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

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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: Opportunity for Support of Innovative Managing Director Models in I/UCRC Organizations

The National Science Foundation (NSF) invites supplemental funding requests from NSF Industry/University Cooperative Research Centers (I/UCRC). Cultivation and maintenance of trusted industry relationships as well as professional project management of the center’s portfolio of activities are essential to I/UCRC member recruitment and retention and the growth of a strong and vibrant I/UCRC ecosystem. In recognition of the importance of these functions to center success, this opportunity provides support to assist centers in either creating and filling a new position of Innovative Managing Director or supporting an existing position in their leadership team with this function. However, centers that have received prior NSF supplemental funding to support the Innovative Managing Director position are not eligible to apply. Up to $200K per year for a period of up to three years may be requested by the center’s lead site.

Dear Colleague Letter: Cancellation of FY 2015 FESD Competition

Due to the uncertainty of future funding levels, GEO has revisited its budgetary plans. As a result, GEO will not be holding the third round of competition for the FESD program in FY 2015 as originally planned and at this time, GEO does not expect to hold any future FESD competitions. GEO regrets that this decision impacts many in our community who have invested time and other resources in building teams and projects for submission to the expected solicitation.

Dear Colleague Letter: DMREF proposals of special interest to the Division of Mathematical Sciences in fiscal year 2014

The Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF) strongly encourages mathematicians and statisticians to participate in the 2014 NSF activity Designing Materials to Revolutionize and Engineer our Future (DMREF). DMREF is the main program by which NSF participates in the Materials Genome Initiative for Global Competitiveness (MGI), a national materials initiative. DMREF comprises well-coordinated activities involving the Directorates of Mathematical and Physical Sciences (MPS), Engineering (ENG), and Computer & Information Science & Engineering (CISE). For further details and participating divisions please see NSF 14-020, the broadly aimed Dear Colleague Letter about DMREF in fiscal year 2014. As described in that Letter, success in the initiative requires a collaborative, synergistic, iterative approach that shows interactions among theory, computation, and experiments. This approach is the central principle of MGI. DMREF proposals will be reviewed jointly by the appropriate participating divisions. Adherence to the aims and principles of MGI will facilitate this joint review.

DMREF proposals of specific interest to the Division of Mathematical Sciences must:
- seek new mathematical or statistical results that will advance the DMREF agenda;
- describe a research plan that meets the central Materials Genome Initiative prin-
principle of closely coupled, iterative interplay among theory, computation, and experiment;
• be submitted within the window 15 January - 18 February 2014, inclusive;
• be submitted to the Design of Engineering Materials Systems (DEMS/PD 12-8086) program; and
• deal with problems in the range of issues described in the DMREF Dear Colleague letter NSF 14-020.

Dear Colleague Letter: Research on Privacy in Today’s Networked World
The directorates for Social, Behavioral, and Economic Sciences (SBE) and Computer and Information Science and Engineering (CISE) invite investigators to submit proposals that address the need to develop new and deeper understandings of privacy in today’s networked world. Our interest spans both disciplinary and interdisciplinary research in an array of SBE sciences. Proposals for workshops to explore novel and interdisciplinary SBE and SBE/CISE approaches to privacy are also welcome. Successful proposals will be based on a theoretically driven research design incorporating appropriate methods to: (1) address foundational SBE research questions or issues related to privacy, or specific challenges therein; (2) implement the collection and analysis of data; (3) make clear contributions to synthesizing, expanding, or building the base of research knowledge and evidence related to privacy; and (4) facilitate the development of rigorous SBE science research and theory in the field of privacy.

Dear Colleague Letter: MPS/AST Portfolio Divestment Options
The National Science Foundation (NSF) has embarked on an exciting program in astronomy that involves construction of several new state-of-the-art telescopes, in order to enable progress on key scientific questions in astronomy. In a constrained budget environment, building and operating these new facilities requires that difficult priority choices be made. Therefore, in 2011/2012, the NSF Directorate for Mathematical and Physical Sciences (MPS) conducted a community-based Portfolio Review of the program of its Division of Astronomical Sciences (MPS/AST). The Portfolio Review Committee report recommended significant adjustments to the MPS/AST research portfolio, including divestment of some major telescope facilities, in order to maintain the most compelling scientific program. In its written response to that report, MPS/AST noted that it would make decisions about divestments near the end of 2013.

This letter provides information to the scientific community about the status of the response to the Portfolio Review Committee’s divestment recommendations. For some telescopes, studies of alternatives will be carried out in 2014, while the assessment of options for other telescopes will be deferred until alternatives can be defined more crisply; this letter presents the details and rationale on a telescope-by-telescope basis.

Dear Colleague Letter: Clarification of the proposal submission process for the Cascadia Initiative
The Cascadia Initiative (CI) is a project to build an onshore/offshore network of seismic and geodetic stations from Cape Mendocino in California to Cape Flattery in Washington. The network is targeted at understanding the structure and processes of this subduction margin, which has a history of large earthquakes every 300-500 years. The Cascadia Initiative is a community experiment: the data will be made freely available as quickly as possible. This Dear Colleague Letter is meant to update the community about where to submit various types of CI proposals and on what time
scale.

• CI proposals primarily involving land studies: EarthScope. Such proposals should be submitted to the EarthScope program. EarthScope contacts are Greg Anderson (greander@nsf.gov) and Maggie Benoit (mbenoit@nsf.gov) The EarthScope deadline is 23 August each year.

• CI proposals primarily involving ocean studies: Marine Geology and Geophysics (MGG). Such proposals should be submitted to the MGG Program in OCE. The MGG contact is Donna Blackman (dblackma@nsf.gov). The MGG deadline is 15 February or 15 August each year.

• The GeoPRISMS program has adopted a phased support approach for work at Primary Sites and the window for Cascadia emphasis has passed. Therefore, MGG and EarthScope will generally be the most appropriate programs for CI proposals. Outcomes relevant to the GeoPRISMS program can be detailed in the context of a project’s Broader Impacts.

CAMPUS HONORS AND AWARDS

Fellow of the National Academy of Inventors

Two professors have been elected Fellow of the National Academy of Inventors, for their highly prolific spirit of innovation:

• Steven DenBaars, professor of materials and electrical & computer engineering, and co-director of the Solid State Lighting & Energy Center.

• Samir Mitragotri, professor of chemical engineering and the biomolecular science and engineering program.

2014 Prager Medal

• Robert McMeeking, professor of materials and mechanical engineering, received the 2014 Prager Medal from the Society of Engineering Science (SES), awarded for outstanding research contributions in theoretical and/or experimental solid mechanics.

SPONSORED PROJECTS TRAINING FOR ADMINISTRATORS IN RESEARCH (STAR)

The Sponsored Projects Training for Administrators in Research (STAR) program is a comprehensive certificated training program developed by the UCSB Office of Research to meet UCSB’s research administration needs. The program’s goals are to improve campus understanding of regulations, policies, and procedures; to strengthen internal controls; and to provide staff members with access to key resources and contacts when they need help. The program is designed for employees with duties and responsibilities related to contract and grant administration. Participants are welcome to take one or several courses in areas of particular interest to them—or they may opt to earn a certificate in the STAR program.

The certificate program offers 11 required courses. Staff members who wish to earn a STAR Program Certificate must complete the coursework in one or two years from the date they begin the course series. For more information, a complete list of courses and to enroll, visit our Web site at http://www.research.ucsb.edu/spo/contracts-and-grants-liaison-resources/star-class-schedule/. Sitting is limited so register now. Should you have any further questions, please send an e-mail to training@research.ucsb.edu

Negotiation and Acceptance of Awards and Gifts (3 hours)

This course focuses on the various actions and issues that arise during the period between the submission of a proposal and the award of a contract or grant, and covers
the roles of the key players of the University and the Sponsors, denial and withdrawal of proposals, pre-award costs, revised budgets, requests for approvals to spend (RAS), content of award terms, campus award processing, and an overview of the UCSB award synopsis. Identifying the differences between gifts and grants will also be discussed.

Offered: Thursday, January 16, 2014; 9:00am-12noon
Instructors: Cara Egan-Williams, Hilda Vasquez, Jamie Sprague & Polly Bustillos
Location: Marine Science Building Auditorium (MSB 1302)

Post-Award Administration (2 hours)
This course addresses several aspects of post-award administration and will include presentations from selected campus representatives. Topics are award set-up, department responsibilities, obtaining campus approvals for post-award actions, travel, equipment management, reporting requirements, and closeout.

Offered: Thursday, February 13, 2014; 9:00am-11:00am
Instructors: Vaughn Boyle, Alycia Lewis & Nan Capelle
Location: Marine Science Building Auditorium (MSB 1302)

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:
• Dana Foundation David Mahoney Neuroimaging Program—Campus Notice of Intent 01/16/2014; Agency deadline 02/25/2014
• NEA Art Works FY2015—Campus Notice of Intent 01/21/2014; 1st Agency deadline 02/20/2014; Challenge America Fast-Track 05/08/2014; 2nd Agency deadline 07/24/2014

Programs with open campus spots (please contact funding@research.ucsb.edu if you are interested in submitting to one of these programs):
• NIH Mid-Scale Innovations Program in Astronomical Sciences (MSIP)—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.


Berkman, P.A. (Donald Bren School of Environmental Science & Management), Young, O.R. (Donald Bren School of Environmental Science & Management), Marine Science Institute (NCEAS), $1,714,176, National Science Foundation, “Holistic Integration for Arctic Coastal-Marine Sustainability (HIACMS).”

Brooks, J.D. (Linguistics), Mithun, M. (Linguistics), Interdisciplinary Humanities Center, $14,671, Arcadia Fund, “Documentation, description, and analysis of the Andamang dialect of Chini.”

Chmelka, B.F., Chemical Engineering, $100,000, Chevron Corporation, “Molecular compositions and structures of heteroatom sites and dispersed Pt species in heterogeneous catalysts from solid-state 2D and 195Pt NMR.”

Doherty, M.F., Chemical Engineering, $50,000, Bristol-Myers Squibb Company, “Advanced Design and Development of Industrial Crystallization Technology (ADDICT): A Software Design Aid for API Crystallization.”

Doherty, M.F., Chemical Engineering, $100,000, Pfizer Inc., “Advanced Design and Development of Industrial Crystallization Technology (ADDICT): A Software Design Aid for Crystallization.”


Husak, G.J., Geography, $25,267, University Of Utah, “Examining the links between agriculture and human health in a context of climate change: A case study of three West African countries - Niger, Burkina Faso and Mali.”


Kosik, K.S. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, $212,616, Cal H&W Public Health, Department of (CDPH), “Detection of Genetic Factors which Modify the Age of Onset of Alzheimer’s Disease.”


Mishra, U.K., Electrical & Computer Engineering, $698,730, Office Of Naval Research (ONR), “Development of device designs for high power mm-wave HEMTs based on N-polar (Al,Ga,In)N.”

Nicholson, C.C., Marine Science Institute, $49,996, USDI Geological Survey, “Continuing to Map the 3D Geometry of Active Faults in Southern California.”

Polchinski, J.G., Gross, D.J., Physics, $1,320,000, National Science Foundation, “Problems in Theoretical Physics.”

Raven, M., Neuroscience Research Institute, $3,200, Olympus Corporation of America, “Advanced Microscopy and Digital Imaging Workshop 2014.”

Read de Alaniz, J. (Chemistry & Biochemistry), Materials Research Laboratory, $101,617, DOW Chemical Company, “Project 5: Polymeric Hydroxamic Acid Materials as Tunable Chelants.”

Voorhies, B. (Anthropology), Institute for Social, Behavioral, & Economic Research, $1,500, UC MEXUS, “Initial Planning Project for a Detailed Study of Prehistoric Subsistence and Transition to Agriculture on the Chiapas Coastal Plain, Mexico.”

Zakarian, A., Chemistry & Biochemistry, $1,710,799, National Institutes of Health, “Total Synthesis of Bioactive Marine Natural Products.”
Program Announcements
January 2014

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)

2/4/2014 Abbreviated Proposal (required)
5/6/2014 Full Proposal

Precision Measurement Grant Program (PMGP)
Department of Commerce

Contact: Peter Mohr, 301/975-3217, mohr@nist.gov
Solicitation number: 2014-NIST-PMGP-01
Since 1970, NIST, as part of its research program, has provided funding under the Precision Measurement Grant Program (PMGP) primarily to universities and colleges so that faculty may conduct significant research in the field of fundamental measurement or the determination of fundamental constants. NIST sponsors these research projects primarily to encourage basic, measurement-related research in universities and colleges and other research laboratories and to foster contacts between NIST scientists and those faculty members of academic institutions and other researchers who are actively engaged in such work. The PMGP also is intended to make it possible for researchers to pursue new ideas for which other sources of support may be difficult to find. There is some latitude in research topics that will be considered under the PMGP. The key requirement is that the proposed project is consistent with NIST's ongoing work in the field of basic measurement science. NIST anticipates up to approximately $100K may be available to fund the first year of new multi-year awards, supporting at most two projects, depending on the availability of funding, for up to three years at $50K per year.

2/21/2014 Full Proposal

FY2014 Marine Sensor and Other Advanced Observing Technologies Transition Project
Department of Commerce, National Oceanic and Atmospheric Administration (NOAA)

http://www.grants.gov/web/grants/view-opportunity.html?oppId=240175
Contact: Becky Baltes, 301/427-2427, becky.baltes@noaa.gov
Solicitation number: NOAA-NOS-IOOS-2014-2003854
This FOA seeks to fund projects which advance new or existing marine sensors and other observing technologies that address long standing and emerging coastal observing challenges. The projects will be focused on those sensors and other observing technologies for which there are demonstrated operational end-users who commit to integrated, long term use of those technologies and open data sharing. Funding will be targeted to marine sensors and other observing technologies that are beyond their research phase, with specific emphasis on transition and life cycle costs, including data management, overall operations, and maintenance expenses. The Programs are seeking Letters of Intent from prospective investigators relating how their project ideas align with either of two topic areas: 1) a very broad topic of marine sensor transitions, and 2) a narrower topic of ocean acidification observing technologies to better serve the ocean observing needs for impacted or potentially vulnerable industries or stakeholders (e.g., fisheries, coral reef conservation, state agencies, others). Multiple awards are anticipated in amounts ranging from approximately $250K to $1M per year for up to three years, with some exceptions for highly ranked proposals.
2/23/2014  Full Proposal

2014 Marine Education and Training Mini Grant Program
Department of Commerce
http://www.grants.gov/web/grants/view-opportunity.html?oppId=248493

Contact:  Kara Miller, 808/944-2147, Kara.Miller@noaa.gov
Solicitation number:  NOAA-NMFS-PIRO-2014-2003960

The National Marine Fisheries Service (NOAA/NMFS) is soliciting competitive applications for the 2014 Pacific Islands Region
Marine Education and Training Mini-Grant Program. Projects are being solicited to improve communication, education, and
training on marine resource issues throughout the region and increase scientific education for marine-related professions among
coastal community residents, including indigenous Pacific islanders, Native Hawaiians and other underrepresented groups in the
region. Total funding available under this notice is anticipated to be approximately $200K. Approximately 15 awards are
anticipated to be granted for FY 2014 under this competition. Actual funding availability for this program is contingent upon FY
2014 Federal appropriations. Proposals in excess of $15K are unlikely to be funded.

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.

Ongoing

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

Ongoing

U.S. Army Engineer Research and Development Center BAA 2013
U.S. Army Corps of Engineers
http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=213834

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 Basic Research

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.

Contact: Varies with research interest

Solicitation number: W911NF-13-R-0001

2/3/2014 White Paper (encouraged)

4/3/2014 Full Proposal

Folded Non-Natural Polymers with Biological Function (Fold F(x))

Defense Advanced Research Projects Agency (DARPA)

https://www.fbo.gov/index?s=opportunity&mode=form&id=a21445c20e3a9d9878a0a80a1fa6435e&tab=core&_cview=0

Contact: Tyler McQuade,, DARPA-BAA-14-13@darpa.mil

Solicitation number: DARPA-BAA-14-13

The DARPA Fold F(x) program objective is to develop processes enabling the rapid synthesis, screening, sequencing and scale-up of folded, non-natural, sequence-defined polymers with expanded functionality. The program will specifically address the development of non-natural affinity reagents that can bind and respond to a selected target, as well as catalytic systems that can either synthesize or degrade a desired target. DARPA anticipates that successful efforts will include (1) novel synthetic approaches that yield large libraries (>109 members) of non-natural sequence-defined polymers; (2) flexible screening strategies that enable the selection of high affinity/specificity binders and high activity/selectivity catalysts from the non-natural libraries; (3) demonstration that the screening approach can rapidly (<4 days) yield affinity reagents or catalysts against targets of interest to the DoD; and (4) demonstration of scalability and transferability to the DoD scientific community.

Contact: Tyler McQuade,, DARPA-BAA-14-13@darpa.mil

Solicitation number: DARPA-BAA-14-13

2/6/2014 Application (invite only)

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.
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.

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.

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.
Minerva Research Initiative
Office of Naval Research (ONR)

http://www.onr.navy.mil/~/media/Files/Funding-Announcements/BAA/2013/13-024.ashx

Contact: Harold Hawkins, Harold.Hawkins@navy.mil
Solicitation number: ONRBA13-024

This FOA seeks to increase the Department’s intellectual capital in the social sciences and improve its ability to address future challenges and build bridges between the department and the social science community. The Minerva Research Initiative competition is for research related to four topics, including 12 sub-topics: 1) Belief Formation and Movements for Change; 2) Models of Societal Resilience and Change; 3) Theories of Power and Escalation; and 4) Emerging Topics in Conflict and Security. The estimated range of an individual award is $200K to $1.5M per year over an anticipated three to five year project period of performance.

Defense Sciences Research and Technology
Defense Advanced Research Projects Agency (DARPA), Defense Sciences Office

https://www.fbo.gov/index?s=opportunity&mode=form&id=41e0808f4554dd7ff9cd3f6409aa5e56&tab=core&_cview=0

Contact: DARPA-BAA-13-20@darpa.mil
Solicitation number: DARPA-BAA-13-20

DARPA is soliciting innovative research proposals of interest to defense and national security. Specifically excluded is research that results primarily in evolutionary improvements to the existing state of the art. The Defense Sciences Office (DSO) seeks unconventional approaches that are outside the mainstream, undertaking directions that challenge assumptions and have the potential to radically change established practice. Areas of interest include, but are not limited to: Biomedical research, Rapid response protective or therapeutic treatments for biological and chemical threats, Preventing and countering effects of nuclear and radiological weapons, WMD remediation and neutralization techniques, Neurotechnology and neuroscience research, tools and applications, Modeling of biological systems; biomimetic and bio-inspired technologies, New ways to assess, optimize, and restore human performance, Bioelectronic and biophotonic interfaces, New methods for direct manipulation and control of biomaterials, Combat casualty care techniques, Advanced training technologies, Materials science research, Quantum science and technologies, Power and energy research, Applied mathematics, Advanced technologies for manufacturing, Radically new ways of conducting scientific research, and Robotic and autonomous technologies.

Department of Energy (DOE)

Ongoing

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.
The Climate and Earth System Modeling programs seek to develop and analyze high fidelity community models representing Earth and climate system variability and change, with a significant focus on the response of systems to natural and anthropogenic forcing. As the first of two programs in Climate and Earth System Modeling that participate in this FOA, the Earth System Modeling (ESM) Program seeks to advance computational, dynamical, and biogeophysical representations of the Earth system and its components, and to calibrate, test and assess predictive capabilities using uncertainty quantification methodologies. The second program participating in this FOA, the Regional and Global Climate Modeling (RGCM) Program, seeks to enhance the predictive understanding of the Earth system by analyzing the natural and anthropogenic components of global and regional Earth system models. The use of model simulations in combination with observations enables a deeper understanding of climate variability and change. The ESM and RGCM programs are thus complementary, with ESM focused mainly on climate model development, and RGCM focused mainly on climate system analysis. Both modeling programs collaborate and coordinate with the Terrestrial Ecosystem Science (TES) and Atmospheric System Research (ASR) programs, by utilizing TES and ASR process research activities to inform model development, and by using model simulations to identify where further process research is required in atmospheric and terrestrial systems. The maximum amount of funding will be $500K per year over project periods of two to three years.

**Environmental Protection Agency (EPA)**

**Indoor Air and Climate Change**

Environmental Protection Agency

[Link](http://www.epa.gov/ncer/rfa/2014/2014_star_indoor_air.html)

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.

**Systems-Based Research for Evaluating Ecological Impacts of Manufactured Chemicals**

Environmental Protection Agency


Contact: Jayne Michaud, 703/305-1968, michaud.jayne@epa.gov

Solicitation number: EPA-G2014-STAR-E1

The EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem wellbeing associated with the use of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations. Funding will be made up to a total of $800K for regular awards and up to a total of $400K for early career awards, including direct and indirect costs, with a maximum duration of three years.
Particulate Matter and Related Pollutants in a Changing World

Environmental Protection Agency


Contact: John Dawson, 703/347-8109, dawson.john@epa.gov

Solicitation number: EPA-G2014-STAR-G1

The EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research on understanding particulate matter and related atmospheric pollutants in a changing world. Specifically, research is sought on the changing spatiotemporal patterns or environmental impacts of particulate matter in the United States, the challenges that various aspects of global change pose for the management of particulate matter and related pollutants, the rates and timescales at which global change can impact United States air quality, and stronger linkages between the modeling of atmospheric processes and other environmental processes. In order to understand and adapt to future changes, environmental planners and decision makers need information on the challenge global change presents for protecting the environment and human health; this solicitation seeks research on these challenges. Awards will be made up to a total of $790K for regular awards, and up to a total of $350K for early career awards, including direct and indirect costs, with a maximum duration of three years.

National Center for Sustainable Water Infrastructure Modeling Research

Environmental Protection Agency


Contact: Michael Hiscock, 703/347-0258, hiscock.michael@epa.gov

Solicitation number: EPA-G2014-STAR-H1

The EPA, as part of its Science to Achieve Results (STAR) program, is seeking initial applications proposing the creation of a National Center for Sustainable Water Infrastructure Modeling Research (Center) that facilitates technology transfer of open source water infrastructure models and shares green infrastructure tools and research advancements with local communities and stakeholders. EPA will review the initial applications based on the initial application review criteria in Section V and the submitters of the highest-ranked initial applications will be asked to submit full applications. Prior to submitting full applications, finalists will be invited to meet as a group with EPA's National Risk Management Research Laboratory to learn more about EPA capabilities and plans for sustainable water infrastructure models. To ensure equal access to information for all finalists, one meeting will be held at EPA in Cincinnati, OH on April 23, 2014. There will be videoconferencing available for those who do not, or cannot, attend in person and a meeting summary will be provided to all finalists (see section V for further information). The objective of the award to be made under this solicitation is to establish a Center that coordinates the following three critical and integrated core components to the advancement of sustainable water models and model research: 1) Novel Research that engages sustainable water infrastructure models, modelers, model users and stakeholders towards improving real time control of water systems, advancing water infrastructure software design, building the next generation of water modeling tools, and providing solutions to such difficult problems as climate change and extreme events, population growth, water security to detect and monitor contaminants, and environmental compliance; 2) Community Support and Outreach that fosters and trains a growing global community of sustainable water infrastructure modelers, model users, and stakeholders; and 3) Model and Code Development that maintains, supports and helps develop freely available software models of sustainable stormwater, wastewater, and water supply systems. An award will be made up to a total of $4.0M, including direct and indirect costs, with a maximum duration of five years.

Environmental Education (EE)

Environmental Protection Agency

http://www2.epa.gov/education/environmental-education-ee-grant-solicitation-notice

Contact: Adrienne Priselac, priselac.adrienne@epa.gov

Solicitation number: CFDA 66.951

The purpose of this FOA is to increase public awareness and knowledge about environmental issues and provide the skills that participants in its funded projects need to make informed environmental decisions and take responsible actions toward the environment. The award amounts for the Regional grants will be no less than $75K and no more than $200K in federal funds. Applicants must demonstrate how they will provide non-federal matching funds of at least 25% of the total cost of the project.
C.23 Planetary Major Equipment
National Aeronautics and Space Administration

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.

Contact: Jeffrey Grossman, 202/358-1218, HQ-PME@mail.nasa.gov
Solicitation number: NNH12ZDA001N-PME

Land Cover and Land Use Change
National Aeronautics and Space Administration

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.

Contact: Garik Gutman, 202-358-0276, ggutman@nasa.gov
Solicitation number: NNH13ZDA001N-LCLUC

Astrophysics Research and Analysis
National Aeronautics and Space Administration

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.

Contact: Michael Garcia, 202/358-1053, Michael.R.Garcia@nasa.gov
Solicitation number: NNH13ZDA001N-APRA

Strategic Astrophysics Technology
National Aeronautics and Space Administration

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.nasaprs.com/external/solicitations/summary.do?method=init&solId={C8BE0811-9A71-EEA7-FCAF-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.nasaprs.com/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.

**Topical Workshops, Symposia, and Conferences**

National Aeronautics and Space Administration


Contact: Max Bernstein, 202/358-0879, max.bernstein@nasa.gov

Solicitation number: NNH13ZDA001N-TWSC

This program element solicits proposals for topical workshops, symposia, conferences, and other scientific/technical meetings that advance the goals and objectives of only the following SMD Divisions: Earth Science and Planetary Science. Proposals are not limited to traditional in-person meetings of scientists but may also include requests for support of other methods of bringing together members of the scientific communities relevant to NASA, such as on-line discussion forums and web-based collaboration portals, especially in support of a traditional event. Awards for this program are expected to be one year in duration. Proposals may be submitted at any time during the open period for ROSES-13.
**Fellowships for Early Career Researchers**

National Aeronautics and Space Administration


Contact: Mary Voytek, 202/358-1577, mvoytek@hq.nasa.gov

Solicitation number: NNH13ZDA001N-ECF

This program consists of two components offered by the Planetary Science Division through the ROSES solicitations. The first is the selection of an Early Career Fellow, following the submission and selection of a research proposal to any participating Planetary Science Research Program element of this ROSES NRA. The second is an opportunity for current Fellows (selected in a prior solicitation) to apply for up to $100K in start-up funds once they obtain a permanent or equivalent position. The maximum duration of award is three years for Fellowship start-up funds, if selected. For consideration as a Fellow (new applicants), submit a standard research proposal to the participating program by the deadline specified for the participating program. Proposals for start-up funds from current Fellows selected in prior years are accepted at any time through the proposal deadline.

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**Rapid Response and Novel Research in Earth Science**

National Aeronautics and Space Administration


Contact: Diane Wickland, 202/358-0245, Diane.E.Wickland@nasa.gov

Solicitation number: NNH13ZDA001N-RRNES

This program solicits proposals that advance the goals and objectives of NASA’s Earth Science Division by conducting unique research to investigate 1) unforeseen or unpredictable Earth system events and opportunities that require rapid response, and 2) novel new ideas of potential high merit and relevance for ESD science that have not otherwise been solicited by NASA in the past three years. The research activities proposed must require rapid, near-term data acquisition, field work, and/or other such research activities. Rolling submissions will be accepted until the deadline. Proposers are strongly encouraged to contact the NASA program officer(s) whose expertise best matches the proposal topic before submitting a proposal in order to determine whether the proposed work is appropriate for this ROSES program element and if funding is likely to be available for a meritorious proposal. Maximum duration of awards is three years.
**Summer Seminars and Institutes**

National Endowment for the Humanities, Division of Education Programs


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

Solicitation number: 20130305-FS

These grants support faculty development programs in the humanities for school teachers and for college and university teachers. NEH Summer Seminars and Institutes may be as short as two weeks or as long as five weeks. NEH Summer Seminars and Institutes extend and deepen knowledge and understanding of the humanities by focusing on significant topics and texts; contribute to the intellectual vitality and professional development of participants; build communities of inquiry and provide models of civility and excellent scholarship and teaching; and link teaching and research in the humanities. An NEH Summer Seminar or Institute may be hosted by a college, university, learned society, center for advanced study, library or other repository, cultural or professional organization, or school or school system. The host site must be suitable for the project, providing facilities for scholarship and collegial interaction. Proposals must meet one of four project formats: 1) Seminar for school teachers (16 participants); 2) Institute for school teachers (25 participants); 3) Seminar for college and university teachers (16 participants); or 4) Institute for college and university teachers (25-30 participants). The NEH Summer Seminars and Institutes program does not support: projects that seek to promote a particular political, religious, or ideological point of view; projects that advocate a particular program of social action; empirical research in the social sciences; specific policy studies; educational or technical impact assessments; work undertaken in the pursuit of an academic degree; the preparation or publication of textbooks; and projects that focus on pedagogical theory, research on educational methods, tests, or measurements. Awards for seminars range between $75K and $150K for a grant period of twelve months. Awards for institutes range from $90K to $200K for a grant period of fifteen months.

**Institutes for Advanced Topics in the Digital Humanities Grant**

National Endowment for the Humanities


Contact: odh@neh.gov

Solicitation number: 20140314-HT

These NEH grants support national or regional (multistate) training programs for scholars and advanced graduate students to broaden and extend their knowledge of digital humanities. Through these programs, NEH seeks to increase the number of humanities scholars using digital technology in their research and to broadly disseminate knowledge about advanced technology tools and methodologies relevant to the humanities. The projects may be a single opportunity or offered multiple times to different audiences. Institutes may be as short as a few days and held at multiple locations or as long as six weeks at a single site. The duration of a program should allow for full and thorough treatment of the topic. Possible topics and areas to be addressed might include but are not limited to applications of the Text Encoding Initiative, electronic editing, and publishing; scholarly communication and publishing; e-literature; etc.. Institutes for Advanced Topics in the Digital Humanities grants may not be used for: 1) digitization of collections; 2) support for workshops on routine computer applications from which little new knowledge about techniques or approaches in the digital humanities will emerge; 3) the development and presentation of courses or programs that focus on the skills and knowledge required to preserve, digitize, or catalog humanities collections, such as training in digital scanning; 4) graduate programs in the digital humanities; or 5)programs that are not regional (multistate) or national in scope. Awards normally range from one to three years and from $50K to a maximum of $250K in outright funds.

**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.
**Ongoing**

**Functional Genetics, Epigenetics, and Non-coding RNAs in Drug Addiction Functional (R01)**

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


Contact: John Satterlee, 301/435-1020, satterleej@nida.nih.gov  
Solicitation number: PA-11-033

This FOA encourages basic functional genomic research in two areas: 1) functional validation to determine which candidate genes/variants/epigenetic/non-coding RNA features have an authentic role in addictive processes, and 2) detailed elucidation of the molecular pathways and processes modulated by candidate genes/variants, particularly for those genes with an unanticipated role in addiction. The project period may not exceed five years. NIH prior approval is required for any application requesting $500K or more in direct costs for any year. This FOA will utilize the R01 mechanism and runs in parallel with FOAs of identical scientific scope: PA-11-034, which encourages applications under the R21 mechanism and PA-11-035, which encourages applications under the R03 mechanism.

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**Understanding and Treating Co-Morbid Conditions in Adolescents with Intellectual and Developmental Disabilities**

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


Contact: Mary Lou Oster-Granite, 301/435-6866, mo960@nih.gov  
Solicitation number: PA-11-039

This FOA encourages research project grant applications that propose to focus research upon the factors that impact functioning and quality of life in individuals with intellectual and developmental disabilities (IDD) during adolescence. Budgets for direct costs of up to $500K per year may be requested for a maximum of $2.5M direct costs over a five-year project. The companion FOAs are PA-11-040, which solicits applications under the R03 mechanism, and PA-11-041, which solicits applications under the R21 mechanism.

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**Mitochondria in Cancer Epidemiology, Detection, Diagnosis and Prognosis (R01)**

National Institutes of Health, National Cancer Institute (NCI)


Contact: Varies with research interest  
Solicitation number: PA-11-073

This FOA encourages Research Project Grant (R01) applications that propose to develop and validate new mitochondrial-related biomarkers for cancer early detection, diagnosis, prognosis, risk assessment, and response to preventive and ameliorative treatments.

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**Grants for Research in Glomerular Diseases (R01)**

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


Contact: Marva Moxey-Mims, 301/594-7717, mm726k@nih.gov  
Solicitation number: PA-10-113

NIDDK invites applications from new or established investigators to pursue exploratory investigations of glomerular disease, which would foster development of new ideas enhancing the understanding of disease detection, pathogenesis, pre-emption and/ or treatment. Costs appropriate for the project and a project duration of up to five years may be requested.
Reducing Health Disparities Among Minority and Underserved Children (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-11-104

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

Biology of Manual Therapies (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-10-209

This FOA encourages research grant applications that propose to investigate the basic science and mechanisms of action underlying the biomechanical, immunological, endocrinological or neurophysiological consequences of manual therapies, such as spinal manipulation, mobilization and massage therapy. This FOA will utilize the R01 grant mechanism and runs in parallel with a FOA of identical scientific scope, PA-10-210, that encourages applications under the R21 mechanism.

Structural Biology of Membrane Proteins (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-10-228

This FOA encourages grant applications that propose to develop research and methods to enhance the rate of membrane protein structure determination and to determine specific membrane protein structures. Innovative methods for expression, oligomerization, solubilization, stabilization, purification, characterization, crystallization, isotopic labeling, and structure determination of unique and biologically significant membrane proteins by x-ray diffraction, nuclear magnetic resonance (NMR), electron microscopy, mass spectrometry, and other biophysical techniques are encouraged.

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.
Home and Family Based Approaches for the Prevention or Management of Overweight or Obesity in Early Childhood

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-10-127

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

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.

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

National Institutes of Health


Contact: Varies with research interest
Solicitation number: RFA-HG-13-013

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)

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


Contact: Jeff Ball, 301/496-1472, BallJ@mail.nih.gov
Solicitation number: RFA-AG-14-004

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.

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

National Institutes of Health


Contact: Varies with research interest
Solicitation number: PAR-12-032

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

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

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


Contact: Regina Bures, 301/496-9485, regina.bures@nih.gov

Solicitation number: PAR-11-292

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.

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.

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

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


Contact: Varies with research interest

Solicitation number: PAR-13-266

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

National Institutes of Health, Cross-Institute


Contact:

Solicitation number: PA-14-015

This FOA will award eligible, domestic institutions to enhance predoctoral and postdoctoral research training, including short-term research training, and help ensure that a diverse and highly trained workforce is available to meet the needs of the Nation’s biomedical, behavioral, and clinical research agenda. Research training programs will incorporate didactic, research, and career development components to prepare individuals for careers that will have a significant impact on the health-related research needs of the Nation. Programs proposing only short-term research training should not apply to this announcement, but rather to the Kirschstein-NRSA Short-Term Institutional Research Training Grant Program (T35) exclusively reserved for predoctoral, short-term research training (see PA-14-016).

National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (T35)

National Institutes of Health, Cross-Institute, National Eye Institute (NEI), National Heart, Lung, and Blood Institute (NHLBI)


Contact: Varies with research interest

Solicitation number: PA-14-016

This FOA will award Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grants (T35) to eligible, domestic institutions to develop and/or enhance research training opportunities for predoctoral students interested in careers in biomedical, behavioral or clinical research. Many NIH Institutes and Centers (ICs) use this NRSA program exclusively to support intensive, short-term research training experiences for health professional students (medical students, dental students, and/or students in other health-professional programs) during the summer. This program is also intended to encourage training of graduate students in the physical or quantitative sciences to pursue research careers by short-term exposure to, and involvement in, the health-related sciences. The training should be of sufficient depth to enable the trainees, upon completion of the program, to have a thorough exposure to the principles underlying the conduct of biomedical research. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-015, that utilizes the Parent T32 Ruth L. Kirschstein NRSA Institutional Research Training Grant mechanism.

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/or overall objective and an administrative core to lead the project. Project budgets are not limited and over the maximum five-year project period.
Consortium on Modeling Autoimmune Interactions (HIRN-CMAI) (UC4)

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


Contact: Kristin Abraham, 301/451-8048, abrahamk@mail.nih.gov

Solicitation number: RFA-DK-13-017

This FOA invites new applications to participate in a Consortium on Modeling Autoimmune Interactions (CMAI) that will be focused on the goal of developing robust systems to measure and model the biology of human type 1 diabetes. CMAI will be a founding consortium within the Human Islet Research Network (HIRN). Application budgets are limited to $600K per year in direct costs over a maximum five-year project period. This FOA runs in parallel with FOAs of identical scientific scope, RFA-DK-13-013 to 13-016 & 13-018, that utilize the U01 Research Project and UC4 High Impact Research and Research Infrastructure mechanisms.

Consortium on Human Islet Biomimetics (HIRN-CHIB) (UC4)

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


Contact: Sheryl Sato, 301/594-8811, smsato@mail.nih.gov

Solicitation number: RFA-DK-13-016

This FOA invites new applications to participate in the Consortium on Human Islet Biomimetics (CHIB) that will support the development of a human islet microphysiological system or niche (a system that combines cells, cytoarchitecture, matrix, physical factors, secreted factors, etc.). CHIB will be part of the Human Islet Research Network (HIRN). Application budgets are limited to $1.2M per year in direct costs over a five-year maximum project period. This FOA runs in parallel with FOAs of identical scientific scope, RFA-DK-13-013 to 13-015 & 13-017/13-018, that utilize the U01 Research Project and UC4 High Impact Research and Research Infrastructure mechanisms.

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.
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, mossstua@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.

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.

Computational Analyses Exploiting Reference Epigenomic Maps (R01)

National Institutes of Health


Contact: Lisa Chadwick, 850/727-7218, chadwickL@niehs.nih.gov

Solicitation number: RFA-RM-14-001

This FOA, part of the NIH Common Fund program in Epigenomics, seeks applications from investigators proposing computational analyses that will take advantage of the publicly available reference epigenomic maps generated as part of the Roadmap Epigenomics Program. No more than $200K in direct costs may be requested in a single year over a two-year maximum project period.
Plasticity and Mechanisms of Cognitive Remediation in Older Adults (R01)

National Institutes of Health, National Center for Complementary and Alternative Medicine (NCCAM), National Institute on Aging


Contact: Molly Wagster, 301/496-9350, wagsterm@nia.nih.gov

Solicitation number: RFA-AG-14-016

This FOA solicits R01 grant applications from applicant organizations that propose to develop and implement interventions to remediate age-related cognitive decline. A crucial feature of these applications will be the embedding of the testing of the proposed intervention into a measurement framework that will: 1) help elucidate its mechanism of action; 2) identify specific individuals who are more likely or less likely to benefit from the intervention, and 3) examine whether adaptive plastic changes have occurred in the structure or function of the CNS as a result of the intervention, and whether these neural changes help explain the pattern of improvement seen in cognitive functioning. Although projects may include an observational component, the interventions developed should be tested in a randomized clinical trial. Applications that utilize smart factorial trial designs for cost-efficient gain of rich information for multiple interventions are encouraged. Key types of interventions that hold promise for remediation of age-related cognitive decline include: pharmacological approaches; cognitive training, cognitive engagement/stimulation; aerobic exercise; nutraceutical or dietary supplementation; enhancement of self-efficacy or self-monitoring; complementary mind and body approaches such as meditation, mindfulness-based stress reduction, movement therapies (e.g., Tai Chi), manual therapies (e.g., massage). Applications that address potential behavioral mediators (e.g., driving, financial decision-making) that may facilitate real-life function are encouraged. NIH intends to fund an estimate of 1-2 awards, corresponding to a total of $3M, for fiscal year 2014. Future year amounts will depend on annual appropriations. The maximum project period is five years.

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.

Studies in Neonatal Hypoglycemia (R01)

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


Contact: Tonse Raju, 301/402-1872, rajut@mail.nih.gov

Solicitation number: PA-11-053

This FOA encourages applications to propose studies related to basic, applied, and translational research in neonatal hypoglycemia, which may lead to better monitoring and treatment strategies for altered neonatal glucose homeostasis. This FOA runs in parallel with FOAs of identical scientific scope, PA-11-054 and PA-11-055, that encourage applications under the R03 and R21 award mechanisms. Budgets for direct costs of up to $499,999 per year and project duration of up to five years may be requested.
Mechanisms of Adverse Drug Reactions in Children (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-11-051
This FOA encourages projects that enhance the state-of-the-science on the molecular and cellular, genetic and epigenetic mechanisms involved in the production of adverse drug reactions in children. The objective of this announcement includes research on the role of ontogeny and the characterization of pharmacogenetic and developmental variations of drug metabolizing enzymes (DMEs), transporters, ion channels, receptors and signaling pathways that are responsible for drug toxicity in the pediatric population. The maximum project period is five years. This FOA runs in parallel with PAR-11-052, which solicits applications under the R03 mechanism.

Developmental Pharmacology (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-11-057
This FOA encourages applications that propose to encourage multidisciplinary, investigator-initiated basic and translational research in developmental pharmacology with particular emphasis on the role of ontogeny on drug metabolizing enzymes, transporters, receptors and signaling pathways activity across developmental periods from fetal life to adolescence. Applications for an R01 award are limited to a total direct cost of $499,999 and may not exceed five years. This FOA runs in parallel with PAR-11-058, which solicits applications under the R03 Small Grant Program mechanism, and PAR-11-059, which solicits applications under the R21 Exploratory/Developmental Grant mechanism.

Research on Autism and Autism Spectrum Disorders (R01)
National Institutes of Health, Cross-Institute
Contact: Lisa Gilotty, 301/443-3825, gilottyl@mail.nih.gov
Solicitation number: PA-13-216
This FOA encourages research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, treatment, and optimal means of service delivery in relation to autism spectrum disorders. Basic, clinical, and applied studies are encouraged. This FOA runs in parallel with two FOAs of identical scientific scope, PA-10-159 and PA-10-160, which encourage applications under the R03 and R21 mechanisms, respectively.

Research on Alcohol-Related Public Policies (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: Gregory Bloss, 301/443-3865, gbloss@mail.nih.gov
Solicitation number: PA-11-087
This FOA invites applications to conduct research on the effects of alcohol-related public policies on health, economic, and social behaviors and outcomes. The purpose of the FOA is to advance understanding of public policy pertaining to alcohol as a tool for improving public health and welfare. Research supported by this FOA includes, but is not necessarily limited to, studies examining the effects of alcohol-related public policies on health-related behaviors and outcomes, evaluations of public policies as tools for improving public health, and research to advance methods and measurement used in studying relationships between alcohol-related public policies and health-related behaviors and outcomes. This FOA runs in parallel with PA-11-088, which solicits applications under the R03 mechanism, and PA-11-089, which solicits applications under the R21 mechanism.
Ancillary Studies to the NIDDK Intestinal Stem Cell Consortium (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Jill Carrington, 301/402-0671, carringj@mail.nih.gov
Solicitation number: PAR-13-066
This FOA is to encourage applications to conduct ancillary studies to the NIDDK Intestinal Stem Cell Consortium (ISCC). Studies will make use of consortium collaborations, techniques, and resources to accelerate research into intestinal stem cells. The proposed ancillary study must be designed to advance the scientific research mission of the NIDDK by focusing on diseases and areas of interest to the Institute and commensurate with the interests and intent of the ISCC. The maximum period is five years.

Family and Interpersonal Relationships in an Aging Context (R01)
National Institutes of Health, National Institute on Aging (NIA)
Contact: Erica Spotts, 301/496-3136, spottse@mail.nih.gov
Solicitation number: PA-11-128
This FOA invites researchers to submit R01 research grant applications on aging and the family. The objective of this research program is to expand understanding of the role of families and interpersonal relationships in the health and wellbeing of older people. This will be accomplished through increasing scientific knowledge on the effects of family and interpersonal relationships on behavioral and social processes of relevance to aging; and on how these processes change over the life course and across cohorts. A broad range of methods and approaches are encouraged. The maximum project period is five years.

Economics of Retirement (R01)
National Institutes of Health, National Institute on Aging (NIA)
Contact: John Phillips, 301/496-3138, John.Phillips@nih.gov
Solicitation number: PA-11-138
This FOA encourages research on the economic and health-related factors that influence older persons' choices on labor force participation as they near typical retirement age and throughout the later stages of life. Awards can be submitted for a maximum of five years. This FOA runs in parallel with PA-11-139, which solicits applications under the R03 Small Grant Program mechanism, and PA-11-140, which solicits applications under the R21 Exploratory Developmental Grant mechanism.

Nanoscience and Nanotechnology in Biology and Medicine (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-11-148
This FOA encourages applications that apply nanoscience and nanotechnology approaches to address problems in biology and medicine. The purpose of this FOA is to provide support for cutting-edge nanoscience and nanotechnology research that can lead to biomedical breakthroughs and new investigations into the diagnosis, treatment, and management of an array of diseases and traumatic injuries. This FOA will also support research projects that develop new or improved nanotechnology and nanoscience-based tools, methods, concepts, and devices that lead to a better understanding of basic biology in addition to conducting translational biomedical studies. The maximum project period is five years. This FOA runs in parallel with PA-11-149, which solicits applications under the R21 Exploratory/Developmental Grant mechanism.
Technology Development for Protein Modeling (R01)
National Institutes of Health, National Institute of General Medical Sciences (NIGMS)
Contact: Ward Smith, 301/443-9375, smithwar@nigms.nih.gov
Solicitation number: PAR-13-033
This FOA encourages grant applications that propose to develop novel technologies that will significantly improve the accuracy of comparative modeling methods for protein structure prediction. The two main goals of this FOA are: 1) to increase the quality of protein structure models to a level comparable to high-resolution X-ray crystal structures when known structures are available with 30% sequence identity to the modeling targets, and 2) to increase model quality to 2 Angstroms RMSD or better when known structures are available with as low as 10% identity to the targets. The maximum project period allowable is five years.

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)
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 overriding 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.

Collaborations with National Centers for Biomedical Computing (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-12-001
This FOA solicits projects from individual investigators or small groups to collaborate with the NIH Common Fund for Medical Research National Centers for Biomedical Computing (NCBCs). The intention of the collaborating projects is to engage researchers across the nation in building an excellent biomedical computing environment, using the computational tools and biological and behavioral application drivers of the funded NCBCs as foundation stones. The maximum project period is five years.
Implications of the Economic Downturn for Health, Wealth, and Work at Older Ages (R01)
National Institutes of Health, National Institute on Aging (NIA)
Contact: John Phillips, 301/496-3138, john.phillips@nih.gov
Solicitation number: PA-12-009
This FOA invites research on the implications of exogenous shocks, such as those produced by the recent economic downturn, for health, economic circumstances, and planning throughout the life-cycle. The maximum project period is five years.

Effects of Adolescent Binge Drinking on Brain Development (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
http://grants.nih.gov/grants/guide/pa-files/PA-12-027.html
Contact: Lawrence Baizer, 301/443-9334, baizerl@mail.nih.gov
Solicitation number: PA-12-027
This FOA encourages Research Project Grant (R01) applications proposing to conduct mechanistic studies on the effects of adolescent binge alcohol consumption on synaptic maturation and myelin formation in the developing brain. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-028, which utilizes the R21 Exploratory/Developmental Grant mechanism.

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

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

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


Contact: David Johnson, 301/496-7104, drjohnson@niaid.nih.gov

Solicitation number: PAR-12-036

This FOA is intended to support innovative investigations in primary immunodeficiency diseases. Of particular interest are the detection of primary immunodeficiency diseases, the identification of the molecular basis of these diseases, and the design and pre-clinical development of innovative therapies for these diseases. Studies using samples obtained from humans and studies on animal models are encouraged. Investigators who have not received independent NIH funding in this field are encouraged to apply. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-10-147, which utilizes the R03 Small Grant mechanism, and PAS-10-148, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Research to Advance Vaccine Safety (R01)

National Institutes of Health, Cross-Institute

http://grants.nih.gov/grants/guide/pa-files/PA-12-037.html

Contact: Varies with research interest

Solicitation number: PA-12-037

The purpose of this FOA is to support research that will contribute to the overall understanding of vaccine safety. This research opportunity invites studies that address scientific areas potentially relevant to vaccine safety such as 1) physiological and immunological responses to vaccines and vaccine components, 2) how genetic variations affect immune/physiological responses that may impact vaccine safety, 3) identification of risk factors and biological markers that may be used to assess whether there is a relationship between certain diseases or disorders and licensed vaccines, 4) creation/evaluation of statistical methodologies for analyzing data on vaccine safety, including data available from existing data sources such as passive reporting systems, or 5) the application of genomic/molecular technologies to improve knowledge of vaccine safety. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-038, which utilizes the R21 Exploratory/Developmental Grant mechanism.

International Research Collaboration on Drug Abuse and Addiction Research (R01)

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


Contact: Steven Gust, 301/443-6480, ipdirector@nida.nih.gov

Solicitation number: PA-12-040

This FOA encourages collaborative research applications on drug abuse and addiction that take advantage of special opportunities that exist outside the U.S. Special opportunities include access to unusual talent, resources, populations, or environmental conditions in other countries that will speed scientific discovery. This year the scientific priorities include: linkages between HIV/AIDS and drug abuse, and prevention, initiation, and treatment of nicotine and tobacco use (especially among vulnerable populations such as children, adolescents, pregnant women, and those with co-morbid disorders).
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.

10/5/2014 Application
2/5/2014 Application
6/5/2014 Application

Alcohol Abuse, Sleep Disorders and Circadian Rhythms (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
http://grants.nih.gov/grants/guide/pa-files/PA-12-177.html

Contact: Lindsey Grandison, 301/443-0606, lindsey.grandison@nih.gov
Solicitation number: PA-12-177

This FOA encourages Research Project Grant (R01) applications proposing to conduct mechanistic studies in humans and animal models on the relationships between alcohol abuse, circadian rhythms and sleep disorders. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-178, that utilizes the R21 Exploratory/Developmental Grant mechanism.

2/5/2014 Application
6/5/2014 Application

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.

2/5/2014 Application
6/5/2014 Application

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.

2/5/2014 Application
6/5/2014 Application
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 Institutes of Health
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)

[grants.nih.gov/grants/guide/pa-files/PA-12-208.html](http://grants.nih.gov/grants/guide/pa-files/PA-12-208.html)

Contact: Amanda Boyce, 301/594-5055, boycea@mail.nih.gov

Solicitation number: PA-12-208

This FOA encourages applications for support of innovative, projects aimed at studying the spectrum of activities of skeletal muscle in health and disease that are beyond its role in contraction and locomotion. These activities include endocrine and paracrine functions of skeletal muscle, resting muscle thermogenesis, sensing of biomechanical stimuli, storing amino acids, regulating systemic metabolism, etc. Advancing understanding of these important functions of muscle may lead to novel strategies for the prevention or treatment of common conditions such as cachexia, obesity, diabetes and sarcopenia. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-209, that utilizes the R21 Exploratory/Developmental Grant.

Biomarkers for Early Detection of Hematopoietic Malignancies (R01)

National Institutes of Health, National Cancer Institute (NCI)

[grants.nih.gov/grants/guide/pa-files/PA-12-221.html](http://grants.nih.gov/grants/guide/pa-files/PA-12-221.html)

Contact: Lynn Sorbara, 301/435-0584, lynns@mail.nih.gov

Solicitation number: PA-12-221

This FOA encourages research projects for the development and validation of biomarkers for: a) early detection, prediction of progression, and recurrence of hematopoietic malignancies, especially in high-risk individuals; and, b) for risk assessment of primary and secondary hematopoietic malignancies. This FOA also encourages the development and improvement of specific technologies and methods for quantitative detection of novel biomarkers associated with hematopoietic malignancies. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-220, that utilizes the R21 Exploratory/Developmental Research Grant Award.

Research on Psychopathology In Intellectual Disabilities (R01)

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


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

Solicitation number: PA-12-219

The purpose of this FOA 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.

Estimating the Economic Costs of Alzheimer’s Disease and Related Dementias (R01)

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

http://grants.nih.gov/grants/guide/pa-files/PA-12-255.html

Contact: Colin Baker, 301/402-4447, colin.baker@mail.nih.gov

Solicitation number: PA-12-255

This FOA encourages research on the economic costs of Alzheimer’s disease and related dementias, including direct and indirect costs to public and private health care payers, families and other informal caregivers, as well as labor market costs from reduced productivity or labor force participation. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope: 1) PA-12-253, which utilizes the R03 Small Grant Program; and 2) PA-12-254, which utilizes the R21 Exploratory/Developmental Research Grant Award.
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.

Effects of In Utero Alcohol Exposure on Adult Health and Disease (R01)

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


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

Solicitation number: PA-12-291

This FOA is intended to support novel research on how prenatal alcohol exposure may contribute to the etiology of chronic diseases and health conditions later in life. Central to this theme is the developmental origins of health and disease (DOHaD) concept which suggests that fetal adaptations in response to adverse intrauterine conditions may increase the risk for childhood and adulthood disease. The goal of this FOA is to stimulate a broad range of research to: 1) leverage existing prospective birth cohorts to define the role of maternal alcohol consumption in the DOHaD process; 2) investigate the biological, cellular, and molecular mechanisms by which prenatal alcohol exposure may impact disease outcomes later in life; and 3) identify biomarkers associated with gestational alcohol exposure that may predict adult disease susceptibility in exposed offspring. Studies supported by this FOA will provide fundamental insights into a possible fetal-basis to adult disease that is influenced by maternal alcohol use. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PA-12-292, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Ancillary Studies of Acute Kidney Injury, Chronic Kidney Disease, and End Stage Renal Disease Accessing Information

This FOA encourages investigator-initiated research project applications for ancillary studies to ongoing or completed clinical trials, existing administrative and clinical databases and epidemiological studies of kidney disease as well as clinical trials and epidemiological studies for other diseases or populations that lend themselves to the study of acute kidney injury and chronic kidney disease. These studies may range from new analyses of existing datasets of completed studies to additional collection of data and biological specimens in ongoing investigations. The goal of these studies should be to extend our understanding of the risk factors for developing kidney disease and their associated co-morbid illnesses such as malnutrition and cardiovascular disease, factors associated with rapid decline in kidney function among persons with chronic kidney disease, and the impact of these diseases on quality of life and mental and physical functioning. Investigations of acute kidney injury, including biomarkers are also an appropriate topic for investigation. Studies ancillary to both government and non-government supported clinical trials and epidemiological studies are encouraged. Analysis of large public access databases and other databases is also encouraged. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project period is five years.

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

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.

The Impact of Parental Military Deployment and Reintegration on Child and Family Functioning (R01)

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.
Stimulating Hematology Investigation - New Endeavors (SHINE) (R01)

The overall objectives of the SHINE program are to catalyze discoveries in basic molecular and cellular biology that provide new insights into the pathogenesis, prevention, detection, and potential treatment of disease, to attract new investigators into basic and translational hematology research, to promote productive interdisciplinary research collaborations, and to reinforce interactions and communication between NIDDK and the hematology research community. Specific research objectives supported by the SHINE program in this initial announcement are: 1) Regulatory Determinants of Hematopoietic Stem Cell Fate; 2) Stress Erythropoiesis; 3) Biology and Pathophysiology of Myelodysplastic Syndromes (MDS); 4) Ribosomes and Their Role in Disease; 5) Heme Regulation during Erythropoiesis; 6) Anemia of Inflammation and of Chronic Disease; and 7) Iron Overload. NIH intends to fund an estimate of two to four awards, corresponding to a total of $1M for FY 2013. The maximum project period is five years.

Contact: Terry Bishop, 301/594-7726, tb232j@nih.gov
Solicitation number: PAS-13-031

Erythropoiesis - Components and Mechanisms (R01)

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

Contact: Varies with research interest
Solicitation number: PA-13-034

Solid Organ Transplantation - Older Donors and Recipients (R01)

This FOA invites applications that propose basic, clinical, translational, epidemiological and outcomes research on solid organ transplant (SOT) in older persons. Research may focus on, but is not limited to: 1) appropriate selection of older SOT donors and recipients; 2) improved management of older SOT recipients; 3) immunology and immunosuppression pertaining to older SOT patients; and 4) healthcare disparities, utilization and costs of SOT in older patients. Research supported by this initiative is expected to enhance knowledge of immunobiology in aging and transplantation, and to provide evidence-based guidance to improve access to transplantation, organ allocation and utilization, graft survival, and short- and long-term outcomes of SOT in older persons. The maximum project period is five years. This FOA runs in parallel with two FOAs of identical scientific scope: 1) PA-13-037, which utilizes the R03 Small Grant Program mechanism; and 2) PA-13-038, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Calcium Oxalate Stone Diseases (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)


Contact: Rebekah Rasooly, 301/594-6007, rebekah.rasooly@nih.gov
Solicitation number: PA-13-043

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

Drug Discovery for Nervous System Disorders
National Institutes of Health, Cross-Institute


Contact: Varies with research interest
Solicitation number: PAR-13-048

Significant advances in neuroscience, genetics, and basic behavioral science, together with technological developments, have provided a rich knowledge base for identifying new molecular targets for drug discovery, and developing rational pharmacotherapies for the treatment of a wide variety of nervous system disorders. With the wealth of potential new drug targets, the opportunity exists to accelerate the process of drug discovery and development to make quantum leaps toward novel and effective treatments for mental disorders, drug and alcohol abuse, and nervous system disorders associated with aging. Through this funding opportunity the National Institute of Mental Health (NIMH), National Institute on Aging (NIA), National Institute on Alcohol Abuse and Alcoholism (NIAAA), and the National Institute on Drug Abuse (NIDA) seek to encourage the submission of research grant applications that aim to translate this wealth of basic science findings into the conceptualization, discovery, and preclinical evaluation of innovative therapeutics for nervous system disorders, with the goal of accelerating the development of new treatments for these diseases. The objective of this FOA is to stimulate research in the discovery, design, and preclinical testing of novel therapeutics aimed at prevention or treatment of nervous system disorders. Studies aimed at the development and testing of compounds for novel targets are encouraged, however projects designed for target identification are not covered under this announcement. The goal is to advance new, innovative, and effective therapies for the prevention and treatment of nervous system disorders. The maximum project period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PAR-13-049, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Pain in Aging (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-058
This FOA encourages Research Project Grant (R01) applications from institutions/organizations that propose to study pain from an aging perspective, including studies of older populations, studies of age differences and age-related changes in pain processes and experiences, and studies of pain treatment and management in older adults. This FOA particularly encourages studies on: 1) mechanisms and predictors of pain experience in aging, 2) development and evaluation of pain assessment tools for older adults or older model organisms, and 3) development and evaluation of pain management strategies in older adults, with particular attention to the challenges associated with treating pain in patients with multiple morbidities. Studies may address a variety of approaches and outcomes including biological (i.e., genetic, molecular, neurobiological), clinical, behavioral, psychological, and social factors. Both animal models (especially aged animals) and human subjects are appropriate for this FOA. The maximum project period is five years.

Advances in Polycystic Kidney Disease (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Rebekah Rasooly, 301/594-6007, rebekah.rasooly@nih.gov
Solicitation number: PA-13-064
It is the intent of this FOA to encourage applications from investigators with diverse scientific interests, who wish to apply their expertise into basic and applied research to enhance the understanding of the etiology and pathogenesis of both ADPKD and ARPKD; the genetic determinants and cellular and molecular mechanisms which disrupt normal kidney function; the mechanisms of cyst formation and growth at the cellular and molecular levels; the development of experimental model systems; the development of innovative regenerative approaches; the enhancement of imaging methods or other biomarkers to assess cyst growth and disease progression; and research studies aimed at the identification of therapeutic opportunities and gene targeted strategies to prevent progressive chronic kidney disease due to this disorder. The maximum project period is five years.

Behavioral & Integrative Treatment Development Program (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-077
The purpose of this FOA is to encourage behavioral intervention development research to test efficacy, conduct clinical trials, examine mechanisms of behavior change, determine dose-response, optimize combinations, and/or ascertain best sequencing of behavioral, combined, sequential, or integrated behavioral and pharmacological: 1) drug abuse treatment interventions, including interventions for patients with comorbidities, in diverse settings; 2) drug abuse treatment and adherence interventions for use in primary care; 3) drug abuse treatment and adherence interventions that utilize technologies to boost effects and increase implementability; 4) interventions to prevent the acquisition or transmission of HIV infection among individuals in drug abuse treatment; 5) interventions to promote adherence to drug abuse treatment, HIV and addiction medications; and 6) interventions to treat chronic pain. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-078, which utilizes the R34 Clinical Trial Planning Grant Program mechanism and PA-13-079, which utilizes the R03 Small Grant Program mechanism.
Accelerating the Pace of Drug Abuse Research Using Existing Data (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-13-080
The purpose of this FOA is to invite applications proposing the innovative analysis of existing social science, behavioral, administrative, and neuroimaging data to study the etiology and epidemiology of drug using behaviors (defined as alcohol, tobacco, prescription and other drug) and related disorders, associated HIV risk behaviors, prevention of drug use and HIV, and health service utilization. Under this FOA, the National Institute on Drug Abuse (NIDA), National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Cancer Institute (NCI), and the Office of Behavioral and Social Sciences (OBSSR) encourage the analyses of public use and other extant community-based or clinical datasets to their full potential in order to increase our knowledge of etiology, trajectories of drug using behaviors and their consequences, risk and resilience in the development of psychopathology, strategies to guide the development, testing, implementation, and delivery of high quality, effective and efficient services for the prevention and treatment of drug abuse and HIV. Budgets for direct costs of up to $150K direct costs per year and a project duration of up to three years may be requested, for a maximum of $450K direct costs over a three-year project period.

School Nutrition and Physical Activity Policies, Obesogenic Behaviors and Weight Outcomes (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-100
This FOA encourages applications that propose to: 1) foster multidisciplinary research that will evaluate how policies can influence school physical activity and nutrition environments, youths’ obesogenic behaviors (e.g., nutrition and physical activity behaviors), and weight outcomes; 2) understand how schools are implementing these policies and examine multi-level influences on adoption and implementation at various levels (e.g. federal, state, school district, and school); and 3) understand the synergistic or counteractive effect of school nutrition and physical activity polices on the home and community environment and body weight. The Social Ecological Framework is one of several frameworks that can be used to examine the interrelations among polices aimed at the school and home environment, individual diet and physical activity behaviors and weight outcomes. Application budgets are not limited but need to reflect the actual needs of the project. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PA-13-099, which utilizes the R03 Small Grant Program mechanism; and 2) PA-13-098, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Disorders of Human Communication - Effectiveness, Outcomes and Health Services Research (R01)

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


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

Solicitation number: PA-13-102

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

Obesity Policy Evaluation Research (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-110

Obesity is a major contributor to many serious health conditions that increase morbidity and mortality and reduce quality of life. The prevalence of obesity in children and adults in the United States has dramatically increased in the past four decades. Nationally there is an imperative to take action at local, state and federal levels, especially related to obesity in children. While helping people achieve and maintain a healthy weight is a critical public health goal, relatively little is known about the effectiveness of large scale policies and programs that could help achieve this goal at the population level, or any differential effects on sub-populations. Institute Specific Interests include: 1) NIDDK is particularly interested in the evaluation of large scale weight related programs or policy that are targeted to obesity and/or diabetes prevention; 2) NHLBI is especially interested in research on programs and policies that target cardiovascular disease risk factors such as obesity, diabetes, and adverse health behaviors (physical inactivity, poor dietary behaviors, sleep disorders); 3) NICHD is interested in applications that propose to evaluate the impact of weight related policies or programs on children, families, pregnant women, or children with disabilities; 4) NCI is particularly interested in the evaluation of programs or policies that may affect dietary or physical activity behavior and/or weight, and studies incorporating economic research; and 5) NIA is especially interested in research on programs and policies affecting sedentary behavior and physical activity among older adults, including programs and policies based on research in behavioral economics. The maximum project period is five years.
Mechanistic Insights from Birth Cohorts (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-13-109
Little is known about the mechanisms by which such prenatal exposures lead to diabetes or obesity, renal, pulmonary, or cardiovascular or hematologic disease, neurodevelopmental disorders, or reproductive health (i.e. fertility). Ultimately, a better mechanistic understanding of how prenatal exposures contribute to the etiology of chronic diseases and health conditions later in life will allow for the development of effective interventions during pregnancy or early life that may have a profound impact on disease prevention and the future health of the offspring. Proposed studies must take advantage of existing (or accruing) birth cohorts, with well-characterized pregnancies, such that targeted mechanistic questions regarding the developmental origins of diabetes or obesity, renal, pulmonary, or cardiovascular or hematologic disease, neurodevelopmental disorders, or reproductive health (i.e. fertility) can be addressed. Applications should focus on potential mechanisms that mediate the developmental origins of human disease. Applications submitted to this FOA should target diabetes or obesity, renal, pulmonary, or cardiovascular or hematologic disease, neurodevelopmental disorders, or reproductive health. Application budgets are limited to less than $500K in direct costs per year for a maximum of five years.

Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-13-114
This FOA encourages applications from institutions and organizations proposing research aimed at characterizing animal stem cells and improving existing, and creating new, animal models for human disease conditions. The intent of this initiative is to facilitate the use of stem cell-based therapies for regenerative medicine, and focuses on the following areas: 1) comparative analysis of animal and human stem cells to provide information for selection of the most predictive and informative model systems; 2) development of new technologies for stem cell characterization and transplantation; and 3) improvement of animal disease models for stem cell-based therapeutic applications. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum award period is 4 years for ORIP/DPCPSI and 5 years for NHLBI, NIDCR, NIDDK and NIGMS.

Mechanisms, Models, Measurement, & Management in Pain Research (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-118
The purpose of this FOA is to inform the scientific community of the pain research interests of the various Institutes and Centers (ICs) at NIH and to stimulate and foster a wide range of basic, clinical, and translational studies on pain as they relate to the missions of these ICs. New advances are needed in every area of pain research, from the micro perspective of molecular sciences to the macro perspective of behavioral and social sciences. Although great strides have been made in some areas, such as the identification of neural pathways of pain, the experience of pain and the challenge of treatment have remained uniquely individual and unsolved. Furthermore, our understanding of how and why individuals transition to a chronic pain state after an acute injury is limited. Research to address these issues conducted by interdisciplinary and multidisciplinary research teams is strongly encouraged, as is research from underrepresented, minority, disabled, or women investigators. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PA-13-117, which utilizes the R03 Small Grant Program mechanism; and 2) PA-13-119, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Research on Alcohol and HIV & AIDS (R01)

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


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

Solicitation number: PA-13-121

This FOA is intended to appeal to a broad audience of alcohol and HIV/AIDS researchers, including alcohol researchers with no prior experience in HIV/AIDS research but with a keen appreciation for the relationship between problem drinking and HIV/AIDS and a strong interest in acquiring such experience; HIV/AIDS researchers with no prior alcohol research experience who realize the importance of more intensive alcohol interventions to improving clinical outcomes among HIV-infected individuals; and those with prior research experience in the area of co-occurring HIV/AIDS and alcohol and other substance abuse. The primary objectives for this announcement are to increase research: 1) to characterize the relative importance of reducing alcohol misuse in the prevention of acquisition and transmission of HIV in order to identify and apply appropriate alcohol and HIV interventions as public health measures; 2) to more fully understand and prevent the progression of HIV disease in the presence of continued alcohol exposure; and 3) to develop operational research frameworks for addressing the occurrence and persistence of infections in high-risk populations (e.g. minority women, young gay men, etc.), and translate findings into effective, culturally appropriate preventive and treatment interventions for these targeted populations. Application budgets are not limited but need to reflect actual needs of the proposed project. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PA-13-122, which utilizes the R21 Exploratory/Developmental Grant mechanism; and 2) PA-13-120, which utilizes the R03 Small Research Project Grant mechanism.

Bioengineering Research Grants (BRG) (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-137

The purpose of this funding opportunity announcement is to encourage collaborations between the life and physical sciences that: 1) apply a multidisciplinary bioengineering approach to the solution of a biomedical problem; and 2) integrate, optimize, validate, translate or otherwise accelerate the adoption of promising tools, methods and techniques for a specific research or clinical problem in basic, translational, or clinical science and practice. An application may propose design-directed, developmental, discovery-driven, or hypothesis-driven research and is appropriate for small teams applying an integrative approach that can increase our understanding of and solve problems in biological, clinical or translational science. Application budgets are not limited but need to reflect actual needs of the proposed project. The maximum award period is 4 or 5 years depending on the NIH Institutes and Centers. This FOA runs in parallel with other FOAs of identical scientific scope: PA-12-284, which utilizes the R21 Exploratory/Developmental Bioengineering Research Grants mechanism, and PAR-10-234, which utilizes the R01 Bioengineering Research Partnerships mechanism.
Innovative Research Methods - Prevention and Management of Symptoms in Chronic Illness (R01)

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

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)

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 Research Grant Award mechanism, and PA-13-162, that utilizes the R03 Small Grant Program mechanism.
Addressing Health Disparities in NIDDK Diseases (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

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

Mechanisms of Alcohol and Nicotine Co-Addiction (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)

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

Development and Characterization of Animal Models for Aging Research (R01)
National Institutes of Health, National Institute on Aging (NIA), National Institute on Deafness and Other Communication Disorders

Contact: Varies with research interest
Solicitation number: PA-13-155
The purpose of this FOA is to promote research that develops, characterizes, refines and enhances model systems for aging research. Studies of the biology of aging require biological models systems such as rodents and cell lines; no human studies are involved. Studies developing new model systems or refining existing models to maximize their value for aging research will contribute to the understanding of normal changes in physiology and function with age and the onset, progression, therapeutics and prevention of age-associated diseases. Application budgets are not limited; the maximum project period is five years.
Innovative Measurement Tools for Community Engaged Research Efforts (R01)

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


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

Solicitation number: PA-13-209

This FOA seeks to develop innovative measurement for community engaged research efforts. The use of community engaged research (CEnR) methodologies, such as community-based participatory, community-based, and practice-based research are regarded as valid approaches to prevent disease and promote health. A collaborative effort between community partners and researchers to engage in research that benefits community is a central tenet to CEnR. Specific areas of research interest include:

1) Develop and test tools that measure trust between partners in engagement efforts;
2) Develop and test tools that measure capacity/readiness for research efforts;
3) Develop and test tools to measure successful partnership/collaboration in engagement efforts;
4) Develop reliable and valid tools that can be used in measuring community engaged research efforts that impact individual outcomes such as trust, capacity, empowerment, and collaboration;
5) Use established statistical procedures to test existing or newly developed instruments;
6) Develop and test instruments that measure the success or failure of partnership efforts;
7) Apply existing tools in measuring community engaged research efforts;
8) Develop and test scientific measures of sustainability for health improvement programs; and
9) Develop and test scientific outcome measures related to improving health disparities. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-13-212, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Understanding User Needs and Context to Inform Consumer Health Information Technology (IT) Design (R01)

National Institutes of Health


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

Solicitation number: PA-11-199

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

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.

Gut Microbiota-Derived Factors in the Integrated Physiology and Pathophysiology of Diseases within NIDDKs Mission

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


Contact: Michael Grey, 301/451-3759, greymj@mail.nih.gov

Solicitation number: PAR-13-293

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.

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 pathophysiologic, 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 Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R01)

National Institutes of Health


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

Solicitation number: PAR-13-325

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.

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

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


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

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

National Institutes of Health


Contact: John Satterlee, 301/435-1020, mailto:satterleej@nida.nih.gov
Sollicitation number: PA-11-033

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

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

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


Contact: Jonathan Pollock, 301/435-1309, jpollock@mail.nih.gov
Sollicitation number: PA-14-025

This FOA encourages applications for research projects that identify and/or validate chromosomal loci and variations in genes that are associated with vulnerability to addiction and that inform the likelihood of responsiveness to treatment. Applications that propose to examine intermediate phenotypes or endophenotypes to assess the molecular genetics of drug addiction, addiction vulnerability and/or their associated co-morbidities and how they are related to drug addiction are especially encouraged. Also encouraged are genetic as well as computational and large-scale genomic approaches, which may include but are not limited to linkage, linkage disequilibrium, case-control or family-based studies, and integration of data from other databases that may supplement substance abuse genetics and genomics data. Data may be collected from the general population, special populations, recent admixed populations, and/or animal models. Secondary data analysis of data collected from the general population, special populations, recent admixed populations, and/or animal models is also appropriate for this announcement. Investigators are encouraged to include, as a component of their project and as appropriate, gene x gene interactions, gene x environment interactions, gene x environment x development interactions, pharmacogenetics, and non-human models. The maximum project period is five years.
Public Health Impact of the Changing Policy & Legal Environment for Marijuana (R01)

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

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

Solicitation number: PAS-14-020

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

Substance Use and Abuse, Risky Decision Making and HIV & AIDS (R01)

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

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

Solicitation number: PA-14-061

This FOA is intended to stimulate model-driven research to understand the ways that people make decisions about engaging in behaviors that impact the risk of acquiring or transmitting HIV, or to adhere to treatments for HIV. Decision making processes may contribute to both substance use/abuse and other HIV acquisition or transmission risks. A better understanding of decision making processes in the context of brain neural networks and their associated functions would lead to the development of better strategies to reduce the frequency of HIV-risk behaviors. Therefore, this FOA encourages applications to study 1) cognitive, motivational or emotional mechanisms and/or 2) brain neuroendocrine and reinforcement systems that related to HIV-risk behaviors or treatment non-compliance. Interdisciplinary studies that incorporate approaches from psychology, economics, anthropology, sociology, decision sciences, neuroscience and computational modeling are encouraged. This FOA for R01 applications solicits empirical, hypothesis-driven, confirmatory research and modeling approaches. Exploratory, descriptive or hypothesis-generating research are more appropriate for the complementary FOA’s using the R21 or R03 mechanisms. In no cases, should research involving animals be proposed. This FOA runs in parallel with a FOAs of identical scientific scope, PA-14-062 and PA-14-063, that utilize the R21 Exploratory/Developmental Grant and R03 Small Grant Program mechanisms, respectively.
Enhancing Sustainability and Building the Science of Palliative Care (R01)
National Institutes of Health, National Institute of Nursing Research (NINR)
Contact: Donna McCloskey, 301/594-5971, mccloskd@mail.nih.gov
Solicitation number: RFA-NR-14-003

The purpose of this Funding Opportunity Announcement is to enhance the research and resource activities of the Palliative Care Research Cooperative (PCRC) by funding high quality, cutting edge palliative care and end-of-life (PCEOL) research. The proposed studies must be designed to use the PCRC infrastructure and resources to accomplish their aims. Investigators from PCRC sites, and also those outside the network or collaborations across the two, will propose PCEOL studies that use the PCRC for methodological resources, access to any or all of the PCRC patient populations at multiple institutional sites, and PCEOL expertise of PCRC investigators unique to the network. The FOA will also assess the PCRC’s impact, enhanced efficiency, statistical power, ability to complete studies within timelines, and lower costs. As a result of this FOA, it is expected that collaborative, interdisciplinary research will be funded that demonstrates the value of the PCRC and will ultimately lead to long-term sustainability. NINR is interested in supporting PCEOL studies focused on 3 broad areas: (a) bio-behavioral research; (b) the impact of transitions along the palliative care spectrum; and (c) caregiving issues. Application budgets are limited to $350K in direct costs in any one year of the four-year maximum project period.

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.

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.
Prevention and Treatment of Obesity, Diabetes, and Chronic Kidney Disease in Military Populations (R01)

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


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

Solicitation number: PAR-12-048

The goal of this FOA is to encourage Research Project Grant (R01) applications on prevention and treatment of obesity, diabetes, and chronic kidney disease in military personnel (active duty and retired) and their families. The maximum project period is five years.

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.

NIDCR Small Grant Program for New Investigators (R03)

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


Contact: Amanda Melillo, 301/594-9718, amanda.melillo@nih.gov

Solicitation number: PAR-13-348

This program supports basic and clinical research by scientists who are in the early stages of establishing an independent research career in oral, dental, and craniofacial research. This R03 grant mechanism supports pilot or feasibility studies and developmental research projects with the intention of obtaining sufficient preliminary data for a subsequent Investigator-initiated Research Project Grant (R01) application. A budget for direct costs of up to $150K over a two-year period may be requested.

Ethical, Legal, and Social Implications of Genomic Research Small Research Grant Program (R03)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-11-249

This FOA encourages Small Research Grant (R03) applications to study the ethical, legal and social implications (ELSI) of human genome research. These applications should be for small, self-contained research projects. Of particular interest are projects that propose focused legal, economic, philosophical or historical analyses of new or emerging issues. Application budgets are limited to no more than $50K in direct costs per year for up to two years. This FOA runs in parallel with FOAs of identical scientific scope: PA-11-250, which utilizes the R01 mechanism, and PA-11-251, which utilizes the R21 mechanism.
Psychosocial & Behavioral Interventions and Services Research in Autism Spectrum Disorders (R34)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-11-283

The purpose of this FOA is to facilitate exploratory research on psychosocial/behavioral treatments and innovative services research for autism spectrum disorders, including the development of instruments to evaluate the impact of interventions on core features of autism spectrum disorders, and comorbid symptomatology. It is intended to encourage research on: 1) the development and/or pilot testing of new or adapted interventions or instruments, 2) pilot testing novel interventions in preparation for larger efficacy trials, or 3) innovative services research directions that require preliminary testing or development. Direct costs are limited to $450K over a maximum project period of three years, with no more than $225K in direct costs allowed in any single year.

Pilot Studies in Pancreatic Cancer (R21)

National Institutes of Health, National Cancer Institute (NCI)


Contact: Varies with research interest

Solicitation number: PA-11-297

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

Scalable Assays for Unbiased In Vitro Analysis of Neurobiological Function (R21 & R33)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-11-319

This FOA encourages research grant applications to develop novel, robust analytical platforms using in vitro assays to reveal changes in neuronal and/or glial function. The goal is to adapt state-of-the-art measures of basic cellular processes or molecular events that are key mediators of nervous system function with the intent to probe mechanisms and/or perturbations in an unbiased and efficient manner. The novel assay platforms would provide opportunities to measure neurobiological endpoints and build a pipeline to be used in the context of target identification and drug discovery. The R21 phase may not exceed $275K over a maximum of two years in direct costs, with no more than $200K in direct costs in any single year. Direct costs for the R33 phase must be less than $500K per year for up to two years.

Imaging - Science Track Award for Research Transition (I-START) [R03]

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


Contact: Steven Grant, 301/443-4877, sgrant@nida.nih.gov

Solicitation number: PAR-12-066

This FOA encourages Small Research Grant (R03) applications to facilitate the entry of investigators to the area of neuroimaging, including both new investigators and established investigators seeking to adopt neuroimaging methodologies in their research programs. The R03 is intended to support small research projects that can be carried out in a short period of time with limited resources. Budgets for direct costs of up to $150K over a period of one year only may be requested.
NIOSH Small Research Program (R03)
National Institutes of Health, National Institute for Occupational Safety and Health (NIOSH)
Contact: Linda Frederick, 404/498-2557, ljf3@cdc.gov
Solicitation number: PAR-12-200
The purpose of this grant program is to develop an understanding of the risks and conditions associated with occupational diseases and injuries, to explore methods for reducing risks and for preventing or minimizing exposure to hazardous conditions in the workplace, and to translate significant scientific findings into prevention practices and products that will effectively reduce work-related illnesses and injuries. The combined budget for direct costs for the two-year project period may not exceed $100K. No more than $50K in direct costs may be requested in any single year.

NIOSH Exploratory/Developmental Grant Program (R21)
National Institutes of Health, National Institute for Occupational Safety and Health (NIOSH)
Contact: Linda Frederick, 404/498-2557, ljf3@cdc.gov
Solicitation number: PAR-12-252
The purpose of this grant program is to develop an understanding of the risks and conditions associated with occupational diseases and injuries, to explore methods for reducing risks and for preventing or minimizing exposure to hazardous conditions in the workplace, and to translate significant scientific findings into prevention practices and products that will effectively reduce work-related illnesses and injuries. The combined budget for direct costs for the two-year project period may not exceed $275K. No more than $200K in direct costs may be requested in any single year.

Systems Science and Health in the Behavioral and Social Sciences (R21)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-11-315
This FOA encourages Research Project Grant (R21) applications from institutions/organizations 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 direct costs for the two-year project period may not exceed $275K. No more than $200K may be requested in any single year. This FOA runs in parallel with a FOA of identical scientific scope, PAR-11-314, that utilizes the R01 Research Project Grant mechanism.
Fatigability, Activity Limitations, and Bioenergetics in Aging (R03)
National Institutes of Health, National Institute on Aging (NIA)
Contact: Varies with research interest
Solicitation number: PA-12-226
This FOA invites applications proposing to 1) investigate the role of specific bioenergetic factors in increased fatigability, reduced activity, and diminished sense of well-being in older persons; 2) test the effects of interventions targeted at such factors on performance capabilities, functional status, and other outcomes that relate to quality of life; or 3) develop and evaluate measures of fatigability applicable for observational and/or interventional studies. The maximum project period is two years. The combined budget for direct costs for the two year project period may not exceed $100K with no more than $50K in direct costs in any single year. This FOA runs in parallel with FOAs of identical scientific scope: PA-12-225, that utilizes the R21 Exploratory/Developmental Research Grant Award, and PA-12-227, that utilizes the R01 Research Project Grant.

Development of Mathematical Cognition and Reasoning and the Prevention of Math Learning Disabilities (R03)
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
Contact: Kathy Koepke, 301/435-6855, KMK@nih.gov
Solicitation number: PA-12-247
This FOA is intended to stimulate innovative, multidisciplinary research on the cognitive, neuroplasticity, genetic and environmental factors involved in math learning and learning disabilities. The overall objectives of this FOA include: 1) identify the critical (necessary and sufficient) biological, cognitive, and behavioral components and dynamic developmental sequence, including sensitive periods, necessary for the normal development of mathematical cognitive abilities and reasoning (e.g., counting, arithmetic, geometry, algebra), including early and normative milestones; 2) identify the biological, cognitive, environmental, and behavioral factors that contribute to and/or restrict the developmental plasticity of mathematical cognitive abilities, and may be used to improve prevention, identification, and classification of children with MLD (including theoretically-grounded approaches to identification and classification); 3) develop and test well-defined, evidence-based prevention interventions for populations at high risk for mathematics learning disability such as children raised in poverty, and those with predisposing genetic or medical conditions (e.g., velocardiofacial syndrome, deafness, and iatrogenic conditions such as chemotherapy-associated math learning deficits), where the intervention’s effectiveness (i.e., the efficacy under "real world" adoption conditions) can be shown to be both sustainable and generalizable; and 4) develop and test well-defined, evidence-based remediating or treatment interventions, the effectiveness of which can be demonstrated to be both sustainable and generalizable. Such foundational knowledge should ultimately improve math instruction, both for typically developing and math challenged or disabled children. Application budgets are limited to $50K in direct costs per year for a maximum of two years. This FOA runs in parallel with FOAs of identical scientific scope: PA-12-248, which utilizes the R01 Research Project Grant mechanism and PA-12-246, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Behavioral Science Track Award for Rapid Transition (B START) (R03)
National Institutes of Health, National Institute on Drug Abuse (NIDA)
Contact: Paul Schnur, 301/443-1887, pschnur@nida.nih.gov
Solicitation number: PAR-12-251
This FOA will use the NIH Small Research Grant (R03) award mechanism and seeks to facilitate the entry of beginning investigators into the field of behavioral science research related to drug abuse. To be appropriate for a B/START award, research must be primarily focused on behavioral processes and research questions. The project period is not to exceed one year and a budget for direct costs of up to three $25K modules, or $75K, may be requested.
**Exploratory & Developmental Bioengineering Research Grants (EBRG) [R21]**

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-12-284

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

**Selected Topics in Transfusion Medicine (R21)**

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


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

Solicitation number: PAR-13-025

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

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

National Institutes of Health, National Eye Institute (NEI)


Contact: Varies with research interest

Solicitation number: PAR-13-035

This FOA encourages applications from institutions/organizations that propose to conduct secondary data analyses utilizing existing database resources. Applications may be related to, but must be distinct from, the specific aims of the original data collection. The NEI supports an extensive portfolio of clinical trials and large-scale epidemiologic research projects, wherein numerous data collection activities are required to meet each project’s specific aims. The resultant wealth of data generated by these studies often provides unique, cost-effective opportunities to investigate additional research questions or develop new analytical approaches secondary to a project’s originally-intended purpose. Data are not limited to those collected under NEI support but such data are of the highest programmatic interest. The R21 may be used to develop new statistical methodologies or to test hypotheses using existing data, but this FOA may not be used to support the collection of new data. The combined budget for direct costs for the two-year project period may not exceed $275K. No more than $200K may be requested in any single year. The maximum project period is two years.
**NIDCR Small Research Grants for Data Analysis and Statistical Methodology Applied to Genome-wide Data (R03)**

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


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

Solicitation number:  PAR-13-044

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

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

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


Contact: Mahua Mukhopadhyay, 301/435-6886, mukhopam@mail.nih.gov

Solicitation number:  PAR-13-095

This FOA promotes in vivo studies of stem cells in animal models and in humans (if applicable) to better understand how stem cells function within developing or damaged tissues. The areas of emphasis would include systematically profiling and cataloging changes at genetic and epigenetic levels that take place in stem cells and their microenvironment. The purpose is to gain in-depth knowledge of the mechanisms involved in: progressive differentiation of Embryonic Stem Cells (ESCs) into embryonic lineages, progenitor cells and specialized cell types; adult stem cells/progenitor cells during tissue regeneration and wound healing; and Induced Pluripotent Stem Cells (iPSCs) at the site of injury during stem cell therapy. The research proposed under this announcement can explore approaches and concepts new to this area, development of new technologies, or initial research and development of data upon which significant future research may be built. Direct costs are limited to $275K over a two-year period, with no more than $200K in direct costs allowed in any single year. This FOA runs in parallel with another FOA of identical scientific scope, PAR-13-094, which utilizes the R01 Research Project Grant mechanism.

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**Indo-U.S. Vaccine Action Program (VAP) Small Research Grant Program (R03)**

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


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

Solicitation number:  PA-13-179

Applications are encouraged from organizations/institutions that propose to conduct vaccine-related research through U.S.-Indo collaborations on the following: dengue, influenza (including avian influenza), malaria, enteric diseases, HIV/AIDS, and tuberculosis. Basic, translational, clinical, or epidemiological vaccine research may be proposed. Budgets for direct costs of up to $50K per year and a project duration of up to two years may be requested for a maximum of $100K direct costs over a two-year project period.
The Role of Extracellular RNA in Mediating the Health Effects of Alcohol (R21)

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


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

Solicitation number: PA-13-197

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

Aging Research Dissertation Awards to Increase Diversity (R36)

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


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

Solicitation number: PAR-13-152

Substantial evidence indicates that biomedical research, including research on aging in particular, will benefit from broader representation of individuals from diverse ethnic, cultural, and socioeconomic backgrounds. As part of NIA’s Health Disparities Strategic Plan, this Funding Opportunity Announcement announces the availability of dissertation awards (R36) to support individuals whose advancement in research will help ensure that a diverse pool of highly trained scientists is available in scientific disciplines relevant to NIA's strategic priorities to address NIA’s mission. That mission includes research on the basic biology of aging, on chronic, disabling, and degenerative diseases of aging, with a particular focus on Alzheimer’s Disease, on multiple morbidities, on individual behavioral and social changes with aging, on caregiving, on longevity, and on the consequences for society of an aging population. Total allowable costs per year are the current Fiscal Year National Research Service Award (NRSA) predoctoral stipend level and up to $20K for additional expenses. Support will be provided for up to two years.
NIH Small Research Grant Program (Parent R03)

The National Institutes of Health (NIH) Investigator-Initiated Small Research Grant (R03) funding opportunity supports small research projects that can be carried out in a short period of time with limited resources. Examples of the types of projects that participating NIH Institutes and Centers (ICs) support with the R03 activity code include, but are not limited to, the following: 1) Pilot or feasibility studies; 2) Secondary analysis of existing data; 3) Small, self-contained research projects; 4) Development of research methodology; and 5) Development of new research technology. R03 grant applications are not expected to have the same level of detail or extensive discussion found in an R01 application. Accordingly, reviewers should evaluate the conceptual framework and general approach to the problem, placing less emphasis on methodological details and certain indicators traditionally used in evaluating the scientific merit of R01 applications including supportive preliminary data. Appropriate justification for the proposed work can be provided through literature citations, data from other sources, or from investigator-generated data. Preliminary data are not required, particularly in applications proposing pilot or feasibility studies. Applicants are encouraged to consult the IC Contacts and Special Interests website to determine if an investigator-initiated R03 application is appropriate. Additionally, applicants are strongly encouraged to consult with the Scientific/Research Contact at the appropriate IC about their proposed research project during the concept development stage of the application. The combined budget for direct costs for the two-year project period may not exceed $100K, and no more than $50K in direct costs may be requested in any single year.

NIH Exploratory & Developmental Research Grant Program (Parent R21)

The Exploratory/Developmental Grant (R21) funding opportunity supports the development of new research activities in categorical program areas. The R21 activity code is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual stages of these projects. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel techniques, agents, methodologies, models, or applications that could have a major impact on a field of biomedical, behavioral, or clinical research. Applications for R21 awards should describe projects distinct from those supported through the traditional R01 activity code. For example, long-term projects, or projects designed to increase knowledge in a well-established area, will not be considered for R21 awards. Projects of limited cost or scope that use widely accepted approaches and methods within well-established fields are better suited for the R03 small grant activity code. The combined budget for direct costs for the two-year project period may not exceed $275K, and no more than $200K in direct costs may be requested in any single year.

The Role of the Cytoskeleton in Cellular Aging (R21 & R33)

The purpose of this FOA is to stimulate the development of innovative research strategies aimed at increasing the understanding of the molecular and cellular changes in the cytoskeleton that occur during the aging process. Applications considering the effect of age on factors such as cytoskeleton structure and function, the impact of the cytoskeleton on intracellular organelle interactions, and signaling or regulatory molecules controlling cellular architecture are encouraged. There is also interest in studying the role of the cytoskeleton in nuclear-cytoplasmic communications, and in spatio-temporal relationships during the aging process and in age-related diseases. Total direct costs are limited to $275K over a two-year period, with a maximum of $200K in direct costs allowed in any single year. The R33 award phase must be less than $500K in direct cost per year and cannot exceed three years.
Neuroscience Research on Drug Abuse

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


Contact: Nancy Pilotte, 301/435-1317, npilotte@nih.gov

Solicitation number: PA-10-270

This FOA encourages research grant R03 applications from institutions/organizations that are relevant to the understanding of the process(es) and neurobiological mechanisms underlying drug abuse and addiction. The R03 grant mechanism supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. This FOA encourages basic neurobiological studies in model systems as well as studies in normal humans and clinical populations. The topic of study may range from that of a single protein or gene, to that of the entire organism and include: 1) Genetic Approaches; 2) Cellular and Molecular Approaches; 3) Circuit-level Approaches; and 4) Behavioral Approaches to research. The R03 is intended to support small research projects that can be carried out in a short period of time with limited resources. Budgets for direct costs of up to $50K per year and a project duration of up to two years may be requested for a maximum of $100K direct costs over a two-year project period.

Early Career Award in Chemistry of Drug Abuse and Addiction (ECHEM)

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


Contact: Kristopher Bough, 301/443-9800, boughk@mail.nih.gov

Solicitation number: PAR-13-350

This FOA seeks to facilitate the entry of new-to-NIH investigators into basic chemistry research applied to drug abuse and addiction. There are four research areas of particular interest for this FOA as follows: 1) Development of new and innovative molecular probes/ligands; 2) The development of novel ligands for use in neuroimaging studies of addiction are sought; 3) The application of newer areas of research, and their associated technologies (e.g., genomics, transcriptomics, etc.); and 4) Research projects aimed at isolating, identifying, purifying and characterizing new lipid ligands, receptors, transporters, enzymes, etc. for the cannabinoid, vanilloid or other lipid-based targets. For the R21 award, direct costs are limited to $250K over a two-year period, with a maximum of $200K allowed in any single year. The R33 award will be limited to $250K in direct costs per year; the total project period may not exceed four years.

Research on the Health Determinants and Consequences of Violence and its Prevention, Particularly Firearm Violence

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


Contact: Varies with research interest

Solicitation number: PA-13-368

This FOA spans across the missions of several NIH Institutes and Centers and Offices, and includes basic neuroscience and basic behavioral research, clinical and translational studies, intervention development at the individual, family and community level, efficacy trials of interventions based on evidence from basic and translational studies, and research to identify the best ways to disseminate and implement efficacious and evidence-based interventions in real-world settings. While this FOA covers all of the areas mentioned above, particular consideration will be given to applications that propose studies of the intersection that focus on the various types of violence (homicide, suicide, youth and gang-related, intimate partner) and firearms. A maximum of $100K over two years in four modules of $25K each may be requested. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-363 and PA-13-369, that utilize the R01 Research Project Grant and R21 Exploratory/Developmental Grant mechanisms, respectively.
Translational Research for the Development of Novel Interventions for Mental Disorders (R21 & R33)

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


Contact: Ann Wagner, 301/443-5944, awagner@mail.nih.gov

Solicitation number: PAR-11-177

This FOA encourages Exploratory/Developmental Phased Innovation (R21/R33) grant applications to speed the translation of emerging findings on the neuroscience of mental disorders into novel intervention approaches that will ultimately reduce symptoms and/or restore function. This FOA provides support for up to two years (R21 phase) for preliminary, proof-of-principle studies in human participants, followed by up to 3 years of support (R33 phase) for pilot studies to assess the implementation of the intervention, and evaluate the feasibility of conducting a larger trial to assess the efficacy of the intervention. A range of non-pharmacologic treatment approaches will be accepted, including those based on neurophysiological, cognitive, affective, and/or social neuroscience models, basic behavioral science, and neurodevelopmental models. Applications submitted in response to this FOA must involve novel treatment targets, and/or novel and highly innovative approaches to engage and modify known targets. The R21 phase may not exceed two years or $325K in direct costs, with no more than $225K in direct costs in any single year of the R21 phase. The R33 phase may not exceed three years or $525K in direct costs, with no more than $250K in direct costs in any single year of the R33 phase.

Nutrigenetics and Nutrigenomics Approaches for Nutrition Research (R01)

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


Contact: Padma Maruvada, 301/594-8884, padma.maruvada@nih.gov

Solicitation number: PAR-13-375

The main objective of this FOA is to promote application of nutrigenetics and/or nutrigenomics approaches to nutrition research through collaborative interaction among nutrition researchers and experts in omics technologies. Examples of the application of nutrigenetics and nutrigenomics approaches to nutrition research include but are not limited to: 1) Impact of genetic polymorphisms on nutrient absorption, transport and metabolism; 2) Impact of nutrients and dietary components on gene expression that affect nutrient absorption, transport and metabolism in target tissues and relevant bio-specimens in health and diseases relevant to NIDDK; 3) Mechanisms by which specific nutrients/dietary components modulate intestinal physiology (transporters), barrier function, inflammation, and/or microbiome composition; 4) Mechanisms by which nutrient sensing in the gut is transduced to extra-intestinal organs and tissues. The maximum duration of a project is five years.

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.
Secondary Dataset Analyses in Heart, Lung, and Blood Diseases and Sleep Disorders (R21)
National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)
Contact: Suzanne Goldberg, 301/435-0532, goldbergsh@mail.nih.gov
Solicitation number: PAR-13-009

The goal of this initiative is to support early-stage exploratory studies through analyses of existing datasets. This program will enable investigators to pursue innovative projects for which preliminary data are limited, and assist in demonstrating concept validity expected in NIH research project (R01) review. It is intended to generate new research hypotheses from previously collected data. The new hypotheses must be distinct from those supported through the original research. All data analyses must involve patient oriented or epidemiologic research designed to elucidate the etiology, incidence, prevalence, natural history, pathophysiology, prevention, or response to therapies for heart, lung, and blood and sleep disorders. Direct costs are limited to $150K over an R21 two-year period, with no more than $75K in direct costs allowed in any single year.

Opportunities for Collaborative Research at the NIH Clinical Center (U01)
National Institutes of Health, Cross-Institute
Contact:Varies with research interest
Solicitation number: PAR-13-029

The goal of this FOA is to support collaborative translational research projects aligned with NIH efforts to enhance the translation of basic biological discoveries into clinical applications that improve health. This opportunity is specifically to promote partnerships between NIH intramural investigators (e.g., those conducting research within the labs and clinics of the NIH) and extramural investigators (e.g., those conducting research in labs outside the NIH). It will provide support for extramural investigators to take advantage of the unique research opportunities available at the NIH Clinical Center by conducting research projects in collaboration with NIH intramural investigators. While translating basic research into clinical practice is increasingly difficult, time consuming, and expensive, translational research is crucially important in converting basic scientific discoveries into new diagnostics and therapies for patients. As such, this FOA intends to broaden and strengthen translational research collaborations between basic and clinical researchers both within and outside NIH to accelerate and enhance translational science. Teams will have at least one intramural and one extramural investigator. This program will provide access for external researchers to the NIH Clinical Center (CC), and will thus leverage the diverse CC resources, expertise, and infrastructure available to test promising laboratory- and animal-based discoveries with potential implications for disease diagnosis, treatment and prevention. This FOA encourages high quality science demonstrating the potential to result in understanding an important disease process or lead to new therapeutic interventions, diagnostics, or prevention strategies within the research interests and priorities of the participating NIH Institutes/Centers. The maximum amount available per application is $500K direct costs per year for a period of up to three years.

Genomic Underpinnings of Response to Rehabilitation Interventions (R01)
National Institutes of Health
Contact: Lois Tully, 301/594-5968, tullyla@mail.nih.gov
Solicitation number: PAR-14-011

This FOA seeks research to enhance the understanding of the role of genomic variants and mechanisms in the response to rehabilitation interventions aimed at maintaining, improving, or restoring functional abilities (e.g., activities of daily living) and quality of life in individuals with functional impairments or disabilities resulting from injury, aging, or chronic illness. This research may be carried out by 1) elucidating genomic variants or mechanisms associated with outcomes in individuals receiving rehabilitation interventions, or 2) developing and testing genomics-based rehabilitation interventions, including interventions that promote symptom or self-management as part of a strategy to achieve improved functional abilities. Interdisciplinary collaborations that include nurse scientists in the project team are strongly encouraged. Additionally, applicants should consider engaging the resources and expertise of nearby or otherwise available Clinical and Translational Science Award grant sites (CTSAs) and/or federally funded research centers where possible. Application budgets are limited to $350K in direct costs in any year of the maximum five-year project period, not including consortium F&A costs.
Strategic Alliances for Medications Development to Treat Substance Use Disorders (R01)

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


Contact: Jamie Biswas, 301/443-8096, jb168r@nih.gov

Solicitation number: PAR-13-334

The purpose of this FOA is to help leverage the strengths of two or more organizations toward a common goal of medications development. Project aims can range from the development of a new molecular entity to the expansion of an existing medications’ clinical indication(s), but each project should have a defined entry and exit point with the objective of advancement in the approval process. It is hoped that support for these collaborations will accelerate the rate of medications development for Substance Use Disorders. Budgets for direct costs may be up to $2M per year for a maximum of three years.

Using Social Media to Understand and Address Substance Use and Addiction (R01)

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


Contact: Wen-ying Chou, 240/276-6954, chouws@mail.nih.gov

Solicitation number: RFA-CA-14-008

This FOA is part of a trans-NIH initiative known as Collaborative Research on Addiction (CRAN). The goal of this FOA is to inspire and support research projects investigating the role of social media in risk behaviors associated with the use and abuse of alcohol, tobacco, and other drugs (hereafter referred to as "ATOD") and projects using social media to ameliorate such behaviors. Each research project proposed in response to this FOA must be focused on one of the two distinct areas: 1) observational research using social media interactions as surveillance tools to aid in the understanding of the epidemiology, risk factors, attitudes, and behaviors associated with ATOD use and addiction, or 2) intervention research measuring the reach, engagement, and behavioral and health impact of social media-based interventions for the screening, prevention, and treatment, of ATOD use and addiction. Original research preliminary data are not required but all projects are expected to be supported by a strong rationale that is based on integrating to the extent possible the available relevant information from various sources. In addition to addressing a relevant scientific area, all projects proposed in response to this FOA need to focus also on advancing research methodologies suitable for the specific context of the project proposed. Examples of methodological aspects that are deemed particularly relevant include (but are not limited to): 1) Natural language processing techniques for mining and analyzing online content; 2) Methods for analyzing the spatial and temporal dimensions of social media interactions; 3) Data visualization methods and visual analytic tools; and 4) Network- and sentiment analyses. Application budgets are generally expected to range from $250K to $400K in direct costs per year over a three-year maximum project period. This FOA runs in parallel with a FOA of identical scientific scope, RFA-CA-14-009, that utilizes the R21 Exploratory/Developmental Grant mechanism.

NIDCD Small Grant Program (R03)

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


Contact: Varies with research interest

Solicitation number: PAR-13-057

This program is intended to support basic and clinical research of scientists who are beginning to establish an independent research career. The research must be focused on one or more of the areas within the mission of the NIDCD: hearing, balance/vestibular, smell, taste, voice, speech, or language. The R03 grant mechanism supports different types of projects including secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. Applications may be submitted for up to $100K in direct costs per year for up to three years.
Female Contraceptive Development Program (U01)

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


Contact: H. Trent MacKay, 301/435-6988, mackayt@mail.nih.gov

Solicitation number: RFA-HD-14-024

This FOA invites applications for the development of novel female contraceptives that are specifically targeted to the processes of follicular development, ovulation or fertilization. This program aims to support a wide range of research, both basic and applied, with the goal of developing clinically useful female contraceptive products. Examples of possible research projects and area of research may include, but are not limited to: 1) Small molecule lead discovery through screening targeted and natural product compound libraries on validated female contraceptive targets; 2) Screening non-traditional sources of natural products on validated female contraceptive targets; and 3) Medicinal chemistry component in support of drug design and synthesis on validated female contraceptive targets. Applicants may request up to $250K in direct costs per year.

Evaluating Natural Experiments in Healthcare to Improve Diabetes Prevention and Treatment (R18)

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


Contact: Varies with research interest

Solicitation number: PAR-13-365

The purpose of this FOA is to support research to evaluate large scale policies or programs related to healthcare delivery that are expected to influence diabetes prevention and care. This FOA is not intended to support the initiation and delivery of new policies or programs. Research support is for the evaluation of the effectiveness of healthcare programs and/or policies implemented independent of NIH grant funding. The goal is to support research that meaningfully informs clinical practice and health policy related to prevention or management of diabetes. Awards covering total project direct costs should generally be less than $500K over a maximum five-year project period.

Pragmatic Research in Healthcare Settings to Improve Diabetes Prevention and Care

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


Contact: Varies with research interest

Solicitation number: PAR-13-366

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

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


Contact: Varies with research interest

Solicitation number: PAR-13-367

The purpose of this FOA is to support research to develop and pilot test approaches to improve diabetes treatment and prevention in existing healthcare settings. Applications should pilot test practical and potentially sustainable strategies, delivered in routine clinical care settings, to improve processes of care and health outcomes of individuals who are at risk for or have diabetes. The goal is that, if the pilot study shows promise, the data from the R34 will be used to support a full scale trial that could improve routine clinical practice and inform policy in representative healthcare settings. Direct costs of up to $150K per year are allowed over a maximum two-year project period. This FOA runs in parallel with a FOA of identical scientific scope, PAR-13-366, that utilizes the R18 Research Demonstration and Disseminations Projects mechanism.

Biomarkers for Diabetes Complications - Non-Invasive Measures in the Eye (DP3)

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


Contact: Teresa Jones, 301/435-2996, jonester@mail.nih.gov

Solicitation number: RFA-DK-13-027

This FOA will support research on the development of biomarkers for the complications of type 1 diabetes that will use minimally or non-invasive measures of blood vessels and nerves in the eye. A critical obstacle for preventing and treating diabetes complications is the paucity of both biomarkers that can detect changes in blood vessels and nerves before clinical signs develop and surrogate end-points that can measure early responses to an intervention. Given the accessibility of the blood vessels and nerves in the eye for visualization, this FOA invites applications for research using the eye to visualize the development of diabetes complications in the eye and other tissues, such as the kidney, brain, heart and peripheral nerves. Budgets are limited to $1M in direct costs for the project period of three years.

Role of Environmental Chemical Exposures in the Development of Obesity, Type 2 Diabetes & Metabolic Syndrome

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-12-184

This FOA encourages grant applications to understand the role of environmental chemical exposures in the development of obesity, type 2 diabetes and/or metabolic syndrome. Applications must link an environmental exposure to the increased incidence of weight gain, type 2 diabetes and aspects of metabolic syndrome in animal models or human studies. While any exposure window is acceptable it is anticipated that the most sensitive time for exposures to affect the disease outcomes will be during development e.g., in utero and/or neonatal or early childhood. For human studies developmental exposures (in utero and early childhood) should be linked to early biomarkers of disease onset. Animal studies should focus on identifying new environmental chemicals that alter weight gain, insulin sensitivity and glucose tolerance and altered lipid metabolism indicative of obesity, type 2 diabetes and/or metabolic syndrome. Application budgets are limited to $275K in direct costs over two years, with no more than $200K in direct costs allowed in any single year. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-185, which utilizes the R01 Research Project Grant mechanism.
Small Grants Program for Cancer Epidemiology (R03)
National Institutes of Health, National Cancer Institute (NCI)

Contact: Mukesh Verma, 301/594-7344, vermam@mail.nih.gov
Solicitation number: PAR-12-039

This FOA encourages the submission of Small Research Grant (R03) applications for research on cancer etiology and epidemiology. The overarching goal of this FOA is to provide support for pilot projects, testing of new techniques, secondary analyses of existing data, development and validation of measurement methods, linkage of genetic polymorphisms with other variables related to cancer risk, and development of innovative projects for more comprehensive research in cancer etiology and epidemiology. Applicants may request a maximum budget of $50K per year for up to two years.

NIAMS Small Grant Program for New Investigators (R03)
National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Contact: Su-Yau Mao, 301/594-5032, maos2@mail.nih.gov
Solicitation number: PAR-12-045

NIAMS is seeking small grant (R03) applications to stimulate and facilitate the entry of promising new investigators into research on arthritis and musculoskeletal and skin diseases and injuries. This FOA will provide support for pilot research that is likely to lead to a subsequent individual research project grant (R01). Clinical trials of any phase will not be supported by this FOA.

NIH Summer Research Experience Programs (R25)
National Institutes of Health

Contact: Varies with research interest
Solicitation number: PAR-13-104

The purpose of this FOA is to provide a high quality research experience for high school and college students and for science teachers during the summer academic break. The NIH expects that such programs will: help attract young students to careers in science; provide opportunities for college students to gain valuable research experience to help prepare them for graduate school; and enhance the skills of science teachers and enable them to more effectively communicate the nature of the scientific process to their students. The programs would also contribute to enhancing overall science literacy. Summer Research Programs that expand and complement existing summer educational and training programs are encouraged. Budgets cannot exceed $100K direct costs per year for up to five years.

National Science Foundation (NSF)

Catalyzing New International Collaborations
National Science Foundation
Contact: R. Clive Woods, 703/292-8710, OISE-CNIC@nsf.gov
Solicitation number: NSF 13-605

This program supports the participation of U.S. researchers and students in activities intended to catalyze new international collaborations. NSF may consider proposals for collaborations with any country that is not explicitly proscribed by the Department of State. Activities can be in any field of science and engineering research and education supported by the NSF. The integration of research and education and of diversity into NSF programs, projects, and activities will be carefully considered. It is anticipated that approximately 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.
Earth Sciences Instrumentation and Facilities (EAR IF)

National Science Foundation, Geosciences (GEO)


Contact: Varies with research interest

Solicitation number: NSF 11-544

The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division. EAR/IF will consider proposals for: Development of New Instrumentation, Analytical Techniques, or Software; Support of National or Regional Multi-User Facilities; or Support for Early Career Investigators. Proposals for Acquisition or Upgrade of Research Equipment will not be accepted in the Fiscal Year 2012 competition.

Grant Opportunities for Academic Liaison with Industry (GOALI)

National Science Foundation, Cross-Directorates


Contact: Varies with research interest

Solicitation number: NSF 12-513

GOALI promotes university-industry partnerships by making project funds or fellowships/traineeships available to support an eclectic mix of industry-university linkages. Special interest is focused on affording the opportunity for: Faculty, postdoctoral fellows, and students to conduct research and gain experience in an industrial setting; Industrial scientists and engineers to bring industry’s perspective and integrative skills to academe; and Interdisciplinary university-industry teams to conduct research projects. Each directorate handles GOALI requests differently. Proposers must contact a specific program director in the disciplinary area of the proposed research for guidance on proposal submission.

NSF-FDA Scholar-in-Residence at FDA

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


Contact: Leon Esterowitz, 703/292-7942, lesterow@nsf.gov

Solicitation number: NSF 10-533

This program comprises an interagency partnership for the investigation of scientific and engineering issues concerning emerging trends in medical device technology. This partnership is designed to enable investigators in science, engineering, and mathematics to develop research collaborations within the intramural research environment at the FDA. This solicitation features four flexible mechanisms for support of research at the FDA: 1) Faculty at FDA; 2) Graduate Student Fellowships; 3) Postdoctoral Fellowships; and 4) Undergraduate Student Research Experiences. Approximately three to ten awards will be given, with an estimated program budget of $500K.

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

National Science Foundation, Cross-Directorates


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

Solicitation number: NSF 12-584

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

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


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

Solicitation number: NSF 08-523

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

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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.

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

National Science Foundation


Contact: Vasant Honavar, vhonavar@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.
Networking Technology and Systems (NeTS - JUNO)

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

Contact: Joseph Lyles, 703/292-8950, jlyles@nsf.gov
Solicitation number: NSF 13-574

Cyber-Physical Systems (CPS)

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)

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.
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.

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.

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.
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 at 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.
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.
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.

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.
**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.

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**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.

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**Robert Noyce Teacher Scholarship Program**

National Science Foundation, Education and Human Resources (EHR)


Contact: Joan Prival, 703/292-4635, jprival@nsf.gov

Solicitation number: NSF 14-508

This program seeks to encourage talented science, technology, engineering, and mathematics majors and professionals to become K-12 mathematics and science teachers. The Noyce Scholarship Track provides funds to institutions of higher education to support scholarships, stipends, and academic programs for undergraduate STEM majors and post-baccalaureate students holding STEM degrees who earn a teaching credential and commit to teaching in high-need K-12 school districts. The NSF Teaching Fellowship/Master Teaching Fellowship Track supports STEM professionals who enroll as NSF Teaching Fellows in master’s degree programs leading to teacher certification by providing academic courses, professional development, and salary supplements while they are fulfilling a four-year teaching commitment in a high need school district. This track also supports the development of NSF Master Teaching Fellows by providing professional development and salary supplements for exemplary mathematics and science teachers to become Master Teachers in high-need school districts. Capacity Building Projects support the development of new programs and activities to increase the capacity for institutions to provide innovative teacher preparation programs that enable increasing numbers of STEM majors and STEM professionals to become effective K-12 mathematics and science teachers and to develop the capacity to prepare Master science and mathematics teachers. Cost sharing is required.
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.

Emerging Frontiers in Research and Innovation (EFRI): Two-dimensional Atomic-layer Research and Engineering (2-DARE)

National Science Foundation


Contact: Varies

Solicitation number: NSF 13-583

EFRI seeks proposals with transformative ideas that represent an opportunity for a significant shift in fundamental engineering knowledge with a strong potential for long term impact on national needs or a grand challenge. Proposals will be considered that aim to investigate emerging frontiers in the following research area: Two-Dimensional Atomic-layer Research and Engineering (2-DARE). Interest within other Federal agencies, specifically Air Force Office of Scientific Research (AFOSR), may lead to an interagency effort. Submitted proposals may be shared with interested representatives from AFOSR. Each project team may receive support of up to a total of $2M over four years. EFRI plans to repeat 2-DARE as a topic in the FY-2015 solicitation, pending the availability of funds.

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

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

CyberCorps® - Scholarship for Service (SFS)

This FOA seeks proposals that address cybersecurity education and workforce development. The Scholarship Track provides funding to award scholarships to students in cybersecurity. In return for their scholarships, recipients will work after graduation for a Federal, State, Local, or Tribal Government organization in a position related to cybersecurity for a period equal to the length of the scholarship. The Capacity Track seeks innovative proposals leading to an increase in the ability of the United States higher education enterprise to produce cybersecurity professionals. Proposals focusing on capacity building should contribute to the expansion of existing educational opportunities and resources in cybersecurity.

Research on Gender in Science and Engineering (GSE)

The GSE program supports efforts to understand and address gender-based differences in science, technology, engineering, and mathematics education and workforce participation through research projects. Behavioral, cognitive, affective, learning, and social differences may be investigated using methods of sociology, psychology, anthropology, economics, statistics, and other social and behavioral science and education disciplines. Research projects investigate gender-based factors that impact learning and choice in STEM education and the workforce; or study societal, formal and informal educational systems' interaction with individuals that encourage or discourage interest and persistence in study or careers in certain STEM fields along gender lines. Diffusion of Research-Based Innovation projects provide a mechanism for engaging a wider audience of practitioners with research findings and strategies for changing educational practice relative to gender issues. There are three types of Diffusion awards: Pilot, Scale Up, and Dissemination. Extension Services create a cadre of extension service agents through training and consulting services to inform educators and other practitioners about and enable them to adopt and embed proven gender-inclusive policies and practices.
Gen-3 Engineering Research Centers (ERC)

National Science Foundation, Engineering (ENG)


Contact: Lynn Preston, 703/292-5358, lpreston@nsf.gov

Solicitation number: NSF 13-560

The goal of this program is to create a culture in engineering research and education that integrates discovery with technological innovation to advance technology and produce graduates who will be creative U.S. innovators in a globally competitive economy. Proposals are solicited in two tracks: (1) Open Topic ERCs, where the PI's are free to structure the engineered systems vision and research program without restrictions on the research content and (2) Nanosystems ERCs (NERCs), where the PIs are free to structure the engineered systems vision but the research program must include a substantial body of nanoscale fundamental research. The initial award is for five years, with year one start-up budgets of up to $3.25M. Subsequently, there would be year two budgets of up to $3.5M, year three budgets of up to $3.75M and years four and five budgets of up to $4M each, pending satisfactory annual performance and availability of funding. Pending performance and the outcome of two renewal reviews in the third and sixth year, support for years six through eight is projected to be up to $4M in each of those years; and support for year nine and ten would be phased down at a reduced level of 33% of the prior year's support to prepare the ERC for self sufficiency from ERC program support at the end of 10 years. Cost sharing is required.

Hazard Mitigation and Structural Engineering (HMSE)

National Science Foundation

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

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

Solicitation number: PD 13-1637

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

Engineering and Systems Design

National Science Foundation

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13340

Contact: Paul Collopy, 703/292-2241, pcollopy@nsf.gov

Solicitation number: PD-13-1464

This program supports descriptive and normative research leading to a theory of engineering design and an understanding of systems engineering. The program is focused on gaining an understanding of the basic processes and phenomena underlying a view of design where the system life-cycle context informs the identification and definition of preferences, analysis of alternatives, effective accommodation of uncertainty in decision-making, and the relationship between data, information, and knowledge in a digitally-supported environment. The program funds advances in a descriptive understanding of design and basic design theory that span multiple domains, such as the relationship of systems to the environment, the significance of manufacturability, and the range of complexity from small designed artifacts to large engineered systems.
Environmental Engineering

National Science Foundation

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029

Contact: Debra Reinhart, 703/292-5356, dreinhar@nsf.gov

Solicitation number: PD 14-1440

This program supports fundamental research and educational activities across the broad field of environmental engineering. The goal of this program is to encourage transformative research which applies scientific and engineering principles to avoid or minimize solid, liquid, and gaseous discharges, resulting from human activity, into land, inland and coastal waters, and air, while promoting resource and energy conservation and recovery. The program also fosters cutting-edge scientific research for identifying, evaluating, and monitoring the waste assimilative capacity of the natural environment and for removing or reducing contaminants from polluted air, water, and soils. Major areas of interest and activity in the program include: 1) Environmental engineering implications of energy and resource consumption; 2) Availability of high quality water supplies; and 3) Fate and transport of contaminants of emerging concern in air, water, and soils. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is $110K.

Fluid Dynamics

National Science Foundation

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13365

Contact: Geoffrey Prentice, 703/292-7031, gprentic@nsf.gov

Solicitation number: PD-14-1443

This program supports fundamental research and education on mechanisms and phenomena governing fluid flow. Proposed research should contribute to basic understanding; thus enabling the better design; predictability; efficiency; and control of systems that involve fluids. Encouraged are proposals that address innovative uses of fluids in materials development; manufacturing; biotechnology; nanotechnology; clinical diagnostics and drug delivery; sensor development and integration; energy and the environment. While the research should focus on fundamentals, a clear connection to potential application should be outlined. Current research themes include: 1) General Fluid Mechanics; 2) Flow of Complex Fluids; 3) Micro- Nano- Bio- Fluid Mechanics; 4) Turbulence and Flow Control; and 5) Instrumentation and Flow Diagnostics. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is $90K.

Environmental Sustainability

National Science Foundation

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027

Contact: Bruce Hamilton, 703/292-7066, bhamilto@nsf.gov

Solicitation number: PD-14-7643

This program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems. These systems provide ecological services vital for human survival. The long-term viability of natural capital is critical for many areas of human endeavor. Research in Environmental Sustainability typically considers long time horizons and may incorporate contributions from the social sciences and ethics. There are four principal general research areas which are supported, but others can be proposed by contacting the program director by email: 1) Industrial Ecology; 2) Green Engineering; 3) Ecological Engineering; and 4) Earth Systems Engineering. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is $100K.
Environmental Health and Safety of Nanotechnology

National Science Foundation
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030&org=CBET

Contact: Barbara Karn, 703/292-7949, bkarn@nsf.gov
Solicitation number: PD-14-1179

This program provides support to examine and mitigate the environmental effects of nanotechnologies. Fundamental research is sought to understand, evaluate, and lessen the impact of nanotechnology on the environment and biological systems. Current areas of support include: 1) Understanding, measuring, mitigating, and preventing adverse effects of nanotechnology on the environment and biological systems; 2) Nanotechnology environmental health and safety impacts; 3) Predictive methodology for the interaction of nanoparticles with the environment and with the human body, including predictive approaches for toxicity; 4) Fate and transport of engineered nanoparticles and their by-products; and 5) Risk assessment and management of the effect of nanomaterials in the environment. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is $100K.

Combustion, Fire, and Plasma Systems

National Science Foundation
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13366

Contact: Ruey-Hung Chen, 703/292-8695, ruchen@nsf.gov
Solicitation number: PD-14-1407

This program supports fundamental research and education relevant to these subjects. Among the broader societal impacts of the program are cleaner global and local environments, enhanced public safety, improved energy and homeland security, useful new materials, and more efficient manufacturing. Areas of interest include: 1) Basic Combustion Science; 2) Combustion Science related to Climate-change; 3) Fire Prevention; and 4) Plasma systems. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is $90K.

Thermal Transport Processes

National Science Foundation
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367

Contact: Sumanta Acharya, 703/292-7494, sacharya@nsf.gov
Solicitation number: PD-14-1406

This program supports engineering research aimed at gaining a basic understanding of the thermal transport phenomena at nano/micro and macro scales in: 1) cooling and heating of equipment and devices; 2) energy conversion, power generation and thermal energy storage and conservation; 3) the synthesis and processing of materials including advanced manufacturing; 4) the propulsion of air and land-based vehicles; and 5) thermal phenomena in biological systems. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is $100K.

Particulate and Multiphase Processes

National Science Foundation
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13364

Contact: Ashok Sangani, 703/292-7364, asangani@nsf.gov
Solicitation number: PD-14-1415

This program supports fundamental and applied research on phenomena governing particulate and multiphase processes, including flows of suspensions of particles, drops or bubbles, granular and granular-fluid flows, flow behavior of micro or nano-structured fluids, aerosol science and technology, and self- and directed-assembly processes involving particulates. Innovative research is sought that contributes to improving the basic understanding, design, predictability, efficiency, and control of particulate and multiphase processes with particular emphasis on: novel manufacturing techniques, multiphase systems of relevance to energy harvesting, multiphase transport in biological systems or biotechnology, and environmental sustainability. The duration of unsolicited awards is generally one to three years. Typical annual award size for the program is $100K. Small equipment proposals up to $70K will also be considered and may be submitted during the annual proposal submission window.
Energy for Sustainability
National Science Foundation
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026
Contact: Ram Gupta, 703/292-2407, ragupta@nsf.gov
Solicitation number: PD-14-7644
This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Current interest areas in sustainable energy technologies are: 1) Biomass Conversion, Biofuels, and Bioenergy; 2) Photovoltaic Solar Energy; 3) Wind Energy; and 4) Advanced Batteries for Transportation. The duration of unsolicited awards is typically three years. The average annual award size for the program is $100K.

Mid-Scale Innovations Program in Astronomical Sciences (MSIP) - Limited Submission
National Science Foundation
Contact: Richard Barvainis, 703/292-4891, rbarvai@nsf.gov
Solicitation number: NSF 13-567
MSIP is designed to fill the need for a well-defined budgetary and competitive selection process to support astronomical projects of intermediate to large cost (but below the MREFC threshold). This solicitation fills part of the mid-scale gap, from $4M to $40M. This program will be formally divided into four subcategories: 1) limited term, self-contained science projects; 2) longer term mid-scale facilities; 3) development investments for future mid-scale and large-scale projects; and 4) community open access capabilities. The MSIP will emphasize both strong scientific merit and a well-developed plan for student training and involvement of a diverse and inclusive workforce in instrumentation, facility development, or data management. The budgets for each of the four categories will be flexible, and distribution across categories will depend on proposal pressure modulated by consideration of programmatic emphasis.

Exploiting Parallelism and Scalability (XPS)
National Science Foundation, Computer and Information Sciences and Engineering (CISE), Office of Cyberinfrastructure
Contact: Varies with research interest
Solicitation number: NSF 14-516
This program aims to support groundbreaking research leading to a new era of parallel computing. XPS seeks research re-evaluating, and possibly re-designing, the traditional computer hardware and software stack for today's heterogeneous parallel and distributed systems and exploring new holistic approaches to parallelism and scalability. Achieving the needed breakthroughs will require a collaborative effort among researchers representing all areas— from the application layer down to the micro-architecture— and will be built on new concepts and new foundational principles. New approaches to achieve scalable performance and usability need new abstract models and algorithms, programming models and languages, hardware architectures, compilers, operating systems and run-time systems, and exploit domain and application-specific knowledge. Research should also focus on energy- and communication-efficiency and on enabling the division of effort between edge devices and clouds. Proposals should address problems related to at least one of the four focus areas: 1) foundational principles, 2) cross-layer and cross-cutting approaches, 3) scalable distributed architectures, and 4) domain-specific design. Approximately $15M will be made available in to support up to 20 awards.
Cognitive Neuroscience

National Science Foundation


Contact: Akaysha Tang, 703/292-7281, atang@nsf.gov

Solicitation number: NSF 14-514

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

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.

Expeditions in Computing

National Science Foundation, Computer and Information Sciences and Engineering (CISE), Cross-Directorate, Office of Cyberinfrastructures


Contact: Mitra Basu, 703/292-8910, mbasu@nsf.gov

Solicitation number: NSF 14-519

The purpose of this FOA is to provide the CISE research and education community with the opportunity to pursue ambitious, fundamental research agendas that promise to define the future of computing and information. Projects supported by the Expeditions program comprise the following characteristics: 1) Foster research climates that nurture creativity and informed risk-taking, and value complementary research and education contributions such that the whole Expeditions project is greater than the sum of its parts; 2) Draw upon well-integrated, diverse teams of investigators from one or more disciplines within computer and information science and engineering, as well as investigators from other fields where necessary; 3) Stimulate effective knowledge transfer; and 4) Demonstrate experimental systems or support shared experimental facilities (including instruments, platforms and/or testbeds), where necessary, to enable discovery and learning. Projects with annual budgets up to $2M for durations of five years will be supported.
Long-Term Ecological Research (LTER) Renewals

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


Contact: Varies with research interest

Solicitation number: NSF 13-588

To address ecological questions that cannot be resolved with short-term observations or experiments, NSF established the Long Term Ecological Research Program (LTER) in 1980. Three components differentiate LTER research from projects supported by other NSF programs: 1) the research is located at specific sites chosen to represent major ecosystem types or natural biomes; 2) it emphasizes the study of ecological phenomena over long periods of time based on data collected in five core areas; and 3) projects include integrative, cross-site, network-wide research. Ongoing research at LTER sites must test important, current ecological theories and significantly advance understanding of the long-term dynamics of populations, communities and ecosystems. It often integrates multiple disciplines and, through cross-site interactions, examines patterns or processes over broad spatial scales. Recognizing that the value of long-term data extends beyond use at any individual site, NSF requires that data collected by all LTER sites be made broadly accessible. The maximum funding for new proposals is $980K per year for a six-year project period.

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.

Secure and Trustworthy Cyberspace - Secure, Trustworthy, Assured and Resilient Semiconductors and Systems (Sa)

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


Contact: Nina Amla, 703/292-8910, namla@nsf.gov

Solicitation number: NSF 14-528

This FOA will support research on new strategies for architecture, specification and verification, especially at the stages of design in which formal methods are currently weak or absent, with the aim of decreasing the likelihood of unintended behavior or access, increasing resistance and resilience to tampering, and improving the ability to provide authentication throughout the supply chain and in the field. This solicitation will support proposals of up to $500K in total budget, with durations of up to three years.
Research Initiation Grants in Engineering Education (RIGEE)
National Science Foundation, Engineering (ENG)
Contact: Donna Riley, 703/292-7107, driley@nsf.gov
Solicitation number: NSF 11-507
The emphasis of RIGEE is on initiating research projects in engineering education rather than supporting research on any specific topic. Proposals are encouraged on any topic which explores engineering education from an inter-disciplinary perspective. RIGEE projects should combine engineering approaches with those from learning and cognitive sciences, engineering education, social sciences, and related fields in synergistic ways and enable engineering faculty to develop expertise in engineering education research. RIGEE awards are intended to broaden participation of engineering faculty in engineering education research. Possible outcomes commensurate with the goals of this program are: 1) Enabling engineering faculty to develop collaborative, first-stage, inter-disciplinary efforts to address boundary-spanning challenges in engineering education; 2) Support engineering faculty in developing expertise in engineering education; and 3) To increase the number of faculty and universities who apply for and receive EEC funding to initiate projects and programs in engineering education research. Anticipated funding is $150K per award for a two year period.

Macrosystems Biology
National Science Foundation, Biological Sciences (BIO)
Contact: Varies with research interest
Solicitation number: NSF 12-532
This program will support quantitative, interdisciplinary, systems-oriented research on biosphere processes and their complex interactions with climate, land use, and invasive species at regional to continental scales as well as planning and development activities to enable groups to conduct Macrosystems Biology Research. Two categories of awards will be made. Category 1 Awards are Exploratory or incubation grants to develop teams, explore a high risk idea, strategy, or innovative approach, hold workshops and develop plans to establish regional to continental scale networks of partners. These awards will be one to two years in duration. Category 2 Awards are larger and longer grants to support full-fledged Macrosystems Biology Research or Modeling studies and may be up to five years in duration.

Private/Nonprofit Agencies
Ongoing
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.
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.

Ongoing

**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.

Ongoing

**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.

Ongoing

**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.

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Ongoing

**Public Welfare Grants**

Public Welfare Foundation  
[http://www.publicwelfare.org/ApplyGrant/Guidelines.aspx](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.

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Ongoing

**Committee for Research and Exploration Grant**

National Geographic Society  

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.

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Ongoing

**FSSS Grants-in-Aid Program**

The Foundation for the Scientific Study of Sexuality (FSSS)  

Contact: aletk001@umn.edu

Solicitation number:

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

Waitt Foundation

http://waittfoundation.org/grant-guidelines

Contact: 858/551-4400

Solicitation number:

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

Michelson Grants in Reproductive Biology

Found Animals Foundation

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

Contact: MichelsonPrize@foundanimals.org

Solicitation number:

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

Energy Foundation Grants

The Energy Foundation

http://www.ef.org/apply-for-a-grant/

Contact: 415/561-6700, energyfund@ef.org

Solicitation number:

The Energy Foundation awards grants and takes direct initiatives in the electric power, buildings, transportation, and climate sectors in the United States. PIs are encouraged to write a brief letter of inquiry describing the proposed project, its purpose, and the amount requested. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Lannan Foundation Grants

Lannan Foundation

http://www.lannan.org/lf/about/grant-guidelines/

Contact: 505/986-8160, info@lannan.org

Solicitation number:

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

**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.

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Ongoing

**Conservation Trust Grant**
National Geographic Society


Contact: conservationtrust@ngs.org

Solicitation number:

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

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Ongoing

**Environment Program**
The William and Flora Hewlett Foundation

http://www.hewlett.org/programs/environment-program/

Contact: 650/234-4500

Solicitation number:

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

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Ongoing

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

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

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

Solicitation number:

The dual criteria for grants are recognizable artistic merit and demonstrable financial need, whether professional, personal or both. The Foundation’s mission is to aid, internationally, those individuals who have worked as professional artists over a significant period of time. The Foundation welcomes, throughout the year, applications from visual artists who are painters, sculptors and artists who work on paper, including printmakers. There are no deadlines. Grants are intended for a one-year period of time. The size of the grant is determined by the individual circumstances of the artist. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Ongoing

**Funding for Readings and Workshops**
Poets and Writers
[http://www.pw.org/content/funding_readingsworkshops](http://www.pw.org/content/funding_readingsworkshops)

Contact: 310/481-7195

Solicitation number:

Poets & Writers provides fees to writers who give readings or conduct writing workshops. Each year, our Readings/Workshops program supports hundreds of writers participating in events in large cities and small towns throughout New York and California. Grants for readings or spoken word performances range from $50 to $350. Grants for workshops range from $100 to $200 per session. Applicants are encouraged to apply more than eight weeks in advance of the event. Grants are awarded on a rolling basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Ongoing

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

Contact:

Solicitation number:

The Charles Stewart Mott Foundation supports efforts in civil society, the environment, and pathways out of poverty. The median grant size is in the $100K range. The majority of grants are between $15K and $250K annually. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Europeans 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

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

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.

Changes in Health Care Financing and Organization (HCFO)

Robert Wood Johnson Foundation
http://pweb1.rwjf.org/applications/solicited/cfp.jsp?ID=21392

Contact: 202/292-6700, 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.

Brain and Behavior Research Grants

Brain & Behavior Research Foundation
http://bbrfoundation.org/narsad-grants-and-prizes

Contact: grants@bbrfoundation.org

Solicitation number:

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

Center for the Advancement of Science in Space

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

Contact: ideas@iss-casis.org

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

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

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

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

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

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.
**Program on Social Inequality**

Russell Sage Foundation

http://www.russellsage.org/research/social-inequality/funding_opportunity

Contact: James Wilson, james@rsage.org

Solicitation number:

The Russell Sage Foundation’s program on Social Inequality supports research on the social, economic, political, and labor market consequences of rising economic inequalities in the United States. This FOA seeks investigator-initiated research projects that will broaden our understanding of the causes and consequences of rising economic inequalities. The foundations is especially interested in projects that might use innovative data or methodologies to address important questions about inequality. Examples of the kinds of topics and questions that are of interest include, but are not limited to, the following: 1) Economic Well-Being, Equality of Opportunity, and Intergenerational Mobility; 2) The Political Process and the Resulting Policies; 3) Psychological and/or Cultural Change; 4) Education; 5) Labor Markets; 6) Child Development and Child Outcomes; 7) Neighborhoods and Communities; 8) Families, Family Structure, and Family Formation; and other forms of inequality. 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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**Pardee Foundation Grants**

Elsa U. Pardee Foundation

http://www.pardeefoundation.org/grants.aspx

Contact: 989/832-3691, info@pardeefoundation.org

Solicitation number:

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.

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**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.

Alcohol Research Grants

The Foundation for Alcohol Research

http://www.abmrf.org/grant_program.asp

Contact: 410/821-7066, grantinfo@abmrf.org

Solicitation number:

The Foundation accepts applications for grants to conduct research on important aspects of alcohol consumption and its effects. Overall, the following areas are more directly related to the mission of the Foundation, and therefore, are of greater interest: 1) Factors influencing transitions in drinking patterns and behavior; 2) Effects of moderate use of alcohol on health and well-being; 3) Mechanisms underlying the behavioral and biomedical effects of alcohol; and 4) Biobehavioral/interdisciplinary research on the etiology of alcohol misuse. Grants are awarded for either one or two years for a maximum of $50K for each of the 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.

Research in the History of the Western Hemisphere

American Historical Association

http://www.historians.org/prizes/BeveridgeGrantInfo.htm

Contact: dschaffer@historians.org

Solicitation number:

The grants are intended to further research in progress and may be used for travel to a library or archive, for microfilms, photographs, or photocopying—a list of purposes that is meant to be merely illustrative, not exhaustive (other expenses, such as child care, can be included). Preference will be given to those with specific research needs, such as the completion of a project or completion of a discrete segment thereof. Preference will be given to Ph.D. candidates and junior scholars. Only members of the Association are eligible. 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 Grant in American Colonial History

American Historical Association


Contact: dschaffer@historians.org

Solicitation number:

This FOA seeks proposals relating to work in progress on a research project in American colonial history, with particular reference to the intercultural aspects of American and European relations. These modest annual grants are intended to further research in progress and may be used for travel to a library or archive, for microfilms, photographs, or photocopying—a list of purposes that is meant to be merely illustrative, not exhaustive (other expenses, such as child care, can be included). Individual grants up to $800 will be awarded. 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.
David Mahoney Neuroimaging Program 2014 - Limited Submission

The Charles A. Dana Foundation

http://www.dana.org/Grants/imaging/

Contact:

Solicitation number:

This program focuses on improving human brain and brain-immune functioning to promote health, and prevent and treat disease. Funds support pilot-testing by investigators who are early in their research careers of promising, high-risk, and innovative ideas with a direct clinical application. Support is focused on faculty researchers who have demonstrated the potential for independent research careers who are at the assistant professor level, or in the first few years of their associate professor appointments. Areas of interest include: 1) understanding normal brain functioning, how it is altered by disease or injury, and how it recovers or repairs; 2) assessing and improving diagnostic and therapeutic approaches; and 3) refining and advancing imaging technologies to address specific clinical questions. Additionally, the Foundation encourages studies that seek to understand developmental processes of disease, surrogate measures of early disease existence, and measures of disease progression. Proposals should use physiological and structural imaging, and/or cellular/molecular imaging. The maximum award is $200K over three years.

Monticello College Foundation Grants

The Monticello College Foundation

http://monticellofound.org/grants.cfm

Contact: 618/468-2370

Solicitation number:

To be eligible, a project must have the potential to make a genuine, effective contribution to the advancement of education for women. Where applicable, the grant recipient should be able to assure continuance of a successful project after the termination of the grant. Professional educational associations, agencies servicing women’s education, and all accredited degree-granting two and four-year colleges and universities are eligible to apply for grants. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

EIF Grants

Engineering Information Foundation

http://www.eifgrants.org/info/index.html

Contact: 212/579-7596, info@eifgrants.org

Solicitation number:

EIF’s grant activity supports developmental projects, instructional projects, and training programs in engineering education and research that fit our fields of interest. These currently include the availability and use of published information, women in engineering, and information access in developing countries. Award amount requests should be between $5K and $25K. Projects should be innovative, promote significant and lasting change, and be able to be successfully replicated elsewhere. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Wayne F. Placek Grants
American Psychological Foundation
Contact: Parie Kadir, pkadir@apa.org
Solicitation number:
These grants encourage research to increase the general public's understanding of homosexuality and sexual orientation, and to alleviate the stress that lesbian women, gay men, bisexual men and women, and transgendered people experience in this and future civilizations. Research is encouraged that addresses: 1) heterosexuals' attitudes and behaviors toward lesbian, gay, bisexual, and transgendered (LGBT) people; 2) family and workplace issues relevant to LGBT people; and 3) special concerns of sectors of the LGBT population that have historically been underrepresented in scientific research. Two $15K grants are available annually. Graduate students and early career researchers are encouraged to apply. 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.

Wabash Center Grants
Wabash College
http://www.wabashcenter.wabash.edu/grants/default.aspx
Contact: Paul Myhre, 800/655-7117, myhrep@wabash.edu
Solicitation number:
The Wabash Center provides funds for activities that enhance teaching and learning in the fields of religion and theology. It seeks to fund projects that promote a sustained conversation about pedagogy through the improvement of practical applications of teaching and learning methods, the encouragement of research and study of pedagogical issues, and the creation of a supportive environment for teaching. All proposals should maintain a reference to specific classroom practices and challenges. This FOA accepts applications for two types of grants: 1) Small Project Grants (for amounts up to $2.5K) have a short application process and can be approved anytime throughout the year; and 2) Project Grants (for amounts up to $20K) require a full application process and are awarded at two different times during the 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.

Policy Research Grants
Al Qasimi Foundation
http://www.alqasimifoundation.com/en/WhatWeDo/Research/FacultyResearchGrants.aspx
Contact: info@alqasimifoundation.rak.ae
Solicitation number:
The purpose of this FOA is four-fold: 1) Provide opportunities for distinguished faculty researchers to conduct innovative, applied research and make a positive impact on the Ras Al Khaimah community; 2) Foster high quality research that supports the development of the region's research capacity; and 3) Build a community of scholars and promote collaboration among highly recognized international universities and national institutions in the United Arab Emirates; and 4) Promote cross-cultural exchange that sparks curiosity, new ideas, and creates understanding. The Grants are designed to sponsor faculty conducting research in Ras Al Khaimah over the summer or as part of a sabbatical. The Foundation will guarantee office space and research support for a period of up to six months. 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.
New Music USA project grants

New Music USA

https://www.newmusicusa.org/grants/new-music-usa-project-grants/

Contact:

Solicitation number:

This FOA supports projects that involve new music getting out into the world through a live performance or recording. Requests can come from individuals or organizations. Projects can take place up to two years past the deadline, or up to six months prior. The organization understand that creative people often undertake many projects simultaneously, which is why we allow individuals and organizations to be on multiple projects per deadline. Furthermore, projects of special interest pay artists directly for their work; whether that’s creating, engaging, performing, or something else. This FOA places special emphasis on funds towards: 1) The creation of new musical work; 2) New live music for dance; 3) Recording costs; and 3) Residency and community outreach activities. Awards will range from $250 to $20K. 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.

2/1/2014 Application

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.

3/3/2014 Full Proposals

Postdoctoral Fellowships

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

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

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

Solicitation number:

The primary objective of this program is to advance academic scholarship by emerging Mexican researchers and UC scientists and scholars in the early stages of their careers, after obtaining their Ph.D. In addition, the program seeks to support existing or developing binational academic networks by enhancing collaborative research projects between UC and Mexican faculty and institutions through the innovative involvement and training of new researchers. In keeping with these goals, postdoctoral applicants will be considered who will be actively participating in a research project or training program at the host UC campus or Mexican institution, with an emphasis on using the stay to advance their own academic and professional development as well as to solidify future binational research ties and networks. Fellowships provide a minimum of $40K and maximum of $51K for a one-year period.
UC MEXUS Collaborative Research Grants
UC Institute for Mexico and the United States (UC MEXUS)
http://ucmexus.ucr.edu/funding/grant_collaborative.html
Contact: Andrea Kaus, 951/827-3586, andrea.kaus@ucr.edu
Solicitation number:

The primary objective of this program is to enable the establishment of new collaborative initiatives with the potential for creating permanent ties between UC campuses and Mexican institutions that will grow and continue with the support of other institutional and extramural funds. Projects funded are expected to lead to development of: 1) major, long-term collaborations; 2) significant advancement of scholarship in the natural sciences, physical sciences, engineering, computer sciences, social sciences, or humanities; 3) strengthening of academic and research capabilities of the participating UC and Mexican institutions, especially in Mexican regional universities and institutions outside of the traditional Mexican research centers; 4) the development of innovative binational instruction or new courses or degree programs; and/or 5) public service and education programs addressing critical issues in Mexico or in the United States. The maximum award amount is $25K for up to 18 months.