology and Systems (NeTS - JUNO)**

National Science Foundation


Contact: Joseph Lyles, 703/292-8950, jlyles@nsf.gov

Solicitation number: NSF 13-574

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.

11/20/2013   Full Proposal

**Ecology and Evolution of Infectious Diseases (EEID)**

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 13-577

This program supports research on the ecological, evolutionary, and socio-ecological principles and processes that regulate the transmission dynamics of infectious diseases. The program's focus is on both the discovery, and the building and testing models that elucidate these principles and processes. Research proposals should focus on understanding the determinants of transmission of diseases to humans, non-human animals, or plants; the spread of pathogens by environmental factors, vectors or abiotic agents; the population dynamics and genetics of reservoir species or alternate hosts; or the cultural, social, behavioral, and economic dimensions of disease transmission. EEID projects must have a minimum budget of $1M. The maximum award size is $2.5M over a project period of up to five years.
**East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI)**

National Science Foundation, Office of International Science and Engineering (OISE)


Contact: Elena Hillenburg, 703/292-2993, oise-eapsi@nsf.gov

Solicitation number: NSF 13-593

NSF and selected foreign counterpart science and technology agencies sponsor international research institutes for US graduate students in seven East Asia and Pacific locations at times set by the counterpart agencies between June and August each year. These Summer Institutes (EAPSI) operate similarly and the research visits to a particular location take place at the same time. Although applicants apply individually to participate in a Summer Institute, awardees become part of the cohort for each location. Applicants must propose a location, host scientist, and a research project that is appropriate for the host site and duration of the international visit. An EAPSI award provides U.S. graduate students in science, engineering, and education: 1) first-hand research experiences in Australia, China, Japan, Korea, New Zealand, Singapore or Taiwan; 2) an introduction to the science, science policy, and scientific infrastructure of the respective location; and 3) an orientation to the society, culture and language. It is expected that EAPSI awards will help students initiate professional relationships to enable future collaboration with foreign counterparts. The NSF portion of the EAPSI award consists of several parts: a stipend of $5K, attendance at the pre-departure orientation, and round-trip transportation from the Fellow’s home to the host location in the form of a non-refundable airline ticket on a U.S. flag carrier in accordance with GSA requirements and issued by the NSF travel contractor. The foreign counterparts provide in-country room and board and travel for research visits. There will be an anticipated $2.4M to support as many as 205 research grants, pending the availability of funds.

**NSF DOE Partnership in Basic Plasma Science and Engineering**

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 13-596

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.

**Science, Engineering and Education for Sustainability Fellows (SEES Fellows)**

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 13-595

Through SEES Fellows, NSF seeks to advance science, engineering, and education to inform the societal actions needed for environmental and economic sustainability and sustainable human well-being while creating the necessary workforce to address these challenges. The program’s emphasis is to facilitate investigations that cross traditional disciplinary boundaries and address issues of sustainability through a systems approach, building bridges between academic inquiry, economic growth, and societal needs. Fellows must propose a well-integrated, synergistic research plan with their chosen host institution, an effective research partnership(s), and a meaningful professional-development plan. The anticipated average award size will be from $275K to $350K for FY 2014.
Support for Construction of Direct Detection Dark Matter Experiments in Particle Astrophysics

National Science Foundation, Mathematical and Physical Sciences (MPS)

Contact: Jean Allen, 703/292-8783, jcallen@nsf.gov
Solicitation number: NSF 13-597

This solicitation invites proposals for the next generation direct detection experiments for studying dark matter. Currently, there are three complementary methods for studying dark matter: 1) accelerator searches for dark matter particle production; 2) indirect detection of dark matter annihilation within the Galaxy; and 3) the direct detection of Galactic dark matter particles that pass through terrestrial detectors. Any viable dark matter species may be the object of an investigation. The strength of theoretical arguments for the existence of a given species will be a factor in the selection process.

Accelerator Science

National Science Foundation

Contact: Saul Gonzalez, 703/292-2093, sgonzale@nsf.gov
Solicitation number: PD 13-7243

This program will support and foster research at universities that exploits the educational and discovery potential of basic accelerator physics research, and allows the development of transformational discoveries in this crosscutting academic discipline. In particular, this program seeks to support research with the potential to disrupt existing paradigms and advance accelerator science at a fundamental level, such as enabling discoveries that lead to novel, compact, powerful, and/or cost-effective accelerators. Key questions that this program will address include: 1) what are the fundamental limitations affecting the acceleration, control, intensity, and quality of particle beams; 2) what novel approaches can be employed to substantially increase accelerating gradients; 3) how can developments in other fields lead to new approaches in accelerator science and beam physics.

Archaeology and Archaeometry

National Science Foundation

Contact: John Yellen, 703/292-8759, jyellen@nsf.gov
Solicitation number: PD 98-1391

The Archaeology Program provides support for anthropologically relevant archaeological research at both a "senior" and doctoral dissertation level. It also funds anthropologically significant archaeometric research and high risk exploratory research proposals. For more information about multi-disciplinary research and training opportunities, please visit the SBE Office of Multidisciplinary Activities (SMA) website.

CISE-MPS Interdisciplinary Faculty Program in Quantum Information Science

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

Contact: Varies with research interest
Solicitation number: NSF 12-540

This program is designed to promote research in the area of Quantum Information Science (QIS) by providing resources to allow QIS researchers and researchers from the CISE or MPS disciplines to actively engage in joint research efforts, addressing problems at the interface between the mathematical and physical sciences and computer and information sciences through long-term visits by faculty to a host institution. NSF anticipates making three to four awards for each deadline. Awards are limited to $250K.
Interdisciplinary Behavioral and Social Science Research (IBSS)
National Science Foundation, Social, Behavioral, and Economic Sciences (SBE)
Contact: Thomas Baerwald, 703/292-7301, tbaerwal@nsf.gov
Solicitation number: NSF 12-614
This competition establishes new opportunities to encourage, facilitate, and support interdisciplinary research that brings together researchers from different SBE disciplinary communities. It will focus on research problems that can be fully addressed only by interdisciplinary teams using approaches from multiple fields, and it will support research that promises results that will be meaningful across the contributing disciplines and that will explicitly advance science beyond existing intellectual boundaries. The IBSS competition promotes the conduct of interdisciplinary research by teams of investigators in the social and behavioral sciences. Emphasis is placed on support for research that involves researchers from multiple disciplinary fields, that integrates scientific theoretical approaches and methodologies from multiple disciplinary fields, and that is likely to yield generalizable insights and information that will advance basic knowledge and capabilities across multiple disciplinary fields. The IBSS competition invites proposals for two different kinds of projects: 1) IBSS Large Interdisciplinary Research Projects which may be supported by awards as large as $1M. Most projects will extend from two to five years in duration; and 2) IBSS Interdisciplinary Team Exploratory Projects which may be supported by awards as large as $250K. Most exploratory projects will extend from one to two years in duration.

Cyber-Enabled Sustainability Science and Engineering (CyberSEES)
National Science Foundation, Cross-Directorate
Contact: Varies with research interest
Solicitation number: NSF 13-500
The CyberSEES program aims to advance interdisciplinary research in which the science and engineering of sustainability are enabled by new advances in computing, and where computational innovation is grounded in the context of sustainability problems. The CyberSEES program supports research and education projects on all sustainability topics in which advances in computing are integral, including: 1) the areas of optimization, modeling, simulation, prediction and inference; 2) large-scale data management and analytics; 3) advanced sensing techniques; 4) human computer interaction and social computing; 5) infrastructure design, control and management; and 6) intelligent systems and decision-making. Information technologies, computational solutions, and advances in cyberinfrastructure are essential to understanding the complex interactions and tradeoffs tied to immediate and emerging sustainability challenges in many critical areas, including climate change, natural resource depletion, loss of biodiversity, extreme events, energy, sustainable infrastructure, and human well-being on a resource-constrained planet. Additionally, the widespread, intensive use of computing technologies also introduces sustainability challenges and motivates new approaches across the lifecycle of technology design and use. The CyberSEES solicitation will support two types of proposals: 1) Type 1 proposals with total budgets (including indirect costs) not exceeding $300K over a period of two years. These are smaller proof-of-concept, capacity building, or exploratory research and education projects led by two or more investigators; and 2) Type 2 proposals with total budgets (including indirect costs) not exceeding $1.2M over a period of up to four years. These proposals are for integrative research and education projects, suitable for collaborative teams led by two or more investigators.
Ocean Acidification (OA)
National Science Foundation, Biological Sciences (BIO), Geosciences (GEO)
Contact: Varies with research interest
Solicitation number: NSF 13-586

The OA program supports research focused on the chemistry of ocean acidification and its interplay with fundamental biogeochemical and physiological processes of organisms; the implications of these effects for ecosystem structure and function; and how the earth system history informs our understanding of the effects of ocean acidification on the present day and future ocean. Research projects are encouraged that identify vulnerable organisms or ecosystems, as indicated by current trends or the earth's geologic record. Proposals are encouraged that develop and integrate interdisciplinary perspectives and use diverse approaches to investigate one or more of the following basic research areas: 1) Ocean acidification interconnected to oceanic biology, chemistry, physics, and geology; 2) Predicting the consequences of ocean acidification on ecosystem health and function; and/or 3) Interpreting the geologic record to reveal the history of climate change and the assemblages of organisms that have risen, persisted, or declined, as the earth system has evolved. Proposals may be of any size and duration as appropriate for the proposed project.

Hydrologic Sciences
National Science Foundation, Geosciences (GEO)
Contact: Thomas Torgersen, 703/292-4738, ttorgers@nsf.gov
Solicitation number: NSF 13-531

This program focuses on the fluxes of water in the environment that constitute the water cycle as well as the mass and energy transport function of the water cycle in the environment. The Program supports studying processes from rainfall to runoff to infiltration and streamflow; evaporation and transpiration; as well as the flow of water in soils and aquifers and the transport of suspended, dissolved and colloidal components. This program retains a strong focus on linking the fluxes of water and the components carried by water across the boundaries between various interacting components of the terrestrial system and the mechanisms by which these fluxes co-organize over a variety of timescales and/or alter the fundamentals of the interacting components. The Program is also interested in how water interacts with the solid phase, the landscape and the ecosystem as well as how such interactions and couplings are altered by land use and climate change. Studies may address aqueous geochemistry and solid phase interactions as well as physical, chemical, and biological processes as coupled to water transport. Regular research awards supported by HS are generally but not exclusively in the range of $250K to $700K and of 2-4 years duration. Hydrologic process synthesis projects should be at a level appropriate to the scope of topic and are expected to be conducted at total levels of <$1M over 3-5 years with an emphasis on support of graduate students and postdocs.
Alliances for Graduate Education and the Professoriate (AGEP) 2014 - Limited Submission

National Science Foundation


Contact:  Mark Leddy, 703/292-4655, mleddy@nsf.gov

Solicitation number:  NSF 14-505

AGEP is committed to the national goal of increasing the numbers of underrepresented minorities (URMs), including those with disabilities, entering and completing science, technology, engineering, and mathematics (STEM) graduate education and postdoctoral training to levels representative of the available pool. URMs include African Americans, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians and other Pacific Islanders.

AGEP projects must focus on URM U.S. citizens in STEM graduate education, and/or postdoctoral training, and their preparation for academic STEM careers at all types of institutions of higher education. STEM professional development more broadly may be included in projects with a strong and compelling argument. AGEP is interested in proposals that include any or all STEM fields supported by NSF including the social, behavioral and economic sciences, and multi-, cross-, or inter-disciplinary STEM fields.

AGEP intends to support the following types of projects: (1) AGEP-Transformation - Strategic alliances of institutions and organizations to develop, implement, and study innovative evidence-based models and standards for STEM graduate education, postdoctoral training, and academic STEM career preparation that eliminate or mitigate negative factors and promote positive practices for URMs. (2) AGEP-Knowledge Adoption and Translation (AGEP-KAT) - Projects to expand the adoption (or adaptation) of research findings and evidence-based strategies and practices related to the participation and success of URMs in STEM graduate education, postdoctoral training, and academic STEM careers at all types of institutions of higher education. (3) AGEP-Broadening Participation Research in STEM Education (AGEP-BPR) - Investigator initiated empirical research projects that seek to create and study new theory-driven models and innovations related to the participation and success of URMs in STEM graduate education, postdoctoral training, and academic STEM careers at all types of institutions of higher education.

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.
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.

Data-Intensive Research to Improve Teaching and Learning
National Science Foundation, Education and Human Resources (EHR)
Contact: Doris Carver, 703/292-5038, dcarver@nsf.gov
Solicitation number: NSF 13-565
The goal of this FOA is to foster novel, transformative, multidisciplinary approaches that address the use of large data sets to create actionable knowledge for improving STEM teaching and learning environments (formal and informal) in the medium term, and to revolutionize learning in the longer term. These approaches will involve the work of learning scientists, STEM disciplinary experts, computer scientists, statisticians, database experts and educational researchers who design and study learning environments. Among the potential benefits of integrating approaches from these disciplines are improving student learning and engagement, optimizing personalized instruction, and supporting rapid decision making to help educators respond more effectively to the learning needs of individuals and groups of learners in multiple settings. The scope of this activity does not include infrastructure development focused on database design and development for education domains. Participants in the Ideas Lab, a process that entails participation in an intensive five-day residential workshop, will frame a series of challenges in the approaches to the creation of actionable information from large data sets. Participants will be encouraged to frame novel challenges related to the use of large data sets in the teaching and learning environment.

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.
**Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)**

National Science Foundation, Cross-Directorate

[Link](http://www.nsf.gov/pubs/2012/nsf12505/nsf12505.htm)

Contact: Varies with research interest

Solicitation number: NSF 12-505

The NSF invites proposals that address the improvement of Biological Field Stations and Marine Laboratories. Requests must fall exclusively into one of two classes: Improvement or Planning. Improvement proposals should focus on well-defined projects of major equipment acquisition, data management and communication systems modernization, or physical plant improvement. Only one proposal may be submitted on behalf of any single facility per round of the FSML competition. This limitation does not prevent a single institution from submitting more than one proposal, as long as each proposal is submitted on behalf of a different eligible facility. Planning proposals are for strategic institutional planning for the long term research and education goals of the station. Proposals may request up to $350K. Requests for planning grants are limited to $25K.

12/13/2013  Letter of Intent (required)
2/10/2014  Full Proposal
10/6/2014  Letter of Intent (required)

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

National Science Foundation, Cross-Directorate, Engineering (ENG)


Contact: Ram Gupta, 703/292-2407, ragupta@nsf.gov

Solicitation number: NSF 14-511

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.

12/16/2013  Application
3/15/2014  Application

**Innovation Corps Program (I-Corps)**

National Science Foundation, Cross-Directorate


Contact: Errol Arkilic, 703/292-8095, earkilic@nsf.gov

Solicitation number: NSF 12-602

The purpose of this program is to identify NSF-funded researchers who will receive additional support -- in the form of mentoring and funding -- to accelerate innovation that can attract subsequent third-party funding. This grant gives the project team access to resources to help determine the readiness to transition technology developed by previously-funded or currently-funded NSF projects. The outcome of the I-Corps projects will be threefold: 1) a clear go/no go decision regarding viability of products and services, 2) should the decision be to move the effort forward, a transition plan to do so, and 3) a technology demonstration for potential partners. One to 25 awards not exceeding $50K will be made. The maximum award duration is six months.
Oceanographic Facilities and Equipment Support

National Science Foundation


Contact: Varies with research interest

Solicitation number: NSF 13-589

These awards are made for the procurement, conversion and/or up-grade, enhancement or annual operation of platforms in the ocean, coastal, near-shore and Great Lakes. The individual programs covered within this solicitation include: 1) Ship Operations; 2) Oceanographic Technical Services (OTS); 3) Oceanographic Instrumentation (OI); 4) Shipboard Scientific Support Equipment (SSSE); 5) Ship Acquisition and Upgrade (SAU); and 6) Other Facility Activities (OFA). The duration of project periods are for either two or five years, and award amounts will depend upon the needs of the project and availability of funds.

CISE Mid-Scale Infrastructure Research - NSFCLOUD (CRI - NSFCLOUD)

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


Contact: Joseph Lyles, 703/292-8950, jlyles@nsf.gov

Solicitation number: NSF 13-602

In this solicitation, NSF seeks proposals for research infrastructure that build upon existing investments as well as the recent rapid growth in cloud computing, and enable the academic research community to develop and experiment with novel cloud and cloud-like architectures that can support a diversity of innovative applications. CISE anticipates two phases of activity for NSFCLOUD. This solicitation enables Phase I, which will support required infrastructure design and ramp-up activities, as well as demonstration of readiness for full-fledged execution. An anticipated future solicitation will enable Phase II, during which funded infrastructure is expected to become fully staffed and operational, fulfilling the proposed mission of serving as a testbed that is used extensively by the research community.

Secure and Trustworthy Cyberspace

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


Contact: Varies with research interest

Solicitation number: NSF 13-578

The SaTC program welcomes proposals that address Cybersecurity from a Trustworthy Computing Systems (TWC) perspective and/or a Social, Behavioral and Economic Sciences (SBE) perspective, including proposals that integrate research addressing both of these perspectives as well as proposals focusing entirely on Cybersecurity Education. Proposals may be submitted in one of the following three categories: 1) Small projects: up to $500K in total budget, with durations of up to three years; 2) Medium projects: $500K to $1.2M in total budget, with durations of up to four years; and 3) Frontier projects: $1.2M to $10M in total budget, with durations of up to five years. In addition, the SaTC program seeks proposals addressing Cybersecurity Education with total budgets limited to $300K and durations of up to two years.

Decadal and Regional Climate Prediction using Earth System Models (EaSM)

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 13-607

This opportunity, sponsored by NSF, U.S. Department of Agriculture, and U.S. Department of Energy, enables interagency cooperation on one of the most pressing problems of the millennium: climate change, how it is likely to affect our world, and how we can plan for its consequences. This challenge calls for the development and application of next-generation Earth System Models that include coupled and interactive representations of such things as ocean and atmospheric currents, human activities, agricultural working lands and forests, urban environments, biogeochemistry, atmospheric chemistry, the water cycle and land ice. Successful proposals will develop intellectual excitement in the participating disciplinary communities and engage diverse interdisciplinary teams with sufficient breadth to achieve the scientific objectives. Awards are expected to range from $300K to $600K per year over three to five 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.

1/10/2014 Full Proposal

Algorithms for Threat Detection (ATD)

National Science Foundation, Mathematical and Physical Sciences (MPS)

Contact: Mary Ann Horn, 703/292-4879, mhorn@nsf.gov
Solicitation number: NSF 10-540

This program solicits proposals from the mathematical sciences community to develop algorithms for the detection of biological and chemical threats in two main areas: mathematical and statistical techniques for genomics and mathematical and statistical techniques for the analysis of data from sensor systems. There will be an estimated 15 to 30 awards.

1/10/2014 Full Proposal

Materials Research Science and Engineering Centers (MRSEC) - Limited Submission

National Science Foundation

Contact: Daniele Finotello, 703/292-4676, dfinotel@nsf.gov
Solicitation number: NSF 13-556

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

1/10/2014 Full Proposal

Research on Education and Learning (REAL)

National Science Foundation, Education and Human Resources (EHR)

Contact: 703/292-8650, DRLREAL@nsf.gov
Solicitation number: NSF 13-604

The research REAL supports advances the frontiers of understanding about how more people learn, and use more STEM, more effectively. REAL research advances the frontiers of knowledge about STEM learning and participation across the following overlapping areas: 1) Research on Human Learning in STEM; 2) Research on Learning in STEM Learning Environments; and 3) Broadening Participation Research. Three levels of funding and durations are available to support these investigations: (1) Early Stage Research proposals have a maximum total award size of $500K and a maximum duration of three years; (2) Middle Stage Research proposals have a maximum total award size of $1.5M and a maximum duration of three years; (3) Later Stage Research proposals have a maximum total award size of $2.5M and a maximum duration of five years.
Atmospheric and Geospace Sciences Postdoctoral Research Fellowships
National Science Foundation, Cross-Directorate, Geosciences (GEO)
Contact: Sierra Warren, 703/292-8520, swarren@nsf.gov
Solicitation number: NSF 14-509
The Division of Atmospheric and Geospace Sciences (AGS) awards Postdoctoral Research Fellowships (PRF) to highly qualified investigators within three years of obtaining their PhD to carry out an independent research program. The research plan of each Fellowship must address scientific questions within the scope of AGS disciplines. The program supports researchers for a period of up to two years with Fellowships that can be taken to the institution or national facility of their choice. The program is intended to recognize beginning investigators of significant potential, and provide them with experience in research that will broaden perspectives, facilitate interdisciplinary interactions and help establish them in leadership positions within the Atmospheric and Geospace Sciences community. Awards are anticipated to be $86K per year over a maximum two year period.

Ocean Sciences Postdoctoral Research Fellowships (OCE-PRF)
National Science Foundation
Contact: Larry Weber, 703/292-7240, lweber@nsf.gov
Solicitation number: NSF 13-603
The fellowship program is intended to recognize beginning investigators of significant potential, and provide them with experience that will establish them in positions of leadership in the scientific community. The OCE fellowship program has two tracks: 1) Track 1 - Broadening Participation; and 2) Track 2 - International. Grants are awarded in amounts of $87K per year per fellowship for Track 1 (Broadening Participation) and $97K per year per fellowship for Track 2 (International). Track 2 includes a $10K per year international allowance in order to help cover some of the additional costs of moving and living outside of the United States.

Advancing Informal STEM Learning (AISL) 2014
National Science Foundation
Contact: 703/292-8616, DRLAISL@nsf.gov
Solicitation number: NSF 13-608
The Advancing Informal STEM Learning (AISL) program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and develop understandings of deeper learning by participants. The AISL program supports five types of projects: (1) Pathways, (2) Research in Service to Practice, (3) Innovations in Development, (4) Broad Implementation, and (5) Conferences, Symposia, and Workshops. Normal limits for funding requests of AISL proposals are as follows: (1) Pathways projects: up to $300K with duration up to two years; (2) Research in Service to Practice projects: from $300K to $2M with a duration from two to five years; (3) Innovations in Development projects: $500,000 to $3M with duration up to five years; (4) Broad Implementation projects from $500K to $3M with a duration from two to five years; and (5) Conferences, Symposia, and Workshops projects up to $250K with a duration of up to two years.
Law & Social Sciences (LSS)

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


Contact: Christian Meissner, 703/292-7808, cmeissne@nsf.gov

Solicitation number: NSF 12-507

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

Cultural Anthropology Scholars Awards

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


Contact: Deborah Winslow, 703/292-7315, dwinslow@nsf.gov

Solicitation number: NSF 07-544

The National Science Foundation announces an opportunity for methodological training by cultural anthropologists who are active researchers. The purpose is to help cultural anthropologists upgrade their methodological skills by learning a specific analytical technique which will improve their research abilities. Awards will be for up to 12 months and for a maximum of $50K.

Geobiology and Low-Temperature Geochemistry

National Science Foundation, Geosciences (GEO)


Contact: Enriqueta Barrera, 703/292-8551, ebarrera@nsf.gov

Solicitation number: NSF 09-552

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

Geomorphology and Land Use Dynamics

National Science Foundation, Geosciences (GEO)


Contact: Paul Cutler, 703/292-8548, pcutler@nsf.gov

Solicitation number: NSF 09-537

This program supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that investigates quantitatively the coupling and feedback among such processes, their rates, and their relative roles, especially in the contexts of variation in climatic and tectonic influences and in light of changes due to human impact. Anticipated funding is $3M for a total of 15 to 25 standard or continuing grants per year.
Division of Integrative Organismal Systems

National Science Foundation


Contact: Varies with research interest

Solicitation number: NSF 13-600

The Division of Integrative Organismal Systems (IOS) supports research aimed at understanding why organisms are structured the way they are and function as they do. Proposals should focus on organisms as a fundamental unit of biological organization. Principal Investigators (PIs) are encouraged to apply systems approaches that will lead to conceptual and theoretical insights and predictions about emergent organismal properties. Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, and function, physiological processes, functional morphology, symbioses, interactions of organisms with biotic and abiotic environments, and animal behavior. Proposals are welcomed in all areas of science supported by the Division of Integrative Organismal Systems which include: 1) the Behavioral Systems Cluster; 2) the Developmental Systems Cluster; 3) the Neural Systems Cluster; and 4) the Physiological and Structural Systems Cluster. All investigator-initiated proposals to the core programs in the Division of Integrative Organismal Systems must now be invited based on merit review of preliminary proposals. There is a single submission deadline with a limit of 2 preliminary proposals per investigator per year as PI or co-PI in response to this solicitation. There are no limits on the number of proposals submitted as collaborator or senior personnel. These limits do not pertain to proposals submitted in response to other NSF solicitations.

Computing and Communication Foundations (CCF) - Core Programs

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


Contact: Varies with research interest

Solicitation number: NSF 13-579

This FOA supports research and education projects that develop new knowledge in three core programs: 1) The Algorithmic Foundations (AF) program; 2) The Communications and Information Foundations (CIF) program; and 3) The Software and Hardware Foundations (SHF) program. Research on algorithms for problems that are central to computer science and engineering as well as new techniques for the rigorous analysis of algorithms are of interest. The goal of the AF program is to understand the fundamental limits of resource-bounded computation and to obtain efficient solutions within those limits. The CIF program supports basic research in wireless communications, information theory and coding, and the SHF program supports research and education projects on the design, verification, operation, utilization, and evaluation of computer hardware and software through novel approaches, robust theories, high-leverage tools, and lasting principles. Proposers are invited to submit proposals in three project classes, which are defined as follows: 1) Small Projects - up to $500K total budget with durations up to three years; 2) Medium Projects - $500K to $1.2M total budget with durations up to four years; and 3) Large Projects - $1.2M to $3M total budget with durations up to five years.

Information and Intelligent Systems (IIS) - Core Programs

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


Contact: Varies with research interest

Solicitation number: NSF 13-580

This FOA supports research and education projects that develop new knowledge in three core programs: 1) The Cyber-Human Systems (CHS) program; 2) The Information Integration and Informatics (III) program; and 3) The Robust Intelligence (RI) program. CHS research applies knowledge of computing and communications together with theoretical and practical understanding of behavioral, social and design sciences to better develop diverse kinds of systems. The III program supports research to realize the full transformatrve potential of data, information and knowledge in this increasingly digital and interconnected world. The RI program advances and integrates the research traditions of artificial intelligence, computer vision, human language research, robotics, machine learning, computational neuroscience, cognitive science, and related areas. Proposers are invited to submit proposals in three project classes, which are defined as follows: 1) Small Projects - up to $500K total budget with durations up to three years; 2) Medium Projects - $500K to $1.2M total budget with durations up to four years; and 3) Large Projects - $1.2M to $3M total budget with durations up to five years.
Computer and Network Systems (CNS) - Core Programs

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


Contact: Varies with research interest

Solicitation number: NSF 13-581

This FOA supports research and education projects that develop new knowledge in two core programs: 1) Computer Systems Research (CSR) program; and 2) Networking Technology and Systems (NeTS) program. The CSR core supports four highlighted areas: 1) Cloud Computing; 2) Embedded and Hybrid Systems; 3) Extensible Distributed Systems; and 4) Sustainable Computing. The NeTS core supports three highlighted areas: 1) Networks Leveraging or Advancing New Technologies; 2) Networks that Address Emerging National Needs and Trends; and 3) Meta-Networking Research. Proposers are invited to submit proposals in three project classes, which are defined as follows: 1) Small Projects - up to $500K total budget with durations up to three years; 2) Medium Projects - $500K to $1.2M total budget with durations up to four years; and 3) Large Projects - $1.2M to $3M total budget with durations up to five years.

Cyber-Physical Systems (CPS)

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


Contact: Varies with research interest

Solicitation number: NSF 12-520

The goal of the CPS program is to develop the core system science needed to engineer complex cyber-physical systems upon which people can depend with high confidence. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. Three types of research and education projects will be considered: 1) Breakthrough projects must offer a significant advance in fundamental CPS science, engineering and/or technology that has the potential to change the field; 2) Synergy projects must demonstrate innovation at the intersection of multiple disciplines, to accomplish a clear goal that requires an integrated perspective spanning the disciplines; and 3) Frontiers projects must address clearly identified critical CPS challenges that cannot be achieved by a set of smaller projects. The respective maximum funding amounts are $750K for up to three years, $2M for three to four years, and $10M for four to five years.

National Robotics Initiative (NRI)

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 14-500

The goal of the National Robotics Initiative is to accelerate the development and use of robots that work beside, or cooperatively with, people. Innovative robotics research and applications emphasizing the realization of such co-robots acting in direct support of and in a symbiotic relationship with human partners is supported by the National Science Foundation, NASA, the National Institutes of Health, and the U.S. Department of Agriculture. The purpose of this program is the development of this next generation of robotics, to advance the capability and usability of such systems and artifacts, and to encourage existing and new communities to focus on innovative application areas. It will address the entire life cycle from fundamental research and development to industry manufacturing and deployment. Methods for the establishment and infusion of robotics in educational curricula and research to gain a better understanding of the long term social, behavioral and economic implications of co-robots across all areas of human activity are important parts of this initiative. Collaboration between academic, industry, non-profit and other organizations is strongly encouraged to establish better linkages between fundamental science and technology development, deployment and use. Two classes of proposals will be considered in response to this solicitation: 1) Small projects of one or more investigators spanning 1 to 5 years; and 2) Large projects of Multi-disciplinary teams spanning 1 to 5 years.
Petrolgy and Geochemistry (CH)

National Science Foundation


Contact: Sonia Esperanca, 703/292-4735, sesperan@nsf.gov

Solicitation number: NSF 14-501

The Petrology and Geochemistry Program supports basic research on the formation of planet Earth, including its accretion, early differentiation, and subsequent petrologic and geochemical modification via igneous and metamorphic processes. Proposals in this program generally address the petrology and high-temperature geochemistry of igneous and metamorphic rocks (including mantle samples), mineral physics, economic geology, and volcanology. Proposals that are focused on the development of analytical tools, theoretical and computational models, and experimental techniques for applications by the igneous and metamorphic petrology, and high temperature geochemistry communities are also invited. The average estimated award budget is $270K.

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.

Division of Environmental Biology (CORE programs) (DEB)

National Science Foundation, Biological Sciences (BIO)


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

Solicitation number: NSF 14-503

This program supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles. About 200 awards will be made each year. The Division also welcomes proposals for Small Grants to the core programs via this solicitation. Projects intending total budgets of $150K or less should be identified as such with the designation "SG:" as a prefix to the project title. These awards are intended to support full-fledged research projects that simply require smaller budgets. Small Grant projects will be assessed based on the same merit review criteria as all other proposals.
Major Research Instrumentation Program FY2014 (MRI) - Limited Submission

National Science Foundation


Contact: Randy Phelps, 703/292-8040, mri@nsf.gov

Solicitation number: NSF13-517

The MRI program assists with the acquisition or development of a shared research instrument that is, in general, too costly and/or not appropriate for support through other NSF programs. Instruments are expected to be operational for regular research use by the end of the award period. For the purposes of the MRI program, a proposal must be for either acquisition (Track 1) or development (Track 2) of a single instrument or for equipment that, when combined, serves as an integrated research instrument (in contrast to requests for multiple instruments that enable research in a common or focused research domain, which MRI does not support). The MRI program does not support the acquisition or development of a suite of instruments to outfit research laboratories/facilities or that will be used to conduct independent research activities simultaneously.

Instrument acquisition or development proposals that request funds from NSF in the range of $100K to $4M may be accepted from any MRI-eligible organization. Proposals that request funds from NSF less than $100K may also be accepted from any MRI-eligible organization for the disciplines of mathematics or social, behavioral and economic sciences.

Cost-sharing of precisely 30% of the total project cost is required for Ph.D.-granting institutions of higher education and for non-degree-granting organizations. The Office of Research will coordinate cost-sharing requests for the selected campus proposals. Project groups should not seek cost-sharing at the pre-proposal stage.

Cognitive Neuroscience

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


Contact: Lynne Bernstein, 703/292-8643, lbernste@nsf.gov

Solicitation number: NSF 09-563

This program seeks highly innovative and interdisciplinary proposals aimed at advancing a rigorous understanding of how the human brain supports thought, perception, effect, action, social processes, and other aspect of cognition and behavior, including how such processes develop and change in the brain and through time. This program supports Individual Investigator Research Projects as well as Workshops.

Partnerships for Innovation: Building Innovation Capacity 2014 - Limited Submission

National Science Foundation


Contact: Sara Nerlove, 703/292-7077, snerlove@nsf.gov

Solicitation number: NSF 13-587

This program supports academe-industry partnerships, which are led by an interdisciplinary academic research team with a least one industry partner, to collaborate in building technological and human innovation capacity. Partnerships that build the capacity to innovate are expected to be effective at innovating and able to continue to innovate. These partnerships not only develop new technology but also foster the development of human capital that embraces a culture of change, nurtures the generation of new ideas, and considers feedback an integral part of the innovation processes. Collaborative research should focus on novel applications motivated by existing research discoveries and based on a platform technology with the potential to achieve transformational change in existing service systems or to spur entirely new service systems. Examples of technology applied to service systems include smart healthcare, smart cities, on-demand transportation, precision agriculture, smart infrastructure, and other technologies enabling self-service and customized service solutions. The maximum award is $800K over three years.
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.

Cyber-Physical Systems
National Science Foundation, Computer and Information Sciences and Engineering (CISE), Engineering (ENG)
Contact: Varies with research interest
Solicitation number: NSF 13-502
The goal of the CPS program is to develop the core system science needed to engineer complex cyber-physical systems upon which people can depend with high confidence. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. By abstracting from the particulars of specific systems and application domains, the CPS program aims to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. To expedite and accelerate the realization of cyber-physical systems in a wide range of applications, the CPS program also supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and test beds. Three types of research and education projects will be considered, which differ in scope and goals: 1) Breakthrough projects must offer a significant advance in fundamental CPS science, engineering and/or technology that has the potential to change the field. This category focuses on new approaches to bridge computing, communication, and control. Funding for Breakthrough projects may be requested for a total of up to $500K for a period of up to three years; 2) Synergy projects must demonstrate innovation at the intersection of multiple disciplines, to accomplish a clear goal that requires an integrated perspective spanning the disciplines. Funding for Synergy projects may be requested for a total of $500K to $1M for a period of three to four years; and 3) Frontiers projects must address clearly identified critical CPS challenges that cannot be achieved by a set of smaller projects. Funding may be requested for a total of $1M to $7M for a period of four to five years.

Long Term Research in Environmental Biology (LTREB)
National Science Foundation, Biological Sciences (BIO)
Contact: Saran Twombly, 703/292-8133, stwombly@nsf.gov
Solicitation number: NSF 14-507
This FOA encourages the submission of proposals that generate extended time series of biological and environmental data to address ecological and evolutionary processes and resolve important issues in organismal and environmental biology. Researchers must have collected at least six years of previous data to qualify for funding, and these data must motivate the proposed research. The proposal also must present a cohesive conceptual rationale or framework for ten years of research. Awards are not to exceed $90K per year (direct and indirect costs) and $450K over a five-year effort.
Science, Technology, and Society (STS)
National Science Foundation
Contact: Frederick Kronz, 703/292-7283, f kronz@nsf.gov
Solicitation number: NSF 12-509
The Science, Technology, and Society Program (STS) supports scientific research that examines relationships between science (including engineering), technology, and society. The program supports proposals on a broad range of topics related to science and society, and it especially welcomes proposals that focus on: 1) How ethical issues and values interconnect with science and technology, and how norms and values institutionalized in science and technology engage with society; and 2) How policy choices affect scientific and technological knowledge production and innovation, and on how scientific and technical knowledge and innovation affect policy decisions. Successful proposals are transferrable and articulate a detailed research plan. The average award size is anticipated to be $155K depending on availability of funds.

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.

Software Infrastructure for Sustained Innovation - SSE & SSI (SI2 - SSE&SSI)
National Science Foundation, Cross-Directorate
Contact: Varies with research interest
Solicitation number: NSF 13-525
NSF has established the Software Infrastructure for Sustained Innovation (SI2) program, with the overarching goal of transforming innovations in research and education into sustained software resources that are an integral part of the cyberinfrastructure. SI2 is a long-term investment focused on catalyzing new thinking, paradigms, and practices in developing and using software to understand natural, human, and engineered systems. SI2’s intent is to foster a pervasive cyberinfrastructure to help researchers address problems of unprecedented scale, complexity, resolution, and accuracy by integrating computation, data, networking, observations and experiments in novel ways. NSF expects that its SI2 investment will result in robust, reliable, usable and sustainable software infrastructure that is critical to achieving the CIF21 vision and will transform science and engineering while contributing to the education of next generation researchers and creators of future cyberinfrastructure. Education at all levels will play an important role in integrating such a dynamic cyberinfrastructure into the fabric of how science and engineering is performed. The SI2 program includes two classes of awards: 1) Scientific Software Elements (SSE): SSE awards target small groups that will create and deploy robust software elements for which there is a demonstrated need that will advance one or more significant areas of science and engineering; and 2) Scientific Software Integration (SSI): SSI awards target larger, interdisciplinary teams organized around the development and application of common software infrastructure aimed at solving common research problems. SSI awards will result in a sustainable community software framework serving a diverse community.
EHR Core Research (ECR)
National Science Foundation, Education and Human Resources (EHR)
Contact: 703/292-2333, ECR@nsf.gov
Solicitation number: NSF 13-555

This program establishes a mechanism to provide funding in foundational research areas that are broad, essential and enduring. EHR seeks proposals that will help synthesize, build and/or expand research foundations in the following core areas: STEM learning, STEM learning environments, workforce development, and broadening participation in STEM. EHR invites researchers to identify and conduct research on questions or issues in order to advance the improvement of STEM learning in general, or to address specific challenges of great importance. Two types of proposals are invited: Core Research Proposals (maximum 5 years, $1.5M) that propose to study a foundational research question/issue designed to inform the transformation of STEM learning and education; and Capacity Building Proposals (maximum 3 years, $300K) intended to support groundwork necessary for advancing research within the four core areas.

Improving Undergraduate STEM Education
National Science Foundation
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504976
Contact: Myles Boylan, 703/292-4617, mboylan@nsf.gov
Solicitation number: PD 14-7513

A well-prepared, innovative science, technology, engineering and mathematics (STEM) workforce is crucial to the Nation's health and economy. Indeed, recent policy actions and reports have drawn attention to the opportunities and challenges inherent in increasing the number of highly qualified STEM graduates, including STEM teachers. Priorities include educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate populace. Recognizing disciplinary differences and priorities, NSF’s investment in research and development in undergraduate STEM education encompasses a range of approaches. These approaches include: experiential learning, assessment/metrics of learning and practice, scholarships, foundational education research, professional development/institutional change, formal and informal learning environments, and undergraduate disciplinary research.

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

Asia Responsive Grants
Henry Luce Foundation
http://www.hluce.org/asiarespongrant.aspx
Contact: 212/489-7700, hlf1@hluce.org
Solicitation number:
These grants provide opportunities to improve understanding between the United States and the Asia-Pacific region. They typically support research, create new scholarly and public resources, or promote the exchange of ideas and information between Americans and Asians. These grants are limited to work in the humanities and social sciences concerned with Northeast and Southeast Asia, typically for longer-term programs or projects that respond to the needs and priorities of the Asian studies field and benefit a wide range of scholars and institutions. Requests for funding may be submitted at any time during the year, beginning with a brief letter of inquiry. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

PepsiCo Grants
Pfizer Inc.
http://www.pepsico.com/Purpose/PepsiCo-Contributions/Grants.html
Contact: 914/253-2000, pepsico.foundation@pepsi.com
Solicitation number:
PepsiCo is committed to advancing objectives related to education, health and wellness, diversity and inclusion, and thought leadership. In advancing these objectives, PepsiCo provides support to approved organizations on an equal-access basis. Applicants seeking a grant for less than $100K must first submit a brief Letter of Interest. Requests are evaluated on a rolling basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Mellon Foundation Grants
The Andrew W. Mellon Foundation
http://www.mellon.org/grant_programs/programs
Contact: Varies with research interest
Solicitation number:
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.
Ongoing

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

Ongoing

**Public Welfare Grants**
Public Welfare Foundation
http://www.publicwelfare.org/ApplyGrant/Guidelines.aspx
Contact: 202/965-1800, info@publicwelfare.org
Solicitation number:
The Foundation supports efforts to ensure fundamental rights and opportunities for people in need. The three program areas are: Criminal and Juvenile Justice, which seeks out grantees with strategies to lower rates of incarceration and decrease prison populations; Health Reform, which seeks to ensure that the voice of the consumer is heard on health reform; and Workers’ Rights, which supports organizations that are trying to improve the lives of working people. Though letters of inquiry may be submitted at any time, applicants should plan ahead. It takes up to one month after receiving a letter of inquiry to determine whether an invitation will be sent to submit a full proposal. Full proposals are reviewed in July, November, and March. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Ongoing

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

Ongoing

**FSSS Grants-in-Aid Program**
The Foundation for the Scientific Study of Sexuality (FSSS)
http://www.sexscience.org/honors/fsss_grants_in_aid_program/
Contact: aletk001@umn.edu
Solicitation number:
This program provides up to $1K per grant to support scientific sexuality research in areas not likely to receive support from other sources. The money may be used for either a small project that can be completed with the help of the grant or as part of a larger study that might ultimately be funded from other sources. The competition is open to all professionals conducting research on human sexuality. Proposals involving uniquely timely research opportunities, new investigators, volunteer research teams, and actual, not pilot, projects are especially encouraged. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
**Waitt Foundation Grants**

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

**Michelson Grants in Reproductive Biology**

Multiple multi-year grants are available for research in pursuit of non-surgical sterilization products or technologies for use on dogs and cats. Investigators are required to submit a brief letter of intent containing: a proposed approach for developing a single dose non-surgical sterilant; the rationale for proposing this approach; and an overview of required research. The Foundation recommends that work described in proposals not exceed three years' duration and $250K per year. If the letter of intent is approved, investigators will be invited to submit a full grant application. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

**Energy Foundation Grants**

The Energy Foundation 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 Grants**

Lannan Foundation is a family foundation dedicated to cultural freedom, diversity and creativity through projects which support exceptional contemporary artists and writers, as well as inspired Native activists in rural indigenous communities. The Foundation supports this mission by making grants to nonprofit organizations in the areas of contemporary visual art, literature, indigenous communities, and cultural freedom. Interested applicants are encouraged to contact a program director before submitting a letter of inquiry. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Mathers Grants
The G. Harold & Leila Y. Mathers Charitable Foundation
http://www.mathersfoundation.org/policies.html
Contact: 914/242-0465, admin@mathersfoundation.org
Solicitation number:
The Foundation is primarily interested in supporting fundamental basic research in the life sciences. Support is provided for specific projects from established researchers at top universities and independent research institutions within the United States. Formal requests will be either discouraged or invited based on specific detailed queries sent by mail, and are processed when received. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Conservation Trust Grant
National Geographic Society
Contact: conservationtrust@ngs.org
Solicitation number:
The objective of the Conservation Trust is to support conservation activities around the world as they fit within the mission of the National Geographic Society. The trust will fund projects that contribute significantly to the preservation and sustainable use of the Earth’s biological, cultural, and historical resources. Applicants are not expected to have PhDs or other advanced degrees. However, applicants must provide a record of prior research or conservation action as it pertains to the proposed project. While grant amounts vary greatly, most range from $15K to $20K. Pre-applications are accepted throughout the year. Applications are submitted by invitation only. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

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

Pollock-Krasner Grants
The Pollock-Krasner Foundation, Inc.
http://www.pkf.org/grant.html
Contact: 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.
Funding for Readings and Workshops
Poets & 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
http://www.mott.org/grantseeker.aspx
Contact:
Solicitation number:
The Charles Stewart Mott Foundation supports efforts in civil society, the environment, and pathways out of poverty. The median grant size is in the $100K range. The majority of grants are between $15K and $250K annually. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
European Union 7th Framework Program for Research

The European Commission supports a 7 billion euro research and development fund aimed at tackling the biggest societal challenges facing Europe and the world. Universities, research organizations, and industry will be among more than 16,000 funding recipients with special attention given to small and medium sized enterprises.

The Cooperation program supports all types of research and innovation activities carried out by different research bodies in transnational cooperation addressing the following themes: Health; Food, Agriculture and Fisheries, and Biotechnology; Information and Communication Technologies; Nanosciences, Nanotechnologies, Materials and new Production Technologies; Energy; Environment (including Climate Change); Transport (including Aeronautics); Socioeconomic Sciences and the Humanities; Space; and Security.

The Ideas program, implemented through the European Research Council (ERC), will boost Europe's competitiveness by helping to attract and retain the most talented scientists, supporting risk-taking and high-impact research, and promoting world-class scientific research in new, fast emerging fields. Researchers may be from any country but must conduct research in the EU.

The People program offers individuals the opportunity to follow a career in research by facilitating outgoing and incoming fellowships between the EU and other countries and other training opportunities.

The Capacities program aims to optimize the use and development of research infrastructures through seven areas of funding: Research infrastructures; Research for the benefit of SMEs; Regions of knowledge and support for regional research-driven clusters; Research potential of Convergence Regions; Science in society; Support to the coherent development of research policies; and International co-operation.

Deadlines vary according to the funding program, starting from October 2011 through March 2012. (Note: due to the complexities of the European Union's grant terms and conditions, please contact your Sponsored Projects Officer well in advance of the deadline)

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

http://www.snf.ch/E/international/worldwide/international-short-visits/Pages/default.aspx

Contact: international@snf.ch

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.
**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.

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**Changes in Health Care Financing and Organization (HCFO)**

Robert Wood Johnson Foundation


Contact: 202/292-6700, hcfo@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.

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**Brain and Behavior Research Grants**

Brain & Behavior Research Foundation


Contact: grants@bbrfoundation.org

Solicitation number:

These grants are awarded to basic and/or clinical investigators. The NARSAD Young Investigator Grant supports scientists at the advanced post-doctoral or assistant professor (or equivalent) level. Grants are up to $60K over a two-year period, or $30K per year. The NARSAD Independent Investigator Grant supports scientists at the associate professor (or equivalent) level. Grants are up to $100K over a two-year period, or $50K per year. The NARSAD Distinguished Investigator Grant supports scientists at the full professor (or equivalent) level. Grants are up to $100K for one year. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
CASIS Unsolicited Proposals
Center for the Advancement of Science in Space
http://www.iss-casis.org/Opportunities/UnsolicitedProposals.aspx

Contact: ideas@iss-casis.org

Solicitation number:

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

Thriving Cultures Program
Surdna Foundation
http://www.surdna.org/what-we-fund/thriving-cultures.html

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

Solicitation number:

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

Environmental Management Participation Program for the U.S. Army Environmental Command (USAEC)
Oak Ridge Institute for Science and Education (ORISE)
http://see.orau.org/ProgramDescription.aspx?Program=10056

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

Solicitation number:

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

Council for International Exchange of Scholars

[http://www.cies.org/specialists/](http://www.cies.org/specialists/)

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

Solicitation number:

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

**Anthropological Historical Archives Program**

Wenner-Gren Foundation for Anthropological Research, Inc.


Contact: 212/683-5000, inquiries@wennergren.org

Solicitation number:

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.

**Humanities Research Projects**

Gerda Hengel Foundation


Contact:

Solicitation number:

The grants for research projects involve, depending on the type of project, the assumption of costs for personnel, travel, materials and/or other costs. The applicants must be actively involved in the research work of the project. It is possible to apply for financing for your own post at a research establishment. The precondition: you have successfully completed your Ph.D. and afterwards have at least five years professional experience working in an academic field. Project participants can also be financed in the form of a research scholarship. As part of a research project, the costs incurred of visiting (foreign) scholars can also be financed. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
International Collaborative Research Grants

The Wenner-Gren Foundation

http://www.wennergren.org/programs/international-collaborative-research-grants

Contact: internationalprograms@wennergren.org

Solicitation number:

The International Collaborative Research Grant (ICRG) supports international research collaborations in anthropology between two or more qualified scholars, where the principal investigators bring different and complementary perspectives, knowledge, and/or skills to the project. The grants are for a maximum of $30K for the research project. 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.

Collaborative Research Travel Grants

Buroughs Wellcome Fund

http://www.bwfund.org/pages/481/Collaborative-Research-Travel-Grants/

Contact: 919/991-5100

Solicitation number:

This program provides up to $15K in support for researchers from degree-granting institutions to travel either domestically or internationally to a laboratory to acquire a new research technique, to facilitate a collaboration, or to attend a laboratory/lecture course. Applicants must hold a PhD or be currently studying in a PhD program in mathematics, physics, chemistry, computer science, statistics, or engineering interested in investigating research opportunities in the biological sciences. 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.

Anthropology Conference and Workshop Grants

Wenner-Gren Foundation for Anthropological Research, Inc.

http://www.wennergren.org/programs/conference-and-workshop-grants

Contact: 212/683-5000, inquiries@wennergren.org

Solicitation number:

Conference and Workshop Grants are for amounts up to $20K. In accordance with the mission of the Foundation, priority is given to events that foster the creation of an international community of research scholars in anthropology and advance significant and innovative anthropological research. Conferences are defined as public events that are comprised primarily of oral and poster presentations to a larger audience of anthropologists. Workshops are defined as working meetings that focus on developing and debating topical issues in theoretical anthropology. 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 for use in calendar year 2013. 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.


**Technological Innovations in Neuroscience Awards**

The McKnight Endowment Fund for Neuroscience

http://www.neuroscience.mcknight.org/the-awards/technology

Contact: 612/333-4220, emaler@mcknight.org

Solicitation number:

This FOA supports innovative research designed to bring science closer to the day when diseases of the brain can be accurately diagnosed, prevented, and treated. The program seeks to advance and enlarge the range of technologies available to the neurosciences. It does not support research based primarily on existing techniques. The Endowment Fund is especially interested in how technology may be used or adapted to monitor, manipulate, analyze, or model brain function at any level, from the molecular to the entire organism. Collaborative and cross-disciplinary applications are invited. Awards are made for $100K per year for two years.

12/3/2013 Full Proposal (by invitation only)

**Major Grants**

Spencer Foundation

http://www.spencer.org/content.cfm/budgets-over-50000

Contact: Annie Brinkman, 312/274-6511, abrinkman@spencer.org

Solicitation number:

The Foundation is committed to supporting high-quality investigation of education. The Foundation makes grants in four specific areas of inquiry: Education and Social Opportunity; Organizational Learning; Teaching, Learning, and Instructional Resources; and Purposes and Values of Education. In addition to these defined areas, the Foundation will continue to accept Field-Initiated Proposals. Major Grants have a budget of over $50K. 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.

12/3/2013 Full Proposal (by invitation only)

**Center for Global Partnership Grants**

The Japan Foundation

http://www.cgp.org/intellectual-exchange/regular-grants

Contact: Carolyn Fleisher

Solicitation number:

The Japan Foundation Center for Global Partnership (CGP) is dedicated to strengthening the global U.S.-Japan partnership and cultivating the next generation of public intellectuals necessary to sustain this partnership. As globalization proceeds at an unprecedented rate, to develop comprehensive solutions to resolve complex contemporary issues, it is increasingly necessary not only to incorporate a broader spectrum of scholarship, expertise, and societal actors into the dialogue but also necessary to carry out sustained exchange and dialogue amongst these diverse individuals. Bearing this in mind, the CGP Grant Program supports U.S.-Japan collaborative projects conducted by universities, think-tanks, and other non-profit organizations which incorporate one or both of the following formats: 1) fostering dialogue among diverse stakeholders to formulate solutions for a more peaceful, stable, and equitable global order; and 2) promoting partnerships amongst a broad variety of societal actors, both domestic and international, with the aim to overcome the challenges of globalization for communities world wide. The funding maximum is $100K per year for up 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.
Brady Education Foundation Grants
Brady Education Foundation
http://www.bradyeducationfoundation.org/applicationguidelines.html
Contact: info@bradyeducationfoundation.org
Solicitation number:
The Foundation funds two types of education projects: 1) evaluations of existing model programs and 2) innovative research on model development, including both efficacy and effectiveness studies. The Foundation favors projects that bring researchers and service providers together to prove and improve the effectiveness of early care and education environments for at-risk children, projects that leverage other funds, projects with the potential to inform or guide policy or funding decisions, and projects that structure time for researchers/evaluators and program providers to collaborate. There is a two-stage application process, and the stage 2 application is 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.

Defending Basic Freedoms Grant Program
The Herb Block Foundation
http://www.herbblockfoundation.org/programs/defending-freedoms
Contact:
Solicitation number:
This program helps safeguard the basic freedoms guaranteed in our Bill of Rights, to help eliminate all forms of prejudice and discrimination, and to assist government agencies to be more accountable to the public. The Herb Block Foundation will also consider contemporary societal issues that may arise. 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.

2014 McKnight Scholar Awards
The McKnight Endowment Fund for Neuroscience
http://www.neuroscience.mcknight.org/newsroom/upcoming-deadlines/2013-mcknight-scholar-awards
Contact: 612/333-4220, emaler@mcknight.org
Solicitation number:
This FOA invites applications from exceptional young scientists who are inent on engaging in innovative research designed to bring science closer to the day when diseases of the brain can be accurately diagnosed, prevented, and treated. These awards were established to encourage emerging neuroscientists to focus on disorders of learning and memory. Applicants for the McKnight Scholar Awards must demonstrate interest in solving important problems in relevant areas of neuroscience, including the translation of basic research to clinical neuroscience. Each McKnight Scholar will receive $75K annually in 2014, 2015, and 2016. 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.
Youth Social Setting Research Projects

The Foundation defines settings as the social environments in which youth experience daily life. These settings include environments with clear boundaries such as classrooms, schools, and youth-serving organizations as well as environments with less concrete boundaries such as neighborhoods or other settings in which youth interact with peers, family members, and other significant adults. At their best, these settings embed youth within a network of engaging activities; ample resources; meaningful relationships with adults and peers; and opportunities for academic, social, emotional, and identity development. Applicants should include a strong theoretical foundation and a clear conceptual frame that leads to the research questions and data collection plan. The study’s measurement plans should include rigorous methods for assessing key aspects of settings; the strongest plans incorporate setting data from multiple sources. Applicants should also explicitly state how the measures will provide strong data on key constructs. Research grants typically range between $100K and $600K and cover two to three years of support. 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.

Kress Foundation Grant Programs

Through its Grant Programs, the Kress Foundation supports scholarly projects that promote the appreciation, interpretation, preservation, study and teaching of European art from antiquity to the early 19th century. The History of Art Program supports scholarly projects that will enhance the appreciation and understanding of European art and architecture. The Conservation Program supports the professional practice of art conservation. The Digital Resources Program supports the creation of important online resources in art history, including both textual and visual resources. 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.

Pardee Foundation Grants

The Foundation funds research directed toward identifying new treatments or cures for cancer. The Foundation particularly encourages grant applications for a one-year period which will allow establishment of capabilities of new cancer researchers, or new cancer approaches by established cancer researchers. Project relevance to cancer detection, treatment, or cure should be clearly identified. 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 Associateship Programs
National Academy of Sciences
http://sites.nationalacademies.org/PGA/RAP/PGA_050491
Contact: 202/334-2760, rap@nas.edu
Solicitation number:
The National Research Council provides Research Associateships at participating federal laboratories and research organizations to outstanding scientists and engineers at the postdoctoral and senior level. Applicants select an appropriate laboratory and submit a research plan that relates to the specific opportunity at the sponsoring lab. Selected associates receive a stipend and usually spend a year as a guest investigator. Note that not all sponsors participate in all four review deadlines. Applicants should refer to the specific information for the laboratory to which they are applying. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Whitehall Foundation Grants
Whitehall Foundation
http://www.whitehall.org/grants/
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.

UC and State of California
Ongoing
California Wellness Grants
California Wellness Foundation
http://www.calwellness.org/how_to_apply/
Contact: 818/702-1900
Solicitation number:
The Foundation supports organizations working to improve the health of underserved communities in California. The following health issues are prioritized: Diversity in the Health Professions; Environmental Health; Healthy Aging; Mental Health; Teenage Pregnancy Prevention; Violence Prevention; Women’s Health; and Work and Health. While project funding requests are accepted, requests for core operating support are particularly encouraged. An organization must first write a one- or two-page letter of interest.

12/2/2013 Full Application
Santa Barbara Cottage Hospital Research Grants
Santa Barbara Cottage Hospital
http://www.cottagehealthsystem.org/LinkClick.aspx?link=1026&tabid=185
Contact: Betsy Lazarine, 805/569-7436, blazarin@sbch.org
Solicitation number:
This program has been established to encourage medical research by health professionals affiliated with Cottage Health System. The program can provide funding of up to $15K for innovative new ideas and small research projects. Scientists not affiliated with Cottage are eligible if there is a co-investigator who is a health professional affiliated with Cottage Health System.
**Santa Barbara Cottage Hospital Research Grants 2013**

Santa Barbara Cottage Hospital


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

Solicitation number:

This program has been established to encourage medical research by health professionals affiliated with Cottage Health System. The program can provide funding of up to $15K for innovative new ideas and small research projects. Scientists not affiliated with Cottage are eligible if there is a co-investigator who is a health professional affiliated with Cottage Health System. Applications for studies which will include active involvement by residents or trainees are especially encouraged.

**IES Exchange Grants & Fellowships in Austria & Viadrina, Germany**

University of California

http://ies.berkeley.edu/grants/berk-austria.html

Contact: 510/643-5777, ies@berkeley.edu

Solicitation number:

This competition is for a short term faculty research grant as well as a short term predissertation research grant. The work of applicants should focus on political economy. Although all applications will be considered, projects with practical importance for economic, political and social issues relevant to Austria and California and more broadly to Europe and the United States are particularly encouraged. The faculty Research Grant award will amount to $5K for visits of up to one month and the short-term predissertation and Dissertation Research Grant for graduate students will amount to $3-5K for visits of one to three months.