Funding Resources

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

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

RESEARCH DEVELOPMENT CONTACT INFORMATION

Meredith Murr
Director, Research Development
murr@research.ucsb.edu or 893-3925

Barbara Walker, Director,
Research Development for the
Social Sciences, Humanities, and Fine Arts
walker@research.ucsb.edu or 893-3576

Stephen Kowel
Director of Research Development for
Science and Engineering
kowel@research.ucsb.edu or 893-7345

Kelly Pillsbury
Research Development Analyst
pillsbury@research.ucsb.edu or 893-8891

TABLE OF CONTENTS

Campus and Agency News 1
Contract and Grant Awards 5
Department of Defense (DOD) 7
Department of Education (ED) 10
Department of Energy (DOE) 11
Department of Justice 11
NASA 12
NEH 20
National Institutes of Health (NIH) 20
National Science Foundation (NSF) 76
Nuclear Regulatory Commission 89
Private/Nonprofit Agencies 89
UC and State of California 101

Campus and Agency News

NSF SCIENCE AND TECHNOLOGY CENTER DISCUSSION

The Office of Research has learned that the NSF will be releasing their next solicitation for the Science and Technology Center (STC) program in the next few months. The STC program funds integrative research and education centers at a level of $5M/year for 5 years (renewable for an additional 5 years). We anticipate that most of the parameters for this solicitation would be the same as the last (released in 2011 - http://www.nsf.gov/pubs/2011/nsf11522/nsf11522.htm). We invite all faculty interested in pursuing this opportunity to a meeting to discuss necessary components in a STC program, the campus selection process for the limited submission, and the assistance that research development can provide.

What: Meeting to discuss upcoming NSF Science and Technology Center solicitation
When: Wednesday, May 21st, 2-3pm
Where: 3250 Elings Hall
RSVP: http://www.research.ucsb.edu/research-development/events/stc-workshop

Panelists:
Mike Witherell, Vice Chancellor for Research
Tim Cheng, Acting Associate Vice Chancellor for Research
Pierre Wiltzius, Dean of Science
Rod Alferness, Dean of Engineering
Meredith Murr, Director of Research Development
Stephen Kowel, Director of Research Development for Science and Engineering

FACULTY SUSTAINABILITY CHAMPION AWARD

The Academic Senate’s Sustainability Work Group has announced the 2014-2015 Faculty Sustainability Champion call for proposals. The purpose of the Sustainability Champion award is to highlight and support the work of faculty whose scholarship demonstrates a commitment to the environment and sustainability. The award may be used to fund graduate and/or undergraduate assistantships and institutional opportunities that will allow the selected Champion to build upon his or her area of scholarship, to educate the campus and community of the significance of that work, and to explore its application to advancing sustainability at levels spanning from the campus to the planet. Academic Senate faculty and Unit 18 members are eligible to apply. Awards are $25K, for a one year duration (Fall 2014 - Fall 2015). Click here for the RFP.

DEADLINE: May 27th, 2014

NSF DEAR COLLEAGUE LETTERS

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

Dear Colleague Letter - Transition Plans for the SAFOD Component of Earth-
Scope


This letter is intended to describe NSF plans for the San Andreas Fault Observatory at Depth (SAFOD) component of the EarthScope Program. NSF intends to transition to a new support model for SAFOD activities:

• NSF intends to continue support for research and education activities using SAFOD physical samples. Texas A&M University has now assumed stewardship of these materials, under an award that is planned to operate through FY 2016 with Professor Judith Chester as principal investigator.

• NSF does not intend to set aside any specific level funding for proposals involving SAFOD downhole activities.

• NSF does not intend to solicit proposals for PI-driven experiments using the SAFOD Main Hole or for a new entity to assume management of SAFOD downhole activities.

• NSF will process, through the normal merit review system, any unsolicited proposals received for use of the Main Hole or for management of SAFOD downhole activities.

• If no such proposals are received within six months, NSF intends to explore further options for SAFOD downhole activities, including alternative ownership arrangements for the Main Hole or transitioning it into a long-term “mothball” status.

Dear Colleague Letter - Supporting Scientific Discovery through Norms and Practices for Software and Data Citation and Attribution


NSF seeks to explore new norms and practices in the research community for software and data citation and attribution, so that data producers, software and tool developers, and data curators are credited for their contributions. The Science of Science and Innovation Policy (SciSIP) program and Software Infrastructure for Sustained Innovation (SI2) program invite collaborative workshop and exploratory research (EAGER) proposals in the following areas:

• Citation and attribution
• Metrics of impact

It is strongly recommended that proposals be collaborative, with investigators from both the social science and cyberinfrastructure communities, including but not limited to: economics, sociology, science of organizations, management science, software infrastructure, data infrastructure, science of team science, science of science and innovation policy, and science, technology, and society.

Dear Colleague Letter: FY2015 Faculty Early Development (CAREER) Program for the Directorate for Engineering, NSF 14-532


The purpose of this DCL is to announce an increase in the minimum CAREER award size for the Directorate for Engineering beginning in the FY15 competition (July 22, 2014 deadline). The minimum CAREER award size, including indirect costs, will total $500,000 for the 5-year duration. Specifically, this increase applies only to CAREER proposals submitted to programs in the following Divisions in the Engineering Directorate:

• Chemical, Bioengineering, Environmental, and Transport Systems (CBET)
• Civil, Mechanical and Manufacturing Innovation (CMMI)
• Electrical, Computer and Cyber Systems (ECCS)
• Engineering Education and Centers (EEC)

Dear Colleague Letter - Mathematical Sciences Innovation Incubator (MSII)


The MSII encourages and supports new research collaborations among mathematical scientists and other scientists and engineers working in NSF-supported research areas of
high national priority by:
• facilitating DMS co-review and co-funding of multi-disciplinary research collaborations
  involving mathematical scientists;
• providing leverage for investments of non-DMS NSF programs in projects that include
  mathematical scientists; and
• providing a uniform mechanism through which collaborative research teams involving
  mathematical scientists can request DMS co-review.

Dear Colleague Letter: Community Input On Future NSF Nanotechnology
Infrastructure Support Program
The Engineering Directorate invites input from members of the science and engineering
community on a future NSF nanotechnology infrastructure support program that will
succeed the National Nanotechnology Infrastructure Network (NNIN). The input window
for comment will be open from May 2, 2014 through June 2, 2014. Your input will be made
available to external study panels and NSF staff in further deliberations on the develop-
ment of the future NSF nanotechnology infrastructure support program. Please provide
your input via email to FutureNNIN@nsf.gov. Compose your input preferably in the body
of a plain-text email message. Alternately, you may send it as an attachment, while includ-
ing a brief summary in the text of the email message. Try to be as concise and understand-
able as possible in the points you wish to convey. Please keep your response to no more
than 3 pages in length.

Dear Colleague Letter - Big Data For The Geosciences - Calling Attention to
Big Data Challenges in the Geosciences
This Dear Colleague letter is intended to highlight the importance of Big Data chal-
enges in the geosciences and identify an opportunity to address part of that challenge.
The Geosciences Directorate (GEO) calls the attention of U.S. Academic geosciences
researchers to the Critical Techniques and Technologies for Advancing Big Data Science
pgm_summ.jsp?pims_id=504767) organized by the Computer and Information Science
and Engineering Directorate (CISE). The purpose of this solicitation is the development of
fundamentally new techniques and technologies in Big Data knowledge management,
data analytics challenges and computational scientific discovery, encompassing formal-
ization, analysis, and algorithmic realization of all aspects of scientific discovery. These
techniques and technologies may be attractive to the geosciences.

Dear Colleague Letter: NSF-Deutsche Forschungsgemeinschaft (DFG) Col-
laborative Research
NSF expects to award a small number of supplements (up to $20,000) to current NSF
awards to enable US-based researchers to collaborate with Germany-based researchers
(who are currently funded by DFG) on topics that fit the Design Automation part of the
of the CISE Division on Computing and Communication Foundations. NSF encourages
new collaborations, and, as part of this initiative, also hopes to make strong topical con-
nections to DFG’s priority program on “Design and Architectures of Dependable Embed-
ded Systems.” Investigators interested in applying for such a supplement are required to
submit a brief one paragraph description of the proposed joint research via email to the
cognizant program director Sankar Basu (sabasu@nsf.gov) by cob June 30, 2014. The email
also should include the name(s) of their intended collaborator(s). NSF may share these
descriptions with the DFG. The investigators will be provided with feedback regarding how
well their request fits the priorities of NSF and DFG and, where appropriate, be invited to submit a standard supplemental funding request in accordance with NSF’s Award and Administration Guide I.E.4.

CAMPUS HONORS AND AWARDS

Fellow of the American Ceramic Society
Frank Zok, professor of materials, has been elected Fellow of the American Ceramic Society for his distinguished contributions to ceramic matrix composites.

Searle Scholar
Irene Chen, professor of chemistry and biochemistry, has been selected as a 2014 Searle Scholar. This grant will support Chen’s work exploring the beginnings of life and new directions in biomedical research.

Guggenheim Fellowship
Yunte Huang, professor of English, was awarded a prestigious Guggenheim Fellowship for his achievements and exceptional promise in the area of Creative Arts - General Nonfiction.

Fellow of American Academy of Arts & Sciences
UC Santa Barbara faculty members Catherine L. Albanese, the J. F. Rowny Professor Emerita in Comparative Religions, and Anthony Zee, a professor of physics, have been elected fellows of the American Academy of Arts and Sciences.

Fritz London Memorial Prize
John Martinis, professor of physics, has received the 2014 Fritz London Memorial Prize for his fundamental and pioneering experimental advances in quantum control, quantum information processing and quantum optics with superconducting qubits and microwave photons. He shares the honor with Michel Devoret and Robert Schoelkopf of Yale University.

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:

• Grant Foundation 2014 William T. Grant Scholars—Campus Notice of Intent 05/01/2014; Campus Pre-proposal 07/01/2014; Agency deadline 07/01/2014

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

• NIH International Research Ethics Education and Curriculum Development Award (R25)—Agency deadline 05/22/2014
• NSF Nanotechnology Undergraduate Education (NUE) in Engineering—Agency deadline 05/27/2014
• NIH Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences—Agency deadline 05/28/2014
Contract and Grant Awards
April 2014

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


Dugan, J.E., Marine Science Institute, $45,000, UC Sea Grant College Program, “The Ecological State of Northern California’s Sandy Beaches and Surf Zones: A Baseline Characterization for MPA Assessment.”

Gaines, S. (Ecology, Evolution & Marine Biology), Marine Science Institute, $200,000, Conservation International Foundation, “Marine spatial planning (MSP) and lobster fishery reform for the Galapagos.”


Goulias, K.G., geography, $100,000, UC Berkeley-UCB, “UCCONNECT (Federal): University of California Center on Economic Competitiveness in Transportation.”

Gurven, M.D. (Anthropology), Trumble, B.C., Institute for Social, Behavioral, & Economic Research, $126,000, National Science Foundation, “RAPID: Surviving the Flood: Vulnerability, Risk Management, and Resilience after a Natural Disaster.”


Hess, L.L., Melack, J.M. (Ecology, Evolution & Marine Biology), Earth Research Institute, $529,966, Virginia Polytechnic Institute, “Impacts of floods and droughts on aquatic macrophytes, forests, and fisheries of central Amazonian river floodplains.”

Israelachvili, J.N., Boles, J.R. (Earth Science), Chemical Engineering, $1,352,888, Aramco Services Company, “Gulf Crude Oil-Rock-Brine interactions at the nano to the macro scales.”

Jackson, M., Earth Research Institute, $111,566, National Science Foundation, “Collaborative Research: Using sulfur isotopes to identify subducted Archean crust in modern oceanic hotspot lavas.”


Lubin, P.M. (Physics), Institute for Terahertz Science & Technology, $0, Raytheon Company, “Master Agreement.”

Moehlis, J.M., Gibou, F.G., Mechanical Engineering, $375,000, National Science Foundation, “Optimal termination of spiral waves associated with cardiac arrhythmias.”


Seubert, D.C., Davidson Library, $80,000, Library Of Congress, “National Jukebox Digitizing Phase 3.”


Sharkey, J. (Department of Counseling, Clinical, and School Psychology), Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Research Institute, $55,141, Santa Barbara County, “Reduction of Probation Recidivism with Local Probation Practices (SB 678).”
Sharkey, J. (Department of Counseling, Clinical, and School Psychology), Dowdy, E. (Department of Counseling, Clinical, and School Psychology), Gevirtz Research Institute, $30,000, City of Carpinteria, “Evaluation of Carpinteria CalGRIP to Increase the Resiliency of Youth at risk of Gang Involvement.”

Sharkey, J. (Department of Counseling, Clinical, and School Psychology), Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Research Institute, $50,000, Community Action Commission of Santa Barbara County, “Evaluation of Lompoc CalGRIP to Reduce Gang Activity.”

Sharkey, J. (Department of Counseling, Clinical, and School Psychology), Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Research Institute, $68,706, Santa Barbara County, “Criminal Justice Realignment (AB 109).”


Helpful Hints

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

Department of Defense (DOD)

Ongoing

**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

**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.

Ongoing

**United States Army Research Institute for the Behavioral and Social Sciences Broad Agency Announcement for Basic Research and Advanced Technology Development**

U.S. Army Research Office

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

Contact:  Varies with research interest

Solicitation number:  W911NF-13-R-0001

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

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, Neuro-technology 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.

FY14 Breast Cancer Research Program (BCRP) Breakthrough Award Levels 1 and 2

This FOA challenges the scientific community to design research that will address the urgency of ending breast cancer. Specifically, the BCRP seeks to accelerate high-impact research with clinical relevance, encourage innovation and stimulate creativity, and facilitate productive collaborations. The intent of the Breakthrough Award is to support promising research that has high potential to lead to or make breakthroughs in breast cancer. The critical components of this award mechanism are: 1) Impact; and 2) Research Scope. Under Funding Level 1, this FOA seeks innovative, high-risk/high-reward research that is in the earliest stages of idea development; Research with potential to yield new avenues of investigation; Proof of concept with no preliminary data required. Under Funding Level 2, this FOA seeks research that is already supported by preliminary data and has potential to make significant advancements toward clinical translation; Demonstration of efficacy in in vivo models, as applicable. Funding Level 1: The maximum period of performance is three years, and the maximum allowable direct costs for the entire period of performance are $350K plus indirect costs. Funding Level 2: The maximum period of performance is three years, and the maximum allowable direct costs for the entire period of performance are $700K plus indirect costs.

Supply Chain Hardware Integrity for Electronics (SHIELD)

DARPA is soliciting innovative research proposals in the area of supply chain protection of electronic components. Specifically, DARPA is soliciting innovative research and development proposals to create extremely small electronic chips hosting specific advanced capabilities, for use in the authentication of the host electronic components to which they are physically attached. The SHIELD Program will provide a secure hardware root-of-trust which, when co-packaged with an electronic component, will provide it with a unique, permanent identification that is nearly impossible to copy or alter. This root-of-trust will be used to authenticate the provenance of electronic components in an assembly as they travel through the supply chain, as well as by the final consumer of the assembly to occasionally re-authenticate the composition of its final installation throughout its lifetime.
The goal of this FOA is to eradicate deaths from lung cancer to better the health and welfare of military service members, Veterans, their families, other military beneficiaries, and the American public. As such, the LCRP will support and integrate research from multiple disciplines for risk assessment, prevention, early detection, diagnosis, and treatment for the control and cure of lung cancer. The Career Development Award supports early-career, independent investigators to conduct impactful research under the mentorship of an experienced lung cancer researcher as an opportunity to obtain the funding, mentoring, and experience necessary for productive, independent careers at the forefront of lung cancer research. This award is intended to support impactful research projects with an emphasis on discovery. Submissions from and partnerships with investigators at Military Treatment Facilities (MTFs), military labs, the Department of Veterans Affairs (VA) Medical Centers and research laboratories are strongly encouraged. Applications for the FY14 LCRP Idea Development Award must address at least one of the seven Areas of Emphasis listed below: 1) Identify or develop noninvasive or minimally invasive tools to improve detection of the initial stages of lung cancer; 2) Identify, develop, and/or build upon already existing tools for screening or early detection of lung cancer. Screening may include, but is not limited to, computed tomography scans, X-rays, imaging biomarkers, genetics/genomics/proteomics/metabolomics/transcriptomics, and assessment of risk factors; 3) Understand the molecular mechanisms of progression to clinically significant lung cancer; 4) Understand the molecular mechanisms that lead to various subtypes of lung cancer; 5) Identify innovative strategies for prevention and treatment of early and/or localized lung cancer; 6) Understand predictive and prognostic markers to identify responders and nonresponders; and 7) Understand susceptibility or resistance to treatment. The maximum period of performance is two years, and the maximum allowable direct costs for the entire period of performance are $240K plus indirect costs.

The goal of this FOA is to eradicate deaths from lung cancer to better the health and welfare of military service members, Veterans, their families, other military beneficiaries, and the American public. As such, the LCRP will support and integrate research from multiple disciplines for risk assessment, prevention, early detection, diagnosis, and treatment for the control and cure of lung cancer. The Idea Development Award promotes new ideas that are still in the early stages of development and have the potential to yield impactful data and new avenues of investigation. This award supports conceptually innovative, high-risk/high-reward research that could lead to critical discoveries or major advancements that will accelerate progress toward eradicating deaths from lung cancer. Applications should include a well-formulated, testable hypothesis based on strong scientific rationale. Submissions from and partnerships with investigators at Military Treatment Facilities (MTFs), military labs, the Department of Veterans Affairs (VA) Medical Centers and research laboratories are strongly encouraged. Applications for the FY14 LCRP Idea Development Award must address at least one of the seven Areas of Emphasis listed below: 1) Identify or develop noninvasive or minimally invasive tools to improve detection of the initial stages of lung cancer; 2) Identify, develop, and/or build upon already existing tools for screening or early detection of lung cancer. Screening may include, but is not limited to, computed tomography scans, X-rays, imaging biomarkers, genetics/genomics/proteomics/metabolomics/transcriptomics, and assessment of risk factors; 3) Understand the molecular mechanisms of progression to clinically significant lung cancer; 4) Understand the molecular mechanisms that lead to various subtypes of lung cancer; 5) Identify innovative strategies for prevention and treatment of early and/or localized lung cancer; 6) Understand predictive and prognostic markers to identify responders and nonresponders; and 7) Understand susceptibility or resistance to treatment. The maximum period of performance is two years, and the maximum allowable direct costs for the entire period of performance are $350K plus indirect costs.
DARPA Strategic Technology Office (STO) Broad Agency Announcement (BAA)

Defense Advanced Research Projects Agency (DARPA)

https://www.fbo.gov/utils/view?id=e787ae58c1b47fbdcc2df4f73519b178

Contact: DARPA-BAA-13-29@darpa.mil

Solicitation number: DARPA-BAA-13-29

DARPA seeks innovative ideas and disruptive technologies that offer the potential for significant capability improvement across the Strategic Technology Office (STO) focus areas. This includes system and technology development related to: 1) Battle Management (BM); 2) Command and Control (C2); 3) Communications, Intelligence, Surveillance, and Reconnaissance (ISR); 4) Electronic Warfare (EW); and 5) Positioning, Navigation and Timing (PNT). Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded are existing mature solutions and research that results in evolutionary improvements to existing technologies. Technologies of particular interest would address challenges of operating in contested, denied, and/or austere environments. The amount of resources made available under this FOA will depend on the quality of the proposals received and the availability of funds. Cost sharing is not required but is encouraged where there is a reasonable probability of a potential commercial application related to the proposed research and development effort.

Information Innovation Office (I2O) Office-Wide BAA

Defense Advanced Research Projects Agency (DARPA)

https://www.fbo.gov/index?s=opportunity&mode=form&id=28e5dfc563c246b59c3f02e12dee3b53&tab=core&_cview=1

Contact: Norman Whitaker, DARPA-BAA-13-32@darpa.mil

Solicitation number: DARPA-BAA-13-32

I2O explores game-changing technologies in the fields of information science and software to anticipate and create rapid shifts in the complex national security landscape. Conflict can occur in traditional domains such as land, sea, air, and space, and in emerging domains such as cyber and other types of irregular warfare. I2O’s research portfolio is focused on anticipating new modes of warfare in these emerging areas and developing the concepts and tools necessary to provide decisive advantage for the U.S. and its allies. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of the art. I2O seeks unconventional approaches that are outside the mainstream, undertaking directions that challenge assumptions and have the potential to radically change established practice.

Department of Education

6/5/2014  Letter of Intent (encouraged)
8/7/2014  Application

Education Research Grants

Institute of Education Sciences


Contact: Varies with research interest

Solicitation number: CFDA 84.305A

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

Department of Energy (DOE)
Research, Development and Training in Isotope Production

Department of Energy, Office of Science

http://www.grants.gov/web/grants/view-opportunity.html?oppId=253061

Contact: Dennis Phillips, 301/903-7866, Dennis.Phillips@science.doe.gov

Solicitation number: DE-FOA-0001099

This announcement solicits applications for research on alternative methods to produce and separate stable and radioactive isotopes needed for a wide variety of research and applications. The proposed research and development should provide new and innovative technologies, or improvements to existing technologies, to foster the enhanced production of isotopes that will benefit research and applications in medicine, homeland security, the physical sciences, biological and geological sciences, and industry. Applications proposing novel and effective ways to enhance education and training of personnel with expertise to improve and develop new methods in the production, processing, purification, and distribution of stable and radioactive isotopes are invited. Research Grant Awards are expected to be made for a period of one or two years as befitting the project.

Bioenergy Technologies Incubator - Limited Submission

Department of Energy

https://eere-exchange.energy.gov/ - Foald28e0ebed-de32-4b3a-97f3-4184df7f5420

Contact: BETOIncubator@go.doe.gov

Solicitation number: DE-FOA-0000974

The mission of the Bioenergy Technologies Office (BETO) is to engage in research and development (R&D) and demonstration and deployment (D&D) activities to transform renewable biomass resources into commercially viable, high-performance biofuels, and bioproducts, and biopower that enable biofuels production. This FOA is open to any and all impactful areas which significantly advance the mission of the BETO (which BETO is not currently supporting in a substantial way), in all aspects of the bioenergy supply chain, from feedstock supply and logistics to conversion processes. Potential incubator projects are expected be at early TRL levels (2-4). Awards will vary between $500K and $2M. Projects are anticipated to run 12-24 months.

Improving Recidivism and Health Outcomes for the Justice-Involved Population

Department of Justice

https://www.bja.gov/Funding/14MaximizingACAsol.pdf

Contact: 877/927–5657, JIC@telesishq.com

Solicitation number: BJA-2014-3843

State and local criminal justice systems can play an important role in ensuring justice-involved populations receive assistance and support in applying for health coverage, which can help divert individuals from the criminal justice system, reduce recidivism, and also provide a continuum of care for individuals preparing to reenter back into their communities. This solicitation seeks a national training and technical assistance provider to assist select state and local criminal justice systems in maximizing the opportunities for expanded health care coverage under the PPACA, as well as develop resources to assist the broader criminal justice field nationwide. As a result of improved coverage, state and local justice systems may experience considerable cost savings by utilizing expanded coverage options under Medicaid and the Marketplace. BJA anticipates that it will make one cooperative agreement of up to $500K for a 12-month project period.
Research and Evaluation on Domestic Radicalization to Violent Extremism

Department of Justice

https://www.ncjrs.gov/pdffiles1/nij/si001090.pdf

Contact: John Picarelli, john.picarelli@usdoj.gov

Solicitation number: NU-2014-3751

The Department of Justice is seeking applications for funding for research to meet the challenges from domestic radicalization to violent extremism. This program furthers the Department’s mission by sponsoring research to provide objective, independent, evidence-based knowledge to improve the response to radicalization to violent extremism in U.S. communities. This solicitation seeks applications for funding for research that will primarily benefit criminal justice agencies and their attendant communities at the state, local and tribal levels. Responses to this solicitation can include explanatory models and hypothesis testing, empirical designs with control groups, thick description, case studies and other scientific contributions to our understanding of domestic radicalization to violent extremism as it occurs in the United States. NIJ anticipates that up to a total of $3M may become available for awards under this solicitation. From the total amount, NIJ anticipates that it will make one to six awards for a three-year project period.

National Aeronautics and Space Administration (NASA)

Ongoing

C.23 Planetary Major Equipment

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=301993/solicitationId=%7B48D582D6-FF5B-B624-BF5B-B624-

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

Solicitation number: NNH12ZDA001N-PME

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

ROSES 2014: Exoplanet Research Program

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=397778/solicitationId=%7B8E2C5B6A-63D1-FBE0-FB5B-B624-

Contact: Christina Richey, 202/358-2206, christina.r.richey@nasa.gov

Solicitation number: NNH14ZDA001N-XRP

The Exoplanets program element solicits basic research proposals to conduct scientific investigations related to the research and analysis of extrasolar planets (exoplanets). Its broad objectives include the determination of compositions, dynamics, energetics, chemical behaviors of extrasolar planets, and the detection and characterization of other planetary systems. This program element is shared between the Planetary Science Division and the Astrophysics Division, which takes responsibility for proposals involving the detection of extrasolar planets. Research supported by this call may include observations, laboratory studies, theoretical studies, and modeling. Investigations are expected to directly support the goal of understanding exoplanetary systems, by doing one or more of the following: 1) aid in the detection of new exoplanets; 2) explain observations of exoplanetary systems; 3) understand the chemical and physical processes of exoplanets; 4) improve understanding of the origins of exoplanetary systems. The average funding for the first year of this award is $100K. Projects will not exceed four years in duration.
ROSES 2014: Solar System Workings

The Solar System Workings program element supports research into atmospheric, climatological, dynamical, geologic, geophysical, and geochemical processes occurring on planetary bodies, satellites, and other minor bodies (including rings) in the Solar System. This call seeks to address the physical and chemical processes that affect the surfaces, interiors, atmospheres, exospheres, and magnetospheres of planetary bodies. A wide range of investigations will be covered, including theoretical studies, analytical and numerical modeling, sample-based studies of extraterrestrial materials, field work, laboratory studies, and data synthesis relevant to the physical and chemical processes affecting planetary systems. The average funding for first year awards is $133K. The maximum duration of a project periods is three years.

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

ROSES 2014: Emerging Worlds

The Emerging Worlds program solicits research proposals to conduct scientific investigations related to understanding the formation and early evolution of our Solar System. It covers the physics and chemistry of events and materials that are relevant to the formation of planets, satellites, and minor bodies, including dust, and to the early history of these bodies. For the purposes of this solicitation, formation encompasses events and processes that result in a significant change to the physical or chemical structure of the solar system, the inventory of bodies in the solar system (planets, satellites, minor bodies, rings, and dust), or the distribution of bodies in the solar system. This includes, but is not limited to: 1) Protoplanetary disk formation and evolution; 2) Nebular transport mechanisms; 3) Large-scale chemical and isotopic fractionation processes; 4) Chemical and physical processing of gas, dust, and ice; 5) Formation of organic molecules in space; 6) Formation, accretion, and stability of solar system bodies; 7) The bulk properties of solar system bodies; 8) The chemical and physical properties of ancient materials (including asteroids and comets); and 9) The origins of meteorites and meteorite groups. The maximum project duration is four years.

Contact: Jeff Grossman, 202/358-1218, jeffrey.n.grossman@mail.nasa.gov

ROSES 2014: Ocean Salinity Field Campaign

The objective of this program element is to select additional members to the ongoing NASA Ocean Salinity Science Team for a 2015-16 Ocean Salinity Field campaign in support of the science of the U.S./Comisión Nacional de Actividades Espaciales (CONAE). As articulated in the report of the U.S. Climate Variability and Predictability Research (CLIVAR) Salinity Working Group (2007), no part of the climate system is as important to society as the global hydrological cycle; yet we lack key understanding of its major element, the ocean. Thus, it is of great importance to improve our abilities to monitor, understand, and model the water cycle over and within the oceans. As upper ocean salinity (UOS) is an important variable that indicates the intensity of water exchange between ocean and atmosphere and has direct impact on the ocean’s mass distribution, mixing rates, and associated interior circulation, improved observation systems for salinity and better understanding of the processes that control it are needed for progress in understanding the oceanic water cycle. The average size of awards in the first year of the project will be $200K. The maximum period of performance is three years.

Contact: Eric Lindstrom, 202/358-4540, eric.j.lindstrom@nasa.gov
ROSES 2014: ICESat2 Science Definition Team
National Aeronautics and Space Administration
http://nspires.nasaprs.com/external/viewrepositoydocument/cmdocumentid=397812/solicitationId=%7BFC0ADE62-E77E-8187-885E-98773D6C1212
Contact: Thomas Wagner, 202/358-4682, thomas.wagner@nasa.gov
Solicitation number: NNH14ZDA001N–ICESAT2
This solicitation calls for proposals for membership in the ICESat 2 Science Definition Team (SDT) that will continue the science definition and planning activities for the mission from 2015 through to launch. Key activities during this period are continued scientific feedback on overall mission planning and development of higher level products, algorithms, and calibration and validation plans as the mission transitions to its operational phase. Members of the SDT will attend approximately two team meetings per year and will provide expert input on issues related to the ICESat 2. Between SDT meetings, members will be routinely available for teleconferences, as needed. Members are expected to provide expert guidance on: mission science, measurement parameters for achieving the required science objectives, the scientific impacts of engineering decisions and design trades, and the algorithm theoretical basis documents. The average funding for the first year of awards is $75K. The maximum duration for projects is three years.

ROSES 2014: Exobiology
National Aeronautics and Space Administration
http://nspires.nasaprs.com/external/viewrepositoydocument/cmdocumentid=397956/solicitationId=%7B01F677D6-CA87-F50E-AEFC-28E88C839098
Contact: Michael New, 202/358-1766, michael.h.new@nasa.gov
Solicitation number: NNH14ZDA001N–EXO
The goal of NASA's Exobiology is to understand the origin, evolution, distribution, and future of life in the Universe. Research is centered on the origin and early evolution of life, the potential of life to adapt to different environments, and the implications for life elsewhere. This research is conducted in the context of NASA’s ongoing exploration of our stellar neighborhood and the identification of biosignatures for in situ and remote sensing applications. The areas of research emphases in this solicitation are as follows: 1) Prebiotic Evolution; 2) Early Evolution of Life and the Biosphere; 3) Evolution of Advanced Life; 4) Large scale environmental change and Macro-evolution; and 5) Biosignatures and Life Elsewhere. The average funding for the first year of awards is $150K. The maximum project duration is four years.

ROSES 2014: Solar System Observations
National Aeronautics and Space Administration
http://nspires.nasaprs.com/external/viewrepositoydocument/cmdocumentid=397960/solicitationId=%7B3EFFB689-0398-0F85-63DA-820492F87E79
Contact: Lindley Johnson, 202/358-2314, lindley.johnson@nasa.gov
Solicitation number: NNH14ZDA001N–SSO
Solar System Observations supports both ground and space-based astronomical observations and suborbital investigations of our Solar System involving sounding rockets and balloons. Proposals are solicited for observations over the entire range of wavelengths, from the ultraviolet to radio, that contribute to the understanding of the nature and evolution of the Solar System and its individual constituents. Additionally, Solar System Observations supports NASA’s commitment to discover and inventory potentially hazardous near Earth objects with sizes down to at least ~100 meters and to characterize that population through determination of their orbital elements. This program element will also consider proposals that characterize a representative sample of these objects by measuring their sizes, shapes, and compositions. Solar System Observations contains two primary components: 1) Planetary Astronomy; and 2) Near Earth Object Observations. The average funding for the first year of awards is $300K. Projects are limited to three years in duration.
ROSES 2014: Planetary Protection Research
National Aeronautics and Space Administration
http://nspires.nasa.gov/external/viewrepositorydocument/cmdocumentid=397981/solicitationId=%7BB625D578-61B1-09BE-09BE-09BE-09BE-%7D
Contact: Catharine Conley, 202/358-3912, HQ-PPR@mail.nasa.gov
Solicitation number: NNH14ZDA001N-PPR
Planetary protection involves preventing biological contamination on both outbound and sample return missions to other planetary bodies. Numerous areas of research in astrobiology/exobiology are improving our understanding of the potential for survival of Earth microbes in extraterrestrial environments, relevant to preventing contamination of other bodies by organisms carried on spacecraft. Research is required to improve NASA’s understanding of the potential for both forward and backward contamination, how to minimize it, and to set standards in these areas for spacecraft preparation and operating procedures. Improvements in technologies and methods for evaluating the potential for life in returned samples are also of interest. The average funding amount for the first year of the award is $150K. The maximum duration of the project is four years.

ROSES 2014: Heliophysics Technology and Instrument Development for Science
National Aeronautics and Space Administration
http://nspires.nasa.gov/external/solicitations/summary.do?method=init&solId={140DFC9E-037D-F799-0D41-8BDF7C15695}
Contact: Jeffrey Newmark, 202/358-0684, jeffrey.s.newmark@nasa.gov
Solicitation number: NNH14ZDA001N-HTIDS
The H-TiDeS program solicits proposals for investigations that are relevant to NASA’s programs in Heliophysics. The H-TiDeS program seeks to investigate key Heliophysics science questions by addressing the best possible (i) science and/or technology investigations that can be carried out with instruments flown on suborbital sounding rockets, stratospheric balloons, CubeSats, commercial reusable suborbital launch vehicles, or other platforms; (ii) state-of-the-art instrument technology development for instruments that may be proposed as candidate experiments for future space flight opportunities; and (iii) laboratory research. Advancement in Heliophysics science requires the development and application of new technologies that will yield the next generation of innovative instruments. Laboratory research can be a relevant supplement to instrumentation and to the science of Heliophysics. This program has three main research thrusts, (1) payloads on balloons, sounding rockets, or as secondary payloads on rockets, CubeSats, and the International Space Station, collectively referred to as Low-Cost Access to Space (LCAS); (2) Instrument and Technology Development (ITD), which may be carried out in the laboratory and/or observatory; and (3) enabling Laboratory Nuclear, Atomic, and Plasma Physics (LNAPP) studies. The maximum duration of a project period for this solicitation is four years.

ROSES 2014: Maturation of Instruments for Solar System Exploration
National Aeronautics and Space Administration
http://nspires.nasa.gov/external/viewrepositorydocument/cmdocumentid=397977/solicitationId=%7BB9F7E58C1-C5D6-1195-C5D6-1195-C5D6-%7D
Contact: Janice Buckner, 202/358-0183, janice.l.buckner@nasa.gov
Solicitation number: NNH14ZDA001N-MATISSE
The Maturation of Instruments for Solar System Exploration (MatISSE) Program supports the advanced development of spacecraft-based instruments that show promise for use in future planetary missions. The goal of the program is to develop and demonstrate planetary and astrobiology science instruments to the point where they may be proposed in response to future announcements of flight opportunity without additional extensive technology development (approximately Technology Readiness Level [TRL] 6). The proposed instrument must address specific scientific objectives of likely future planetary science missions. The average funding for the first year of the award is $167K. Projects will not exceed four years in duration.
ROSES 2014: Laboratory Analysis of Returned Samples
National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=397988/solicitationId=%7B4C610164-1047-DF7C-F559-396C2C8C2D8B

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

Solicitation number: NNH14ZDA001N-LARS

Proposals solicited under this program include those that seek to develop new analytical instrumentation or combinations of analytical instruments, or new components of analytical instruments, leading to significant improvements in the precision, resolution, or sensitivity of measurements compared to the existing state of the art. Also of interest are proposals for the development of new analytical techniques for existing instrumentation that will push the limits of current technology, for example, by the elimination of analytical interferences or contamination problems. In all cases, both the development efforts and the clear relevance to NASA sample-return missions must be clearly documented in the proposals. Proposals may seek to develop analytical capabilities for future sample-return missions. However, work that addresses the needs of current or selected missions have the highest priority. The average funding for the first year of awards is $107K. The maximum project period is four years.

ROSES 2014: Physical Oceanography
National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=397799/solicitationId=%7B45EEF657-F41E-8857-837A-3A0ACF3C017B

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

Solicitation number: NNH14ZDA001N-PO

Two research themes are identified in the Physical Oceanography program and represent priority areas for proposals solicited through this announcement. 1) Analysis and interpretation of the ocean circulation using satellite and in-situ data. NASA will support modest proposals undertaking analysis of satellite altimetry, surface wind stress, and other relevant data in support of the U.S. CLIVAR Program (http://www.usclivar.org); and 2) Development of new remote sensing techniques for physical oceanography. NASA has successfully developed remote sensing techniques for ocean surface winds, sea level, sea surface temperature, and sea surface salinity. Each of these variables has a science team and dedicated research activity. NASA will support modest proposals that explore new concepts for remote sensing of interest to physical oceanography. This opportunity is NOT for technology or instrument development but for concept articulation and exploration. The average funding for the first year of this award is $100K. The maximum project-period is for a duration of three years.

ROSES 2014: Atmospheric Composition: Modeling and Analysis
National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=397827/solicitationId=%7BA338908F-CBB3-CC50-9595-5E5D3B7075A7

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

Solicitation number: NNH14ZDA001N-ACMAP

Research within the Atmospheric Composition Focus Area addresses the following science questions: 1) How is atmospheric composition changing? 2) What trends in atmospheric composition and solar radiation are driving global climate? 3) How does atmospheric composition respond to and affect global environmental= change? 4) What are the effects of global atmospheric composition and climate changes on regional air quality? 5) How will future changes in atmospheric composition affect ozone, climate, and global air quality? NASA expects to provide the necessary monitoring and evaluation tools to assess the effects of climate change on ozone recovery and future atmospheric composition, improved climate forecasts, based on our understanding of the forcings of global environmental change and air quality forecasts that take into account the feedbacks between regional air quality and global climate change. Achievements in these areas via advances in observations, data assimilation, and modeling enable improved predictive capabilities for describing how future changes in atmospheric composition affect ozone, climate, and air quality. The average funding for the first year of the award is $145. Projects will not exceed three years in duration.
ROSES 2014: Heliophysics Guest Investigators (HGI)

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=397767/solicitationId=%7B346ABD21-8A6B-1AAC

Contact: Varies with research interest

Solicitation number: NNH14ZDA001N-HGI

The Heliophysics Guest Investigators (H-GI) program is offered for investigations that draw extensively upon the data sets from the missions of the Heliophysics System Observatory. Five Heliophysics Senior Review panels and the recent Decadal Survey have reviewed the H-GI program in the context of the activities of the operating missions. The reviews have uniformly endorsed a strong H-GI program to complement the mission-sponsored investigations. The H-GI program emphasizes the use of data from currently-operating NASA Heliophysics missions, including those missions with which NASA is an international partner. This call has three sub-elements. One sub-element focuses on creation of new data products of high scientific value from currently operating missions. The other two sub-elements support analysis and interpretation of new observations from recently-launched Heliophysics missions.

ROSES 2014: Remote Sensing Theory for Earth Science

National Aeronautics and Space Administration

http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={EBB22AE9-33EC-7B08-5DA3-52399F78B524}

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

Solicitation number: NNH14ZDA001N-RST

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

ROSES 2014: Heliophysics Infrastructure and Data Environment Enhancements (HIDEE)

National Aeronautics and Space Administration


Contact: Jeffrey Newmark, 202/358-0684, jeffrey.s.newmark@nasa.gov

Solicitation number: NNH14ZDA001N-HIDEE

The goal of the H-IDEE program is to enable breakthrough research in Heliophysics by providing both a state of the art data environment and necessary supporting infrastructure to maximize the scientific return of the NASA missions. This program has two main research thrusts, Data Environment Enhancements and Infrastructure. However, the Data Environment Enhancement element is not being competed in ROSES2014, but instead in a Corporate Agreement Notice (CAN). The funding for the first year of the award is $167K. The maximum project-period is three years.
ROSES 2014: Planetary Science and Technology Through Analog Research

National Aeronautics and Space Administration


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

Solicitation number: NNH14ZDA001N-PSTAR

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

ROSES 2014: Cassini Data Analysis and Participating Scientists

National Aeronautics and Space Administration


Contact: Christina Richey, 202/358-2206, HQ-CDAP@mail.nasa.gov

Solicitation number: NNH14ZDA001N-CDAPS

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

ROSES 2014: Mars Data Analysis

National Aeronautics and Space Administration


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

Solicitation number: NNH14ZDA001N-MDAP

The objective of the Mars Data Analysis Program (MDAP) is to enhance the scientific return from missions to Mars conducted by NASA and other space agencies. These include, but are not limited to, the following missions: Mars Pathfinder (MPF), Mars Global Surveyor (MGS), Mars Odyssey (MO), Mars Exploration Rovers (MERs), Mars Express (MEX), Mars Reconnaissance Orbiter (MRO), Phoenix (PHX), and the Mars Science Laboratory (MSL). MDAP broadens scientific participation in the analysis of mission data sets and funds high-priority areas of research that support planning for future Mars missions. MDAP supports scientific investigations of Mars using publicly available (released) data. Where justified to support planning for future Mars missions, investigations that use data derived from other sources (e.g., ground-based radar, Hubble) will also be considered. The maximum duration of a project period solicited under this FOA is four years.
FY2015 Publishing Historical Records in Documentary Editions

National Archives and Records Administration


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

 Solicitation number: CFDA 89.003

The National Historical Publications and Records Commission seeks proposals to publish documentary editions of historical records of national significance. Projects may focus on the papers of major figures from American life or cover broad historical movements in politics, military, business, social reform, the arts, and other aspects of the national experience. The goal of this program is to provide access to and editorial context for the historical documents and records that tell the American story.

Applicants may apply for funding for one year, and award amounts may range from $30K to $200K. Cost sharing is required as the Commission ordinarily provides no more than 50 per cent of total project costs.

6/16/2014 Pre-Application (optional)
8/27/2014 Application
10/1/2014 Pre-Application (optional)
12/4/2014 Application

FY15 Access to Historical Records

National Archives and Records Administration

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

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

Solicitation number: CFDA 89.003

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

National Endowment for the Humanities (NEH)

6/11/2014 Full Proposal

Bridging Cultures through Film - International Topics

National Endowment for the Humanities

http://www.neh.gov/grants/public/bridging-cultures-through-film-international-topics

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

Solicitation number: 20130612-TW

This program supports documentary films that examine international and transnational themes in the humanities. These projects are meant to spark Americans’ engagement with the broader world by exploring countries and cultures outside of the United States. Proposed documentaries must be analytical and deeply grounded in humanities scholarship. NEH invites a wide range of approaches to international and transnational topics and themes, such as: 1) an examination of a critical issue in ethics, religion, literature, or history, viewed through an international lens; 2) an exploration of a topic that transcends a single nation-state; 3) a biography of a foreign leader, writer, artist, or historical figure; or 4) an exploration of the history and culture(s) of a specific region, country, or community outside of the United States. Awards are for one to three years and for up to $75K for development and up to $800K for production.
Digital Projects for the Public

Digital Projects for the Public grants support projects that are largely created for digital platforms. While these projects can take many forms, shapes, and sizes, you should apply to this program primarily to create digital projects or the digital components of a larger project. NEH is a national funding agency, so these projects should demonstrate the potential to attract a broad, general audience. Projects can have specific targeted audiences (including K-12 students), but they should also strive to cultivate a more inclusive audience. All Digital Projects for the Public projects should:
1) deepen public understanding of significant humanities stories and ideas;
2) incorporate sound humanities scholarship;
3) involve humanities scholars in all phases of development and production;
4) include appropriate digital media professionals;
5) reach a broad public through a realistic plan for development, marketing, and distribution;
6) create appealing digital formats that will engage the general public; and
7) utilize widely available hardware and operating platforms.

Discovery awards (for up to $30K) are designed to fund the exploratory stages of a digital project. Activities must include consultation with scholars, refinement of the humanities themes, digital media development, and analysis of platforms. This is the stage at which the humanities ideas and digital technology should come together. Prototyping grants (for up to $100K) support the creation of a proof-of-concept prototype. Although cost sharing is not required, this program is rarely able to support the full costs of projects approved for funding.

Humanities Collections and Reference Resources

This program supports projects that provide an essential underpinning for scholarship, education, and public programming in the humanities. Funding from this program strengthens efforts to extend the life of materials such as collections of books and manuscripts, photographs, sound recordings, archaeological and ethnographic artifacts, and digital objects, and make their intellectual content widely accessible, often through the use of digital technology. Awards are also made to create various reference resources that facilitate use of cultural materials, from works that provide basic information quickly to tools that synthesize and codify knowledge of a subject for in-depth investigation. In most cases, grants cover no more than 50% to 67% of project costs. The maximum award for implementation projects is $350K, for up to three years. The maximum award for Foundations projects is $40K for up to two years.

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

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.
Research Supplements to Promote Diversity in Health-Related Research

National Institutes of Health, Cross-Institute

http://grants.nih.gov/grants/guide/pa-files/PA-12-149.html

Contact: Varies with research interest

Solicitation number: PA-12-149

NIH and the Centers for Disease Control and Prevention (CDC) hereby notify Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) holding specific types of NIH research grants, listed in the full FOA that funds are available for administrative supplements to improve the diversity of the research workforce by supporting and recruiting students, postdoctorates, and eligible investigators from groups that have been shown to be underrepresented in health-related research. This supplement opportunity is also available to PD(s)/PI(s) of research grants who become disabled and need additional support to accommodate their disability in order to continue to work on the research project. Administrative supplements must support work within the scope of the original project. Applications can be received at any time until the final deadline. The deadline varies with research interest. Direct costs for individual administrative supplements vary from less than $5K to more than $100K depending on the career level of the candidate.

Research Supplements to Promote Re-Entry into Biomedical and Behavioral Research Careers (Admin Supp)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-12-150

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

Development of Software and Analysis Methods for Biomedical Big Data in Targeted Areas of High Need (U01)

National Institutes of Health, Cross-Institute


Contact: David Miller, 240/276-6210, BD2K_targeted@mail.nih.gov

Solicitation number: RFA-HG-14-020

The purpose of this FOA is to solicit development of analysis methods and software in the four topic areas of data compression/reduction, data visualization, data provenance, and data wrangling as part of the overall BD2K initiative. In response to the spectacular opportunities and immense challenges presented by the dawning era of "Big Data" in biomedical research, NIH has developed the Big Data to Knowledge (BD2K) initiative with the mission of enabling the biomedical research community to use the various types of Big Data for research. Direct costs are limited to a maximum of $300K in each year of the three-year project period.
Partnerships for Diagnostics to Address Antimicrobial Resistance of Select Bacterial Pathogens (R01)

National Institutes of Health


Contact: Maureen Beanan, 301/451-3247, beananm@mail.nih.gov

Solicitation number: RFA-AI-14-019

The purpose of this FOA is to solicit research applications for projects focused on development and/or production of diagnostics that will enable rapid, sensitive, specific, culture-independent detection of high-priority antimicrobial-resistant Gram-negative bacterial pathogens. This FOA is focused on select healthcare-associated bacteria where resistance compromises effective treatment, including: Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa, Enterobacter species and extra-intestinal pathogenic Escherichia coli. Applications must include a Product Development Strategy and demonstrate substantive participation by at least one industrial participant. Budgets for direct costs of up to $750K per year may be requested. In addition, applicants may request up to a total of $300K for major equipment in the first year of the award to ensure that research aims can be met and biohazards can be contained. The maximum project period is five years.

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

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


Contact: Varies with research interest

Solicitation number: PAR-12-296

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

Bioengineering Research Partnerships (BRP) R01

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-14-092

This FOA encourages bioengineering applications that will accelerate the development and adoption of promising tools and technologies that can address important biomedical research problems. The objectives are to establish these tools and technologies as robust, well-characterized solutions that fulfill an unmet need and are capable of enhancing our understanding of life science processes or the practice of medicine. Awards will focus on supporting multidisciplinary teams that apply an integrative, quantitative bioengineering approach to developing these technologies and engage biomedical researchers or clinicians throughout the project. The goal of the program is to support projects that can realize meaningful solutions within 5-10 years. This FOA runs in parallel with FOAs of identical scientific scope, PA-12-284 and PAR-13-137, that utilize the R21 Exploratory/Developmental Grant and R01 Research Project Grant mechanisms.
International Research Ethics Education and Curriculum Development Award (R25) - Limited Submission

National Institutes of Health


Contact: Barbara Sina, 301/402-9467, sinab@mail.nih.gov

Solicitation number: PAR-13-027

The NIH requests Research Education Grant (R25) applications from institutions/organizations that propose to develop masters level curricula and provide educational opportunities for developing country academics, researchers and health professionals in ethics related to performing research involving human subjects in international resource poor settings. Applicants can request up to five years of support for up to $230K direct costs per year for a new application for a comprehensive masters level curriculum development and educational programs.

Undiagnosed Diseases Gene Function Research (R21)

National Institutes of Health


Contact: Donna Krasnewich, 301/594-0943, dkras@nigms.nih.gov

Solicitation number: RFA-RM-14-005

This Exploratory/Developmental Research Funding Opportunity intends to support gene function studies in collaboration with the Undiagnosed Diseases Network (UDN) building upon the NIH Intramural Research Program's Undiagnosed Diseases Program (NIH-UDP). Responsive applications will propose to investigate the underlying genetics, biochemistry and/or pathophysiology of newly diagnosed diseases in association with the respective gene variant(s) identified through the UDN. In recent years, gene function studies combined with genetic and genomic analyses and metabolic studies have greatly improved diagnoses of these very rare diseases and advanced scientific knowledge of the underlying pathogenesis. This initiative is funded through the NIH Common Fund, which supports cross-cutting programs that are expected to have exceptionally high impact. Application budgets should not exceed $150K direct costs per year in FY15 and FY16. The total award period for this FOA is two years.

High Impact Neuroscience Research Resource Grants (R24)

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


Contact: Edmund Talley, 301/496-1917, TalleyE@mail.nih.gov

Solicitation number: RFA-NS-14-006

This FOA supports high impact efforts to provide resources for neuroscience research. Projects should address compelling needs of broad communities of neuroscience researchers or should offer unique services that otherwise would be unavailable. Applications can propose new tools, reagents or services, innovative approaches to scaling and/or economizing existing resources, or introduction of resources to wider user groups. Projects responsive to this FOA should engage one or more of the following types of activities: 1) Propagation of newly developed, cutting edge reagents or techniques that are not widely available or easily obtained; 2) Broadening the impact of important existing resources by bringing them to new user groups for whom access would not otherwise be available; and 3) Innovative approaches to increase the scale and efficiency of existing valuable resources. Applications must propose a plan designed to have a substantial impact on the quality of neuroscience research by virtue of the provided resources. Support may be requested for an average direct cost of up to $175K per year, with no more than $300K direct cost in any given year, for up to four 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.

NIDCD Research Grants for Translating Basic Research into Clinical Tools (R01) Grant

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: PAR-14-009

The NIDCD is encouraging applications which translate basic research findings into clinical tools for better human health in the NIDCD mission areas of hearing, balance, smell, taste, voice, speech and language. The intent of this FOA is to provide a new avenue for basic scientists, clinicians and clinical scientists to jointly initiate and conduct translational research projects. The scope of this FOA includes a range of activities to encourage translation of basic research findings which will impact the diagnosis, treatment and prevention of communication disorders. Multi-institutional, multi-disciplinary, and academic-industrial collaborations studies are encouraged. This FOA is not intended for health services/outcome studies, the extension of ongoing clinical research studies, the optimization of current clinical protocols, or pre-translational studies. Connection to the clinical condition must be clearly established and the outcomes of the grant must have practical clinical impact. The maximum project period is five years.

NINDS Program Project Grant (P01)

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


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

Solicitation number: PAR-14-183

This FOA enables submission of program project grant applications that propose to conduct innovative, interactive research to answer significant scientific questions that are important for the mission of NINDS, via a synergistic collaboration between outstanding scientists who might not otherwise collaborate. The program project grant mechanism is designed to support research in which the funding of several interdependent highly meritorious projects as a group offers significant scientific advantages over support of these same projects as individual research grants. The maximum project period for these awards is five years.
Network Infrastructure Support for Emerging Areas of Research in the Basic Biology of Aging (R24)

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


Contact: Felipe Sierra, 301/496-6402, sierraf@nia.nih.gov

Solicitation number: PAR-11-266

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

NINDS Research Education Opportunities (R25)

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


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

Solicitation number: PAR-13-240

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

Jointly Sponsored Ruth L. Kirschstein National Research Service Award Institutional Predoctoral Training Program (T32)

National Institutes of Health

http://grants.nih.gov/grants/guide/pa-files/PAR-12-084.html

Contact: Varies

Solicitation number: PAR-12-084

The Jointly Sponsored NIH Predoctoral Training Program in the Neurosciences supports broad and fundamental research training in the neurosciences via institutional NRSA research training grants (T32) at domestic institutions of higher education. Trainees appointed to this training grant are financially supported for either one or two years, during the first 2 years of their graduate research training. The primary objective is to prepare individuals for careers in neuroscience that have a significant impact on the health-related research needs of the Nation. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project period is five years.

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

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-14-015

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

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.

Center for Advancing Natural Products Innovation and Technology (U41)

This FOA is soliciting applications to establish a national Center for Advancing Natural Product Innovation and Technology (CANPIT). The goal of this initiative is to improve upon and strengthen technologies and methods used in natural products research. The CANPIT, supported through the U41 cooperative agreement funding mechanism, is expected to overcome existing research limitations by developing and/or adapting cutting edge, innovative approaches and technologies that will have significant impact on the chemical and biological investigation of natural products. Importantly, the CANPIT is expected to serve a leadership role; coordinating intellectual scientific discourse and disseminating assembled methodology and best practices to the natural product research community. This FOA is being released in conjunction with the ODS Botanical Dietary Supplement Research Centers Program (see companion FOA, RFA-OD-14-001). Applicants applying under this CANPIT FOA are encouraged to collaborate with the Botanical Dietary Supplement Research Centers, and other NCCAM, ODS, and NIH supported grantees through CANPIT Technology Demonstration Projects (TDPs). Application budgets are limited to $750K in direct costs over a maximum five-year project period.

Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences -

The goal of this NIH Blueprint R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. To this end, this funding opportunity announcement encourages the development of creative educational activities with a primary focus on Research Experiences, Courses for Skills Development, and Mentoring Activities. The fully integrated research experiences, courses for skills development, and mentoring activities should prepare undergraduate students from diverse backgrounds nationally underrepresented in biomedical and behavioral sciences to enter Ph.D. degree programs in the neurosciences. To accomplish this goal, this initiative will provide institutional awards to develop neuroscience research education programs consisting of collaborative partnerships integrated across different educational institution types. Each collaborative research education partnership must have the following components: a) a research-intensive institution that has an established neuroscience or neuroscience-related program, b) partnership between institution(s) that have a substantial enrollment of undergraduates from populations nationally underrepresented in the biomedical and behavioral sciences, c) integrated curriculum/academic enhancement and research training activities designed to increase participants' preparation to enter doctoral programs in the neurosciences, and d) well-described plans to provide early communication and interaction between participating students and graduate neuroscience programs across the country.
Understanding and Promoting Health Literacy (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-130

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

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

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

[link](http://grants.nih.gov/grants/guide/pa-files/PA-14-014.html)

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

Solicitation number: PA-14-014

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

Neuroimmune Mechanisms of Alcohol Related Disorders (R01)

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

[link](http://grants.nih.gov/grants/guide/pa-files/PA-14-139.html)

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

Solicitation number: PA-14-139

This FOA encourages proposals to study the neuroimmune mechanisms of alcohol related disorders. Studies supported by this FOA will provide fundamental insights of neuroimmune mechanisms underlying brain functional and behavioral changes induced by alcohol. This FOA runs in parallel with PA-14-138, which solicits applications under the R21 Exploratory/Developmental Grant mechanism.
Research on Autism and Autism Spectrum Disorders (R01)
National Institutes of Health, Cross-Institute
Contact: Lisa Gilotty, 301/443-3825, gilottyl@mail.nih.gov
Solicitation number: PA-13-216
This FOA encourages research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, treatment, and optimal means of service delivery in relation to autism spectrum disorders. Basic, clinical, and applied studies are encouraged. This FOA runs in parallel with two FOAs of identical scientific scope, PA-10-159 and PA-10-160, which encourage applications under the R03 and R21 mechanisms, respectively.

Reducing Health Disparities Among Minority and Underserved Children (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-14-033
This FOA solicits applications that propose to conduct research to reduce health disparities among minority and underserved children. Specifically, this initiative focuses on ethnic and racial minority children and underserved populations of children. Specific targeted areas of research include biobehavioral studies that incorporate multiple factors that influence child health disparities such as biological, lifestyle factors, environmental, social, economic, institutional, and cultural and family influences; studies that target the specific health promotion needs of children with a known illness and/or disability; and studies that test and evaluate the comparative effectiveness of health promotion interventions conducted in traditional and nontraditional settings. The maximum project period is five years. The companion FOA is PA-11-105, which solicits applications under the R21 mechanism.

Ancillary Studies to the NIDDK Intestinal Stem Cell Consortium (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Contact: Jill Carrington, 301/402-0671, carringj@mail.nih.gov
Solicitation number: PAR-13-066
This FOA is to encourage applications to conduct ancillary studies to the NIDDK Intestinal Stem Cell Consortium (ISCC). Studies will make use of consortium collaborations, techniques, and resources to accelerate research into intestinal stem cells. The proposed ancillary study must be designed to advance the scientific research mission of the NIDDK by focusing on diseases and areas of interest to the Institute and commensurate with the interests and intent of the ISCC. The maximum period is five years.

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

National Institutes of Health, Cross-Institute


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

Solicitation number: PA-14-068

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

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.

---

**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)
National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institute on


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.

---

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

Building a Genetic and Genomic Knowledge Base in Dental, Oral, and Craniofacial Diseases and Disorders (R01)
National Institutes of Health, National Institute of Dental and Craniofacial Research (NIDCR)
Contact: Emily Harris, 301/594-4846, emily.harris@nih.gov
Solicitation number: PA-11-317
This FOA encourages research into dental, oral, and craniofacial diseases and disorders for which there is evidence for genetic heritability but for which we do not have a strong understanding of the genetics/genomics of the disease or disorder. Applicable areas of investigation include identification of promising areas of the genome, and characterization and elucidation of the function(s) of genetic variants that affect disease risk in humans. The ultimate goal of these studies will be to drive development of effective diagnostic, therapeutic, and preventive approaches. The maximum project period is five years.

Renal Function and Chronic Kidney Disease in Aging (R01)
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute on Aging
http://grants.nih.gov/grants/guide/PA-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)
http://grants.nih.gov/grants/guide/PA-12-213.html
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 Institu


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)

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)

http://grants.nih.gov/grants/guide/pa-files/PA-12-221.html

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

Solicitation number: PA-12-221

This FOA encourages research projects for the development and validation of biomarkers for: a) early detection, prediction of progression, and recurrence of hematopoietic malignancies, especially in high-risk individuals; and, b) for risk assessment of primary and secondary hematopoietic malignancies. This FOA also encourages the development and improvement of specific technologies and methods for quantitative detection of novel biomarkers associated with hematopoietic malignancies. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-12-220, that utilizes the R21 Exploratory/Developmental Research Grant Award.
Unconventional Roles of Ethanol Metabolizing Enzymes, Metabolites, and Cofactors in Health and Disease (R01)

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


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

Solicitation number: PA-14-198

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

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

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

http://grants.nih.gov/grants/guide/pa-files/PA-12-299.html

Contact: Varies with research interest

Solicitation number: PA-12-299

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

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


Contact: Varies with research interest

Solicitation number: PA-11-200

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

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

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


Contact: Terry Bishop, 301/594-7726, tb232j@nih.gov

Solicitation number: PAS-13-031

The overall objectives of the SHINE program are to catalyze discoveries in basic molecular and cellular biology that provide new insights into the pathogenesis, prevention, detection, and potential treatment of disease, to attract new investigators into basic and translational hematology research, to promote productive interdisciplinary research collaborations, and to reinforce interactions and communication between NIDDK and the hematology research community. Specific research objectives supported by the SHINE program in this initial announcement are: 1) Regulatory Determinants of Hematopoietic Stem Cell Fate; 2) Stress Erythropoiesis; 3) Biology and Pathophysiology of Myelodysplastic Syndromes (MDS); 4) Ribosomes and Their Role in Disease; 5) Heme Regulation during Erythropoiesis; 6) Anemia of Inflammation and of Chronic Disease; and 7) Iron Overload. NIH intends to fund an estimate of two to four awards, corresponding to a total of $1M for FY 2013. The maximum project period is five years.
Erythropoiesis - Components and Mechanisms (R01)

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


Contact:  Varies with research interest

Solicitation number:  PA-13-034

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

Solid Organ Transplantation - Older Donors and Recipients (R01)

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


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

Solicitation number:  PA-13-030

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

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 policies on the home and community environment and body weight. The Social Ecological Framework is one of several frameworks that can be used to examine the interrelations among policies aimed at the school and home environment, individual diet and physical activity behaviors and weight outcomes. Application budgets are not limited but need to reflect the actual needs of the project. The maximum project period is five years. This FOA runs in parallel with other FOAs of identical scientific scope: 1) PA-13-099, which utilizes the R03 Small Grant Program mechanism; and 2) PA-13-098, which utilizes the R21 Exploratory/Developmental Grant mechanism.
Disorders of Human Communication - Effectiveness, Outcomes and Health Services Research (R01)
National Institutes of Health, National Institute on Deafness and Other Communication Disorders (NIDCD)
Contact: Amy Donahue, 301/402-3458, donahuea@nidcd.nih.gov
Solicitation number: PA-13-102
The purpose of this FOA is to support effectiveness, outcomes and health services research in the NIDCD mission areas of hearing, balance, smell, taste, voice, speech and language. Outcomes research seeks to determine to what degree an intervention works in patients/populations in general, real-world settings, such as in diverse populations and diverse provider and clinical practice settings. Outcomes research (often referred to as effectiveness research) applications should seek to measure, evaluate and/or improve patient-centered outcomes following intervention for communication disorders. Health Services Research examines the impact of organization, financing and management of health care services on the delivery, quality, cost, access to and outcomes of such services, including demographic, social, economic, and health system factors as they relate to providing preventive, screening, diagnostic, treatment and rehabilitative services. Research may focus on any/all the different factors that impact access, utilization, and quality and outcomes of health care services. Application budgets are not limited but need to reflect the actual needs of the project. The maximum project period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PA-13-103, which utilizes the R21 Exploratory/Developmental Grant mechanism.

Obesity Policy Evaluation Research (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-110
Obesity is a major contributor to many serious health conditions that increase morbidity and mortality and reduce quality of life. The prevalence of obesity in children and adults in the United States has dramatically increased in the past four decades. Nationally there is an imperative to take action at local, state and federal levels, especially related to obesity in children. While helping people achieve and maintain a healthy weight is a critical public health goal, relatively little is known about the effectiveness of large scale policies and programs that could help achieve this goal at the population level, or any differential effects on sub-populations. Institute Specific Interests include: 1) NIDDK is particularly interested in the evaluation of large scale weight related programs or policy that are targeted to obesity and/or diabetes prevention; 2) NHLBI is especially interested in research on programs and policies that target cardiovascular disease risk factors such as obesity, diabetes, and adverse health behaviors (physical inactivity, poor dietary behaviors, sleep disorders); 3) NICHD is interested in applications that propose to evaluate the impact of weight related policies or programs on children, families, pregnant women, or children with disabilities; 4) NCI is particularly interested in the evaluation of programs or policies that may affect dietary or physical activity behavior and/or weight, and studies incorporating economic research; and 5) NIA is especially interested in research on programs and policies affecting sedentary behavior and physical activity among older adults, including programs and policies based on research in behavioral economics. The maximum project period is five years.
Mechanistic Insights from Birth Cohorts (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-109

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

Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-114

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

Mechanisms, Models, Measurement, & Management in Pain Research (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-118

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

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


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

Solicitation number: PA-13-121

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

Bioengineering Research Grants (BRG) (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-13-137

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

Addressing Health Disparities in NIDDK Diseases (R01)

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


Contact: Varies with research interest

Solicitation number: PA-13-183

The NIDDK seeks research to improve understanding of the causes of high priority diseases in the United States and to develop and test more effective interventions for reducing/eliminating health disparities. Research is encouraged in the following high priority diseases within the scientific mission areas of the NIDDK: diabetes, obesity, nutrition-related disorders, hepatitis C, gallbladder disease, H. Pylori infection, sickle cell disease, kidney diseases, urologic diseases, hematologic diseases, metabolic, gastrointestinal, hepatic, and renal complications from infection with HIV. Research approaches may include metabolic, genetic, clinical, behavioral, and/or epidemiologic studies in representative populations. Application budgets are not limited, but must reflect the actual needs of the proposed project. The maximum project period is five years.
Mechanisms of Alcohol and Nicotine Co-Addiction (R01)
National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Contact: Ivana Grakalic, 301/443-7600,igrakalic@mail.nih.gov
Solicitation number: PA-13-194
The NIAAA encourages grant applications to examine mechanisms contributing to concurrent alcohol and nicotine dependence. Co-occurring alcohol and nicotine dependence is common. Research suggests that alcohol dependence and nicotine dependence have similar genetic, neurochemical and behavioral characteristics. It is not well understood, however, whether common mechanisms underlie the comorbidity of alcohol and nicotine use and dependence. The purpose of this FOA is to promote research to study neurobiological and behavioral mechanisms of dependence and how alcohol and nicotine use interact through these mechanisms to promote dependence. Such an understanding is essential to guide the development of better prevention and treatment strategies for alcohol and nicotine co-abuse. The maximum project period is five years. This FOA runs in parallel with another FOA of identical scientific scope, PA-13-193, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Home and Family Based Approaches for the Prevention or Management of Overweight or Obesity in Early Childhood
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PA-13-153
This FOA invites Research Project Grant (R01) applications from institutions/organizations that propose randomized clinical trials testing novel home- or family-based interventions for the prevention or management of overweight in infancy and early childhood. Tested interventions can use behavioral (including dietary and physical activity), environmental, or other relevant approaches. Applications should focus on infants and young children and emphasize the role of home environment and the influence of family/extended family members and parents (including guardians/substantial care-providers) within the child's home environment. Research should consider the familial mechanisms of behavior such as the role of families in the initiation, support, and reinforcement of fundamental food and beverage consumption, physical activity practices, and sedentary behaviors. In addition it is of interest to elucidate various underlying behavioral determinants that are crucial to initiate or sustain changes in behaviors that impact energy balance. Research designs may include linkages with other settings (e.g., daycare, pre-school, or other community venues) or other care providers (e.g., health care providers or teachers) but must include infants or children less than age six years as the primary study participant along with parents, and/or other family members residing with the child. The overarching goal is to identify interventions that influence parent and child behaviors that contribute to inappropriate weight gain, and thereby improve subsequent health status in childhood, adolescence, and adulthood for which overweight is a known risk factor. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. This FOA runs in parallel with a FOA of identical scientific scope, PA-13-154, that utilizes the R21 Exploratory/Developmental Grant mechanism.

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

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


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

Solicitation number: PA-13-209

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

1) Develop and test tools that measure trust between partners in engagement efforts;
2) Develop and test tools that measure capacity/readiness for research efforts;
3) Develop and test tools to measure successful partnership/collaboration in engagement efforts;
4) Develop reliable and valid tools that can be used in measuring community engaged research efforts that impact individual outcomes such as trust, capacity, empowerment, and collaboration;
5) Use established statistical procedures to test existing or newly developed instruments;
6) Develop and test instruments that measure the success or failure of partnership efforts;
7) Apply existing tools in measuring community engaged research efforts;
8) Develop and test scientific measures of sustainability for health improvement programs; and
9) Develop and test scientific outcome measures related to improving health disparities.

The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-13-212, that utilizes the R21 Exploratory/Developmental Grant mechanism.

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

National Institutes of Health


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

Solicitation number: PA-11-199

This FOA looks to bridge the chasm that currently exists between consumer health IT designers and the users themselves, by bolstering basic research to better understand users’ PHIM practices, needs, and goals as they are intrinsically shaped by an array of contextual factors. Each application must clearly identify at least one of these research areas as the primary research area to be addressed:

1) The needs and preferences of diverse user groups in different contexts;
2) User goals, activities, and personal health information management practices;
3) User capacities (e.g., cognitive, physical, health literacy);
4) User motivation (including beliefs and preferences); and
5) Identifying “expert” user groups (e.g., frequent health care consumers and their caregivers) and studying them as models.

The total costs awarded to a grant under this FOA will not exceed $500K per year for up to five years.

Research on Autism Spectrum Disorders (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-13-216

This FOA encourages research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, treatment, and optimal means of service delivery in relation to autism spectrum disorders (ASD). Basic, clinical, and applied studies are encouraged. Areas of interest include, but are not limited to, the following:

1) Epidemiology;
2) Screening, Early Identification, and Diagnosis;
3) Genetic Studies;
4) Brain Mechanisms;
5) Shared Neurobiology of Autism with Fragile X, Rett Syndrome, and Related Disorders;
6) Cognitive Science;
7) Communication Skills;
8) Pharmacological/Biological Interventions;
9) Pharmacogenomic Studies;
10) Psychosocial/Behavioral Interventions; and
11) Services Research.

Application budgets are not limited and the total project period may not exceed 5 years. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-217, which utilizes the R21 Exploratory/Developmental Grant mechanism; and PA-13-218, which utilizes the R03 Small Grant Program mechanism.
**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 Giaconia, 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


Contact: Varies with research interest

Solicitation number: PAR-13-306

This FOA encourages grant applications from institutions or organizations that propose multidisciplinary, investigator-initiated basic and translational research in developmental pharmacology and toxicology. Particular emphasis should be placed on the role of ontogeny on drug metabolizing enzymes, transporters, receptors and signaling pathways across developmental periods from fetal life to adolescence affecting drug action and toxicity. This initiative is aimed at unraveling the effects of development on mechanisms of drug action/ pharmacodynamics and biotransformation, prenatally and from birth through adolescence. Application budgets are not to exceed five years. This FOA runs in parallel with FOAs of identical scientific scope, PAR-13-308 and PAR-13-307, that utilize the R21 Exploratory/Developmental Grant and Small Grant Program mechanisms, respectively.
Intersection of Aging and Biological Mechanisms of Eye Disease (R01)

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


Contact: Varies with research interest

Solicitation number: PA-13-332

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

Development of Mathematical Cognition & Reasoning & the Prevention of Math Learning Disabilities

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


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

Solicitation number: PA-12-248

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

Mechanisms of Alcohol and Stimulant Co-Addiction (R01)

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


Contact: Ivana Grakalic, 301/443-7600, igrakalic@mail.nih.gov

Solicitation number: PA-13-339

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

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

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)

Genetic and genomic studies have identified genes and gene variants that potentially modulate the fundamental biological mechanisms underpinning addictive processes. Discovery of these genes/variants, while extremely valuable, is only a first step in understanding molecular mechanisms of addiction. This FOA encourages basic functional genomic research in two areas: 1) functional validation to determine which candidate genes/variants/epigenetic/non-coding RNA features have an authentic role in addictive processes; and 2) detailed elucidation of the molecular pathways and processes modulated by candidate genes/variants, particularly for those genes with an unanticipated role in addiction.
The Molecular Genetics of Drug Addiction and Related Co-Morbidities (R01)

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


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

Solicitation number: PA-14-025

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

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

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


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

Solicitation number: PAS-14-020

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

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


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

Solicitation number: PA-14-061

This FOA is intended to stimulate model-driven research to understand the ways that people make decisions about engaging in behaviors that impact the risk of acquiring or transmitting HIV, or to adhere to treatments for HIV. Decision making processes may contribute to both substance use/abuse and other HIV acquisition or transmission risks. A better understanding of decision making processes in the context of brain neural networks and their associated functions would lead to the development of better strategies to reduce the frequency of HIV-risk behaviors. Therefore, this FOA encourages applications to study 1) cognitive, motivational or emotional mechanisms and/or 2) brain neuroendocrine and reinforcement systems that relate 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 is more appropriate for the complementary FOA's using the R21 or R03 mechanisms. In no cases, should research involving animals be proposed. This FOA runs in parallel with a FOAs of identical scientific scope, PA-14-062 and PA-14-063, that utilize the R21 Exploratory/Developmental Grant and R03 Small Grant Program mechanisms, respectively.

---

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

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


Contact: Varies with research interest

Solicitation number: PA-14-056

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

---

**NIDCD Research on Hearing Health Care (R01)**

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


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

Solicitation number: PA-14-091

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

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


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

Solicitation number: PA-14-137

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

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

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

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

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

Solicitation number: PA-14-123

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

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

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


Contact: Varies with research interest

Solicitation number: PA-14-126

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

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


Contact: Varies with research interest

Solicitation number: PA-14-127

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

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

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


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

Solicitation number: PA-14-112

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

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

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-14-114

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

The NIH is interested in promoting a broad base of research and development of technologies in biomedical computing, informatics, and Big Data Science that will support rapid progress in areas of scientific opportunity in biomedical research. It is expected that this research and development is conducted in the context of important biomedical and behavioral research problems. As such, applications are intended to develop enabling technologies that could apply to the interests of most NIH Institutes and Centers and range from basic biomedicine and including research to all relevant organ systems and diseases. Major themes of research include collaborative environments; data integration; analysis and modeling methodologies; and novel computer science and statistical approaches. New opportunities are also emerging as large and complex data sets are becoming increasingly available to the research community. This initiative aims to address biomedical research areas in biomedical computing, informatics, and Big Data science through the early stage development of new software, tools and related resources, as well as the fundamental research (e.g., methodologies and approaches) leading up to that development. Acceptable budgets are not to exceed $300K direct costs per year over a maximum project period of three years. This FOA runs in parallel with FOAs of identical scientific scope, PA-14-156, PA-14-154 and PA-14-157, that utilize the R01, R43/R44 and R41/R42 grant mechanisms, respectively.

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

The goal of this program announcement is to support the extended development, maintenance, testing, evaluation, hardening and dissemination of existing biomedical software. The NIH is interested in promoting a broad base of research and development of technologies in biomedical computing, informatics, and Big Data Science that will support rapid progress in areas of scientific opportunity in biomedical research. It is expected that this research and development is conducted in the context of important biomedical and behavioral research problems and that domain researchers are consulted to make sure that the software is relevant to users. As such, applications are intended to develop enabling technologies that could apply to the interests of most NIH Institutes and Centers and range from basic biomedicine and including research to all relevant organ systems and diseases. Major themes of research include collaborative environments; data integration; analysis and modeling methodologies; and novel computer science and statistical approaches. New opportunities are also emerging as large and complex data sets are becoming increasingly available to the research community. The proposed work should apply best practices and proven methods for software design, construction, and implementation to extend the applicability of existing technologies in biomedical computing, informatics and big data science to a broader biomedical research community. The maximum duration of a project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-14-155, PA-14-154 and PA-14-157 that utilize the R21, R43/R44 and R41/R42 grant mechanisms, respectively.
Temporal Dynamics of Neurophysiological Patterns as Potential Targets for Treating Cognitive Deficits in Brain Dis

A rich body of evidence suggests that cognitive processes are associated with particular patterns of neural activity. These data indicate that oscillatory rhythms, their co-modulation across frequency bands, spike-phase correlations, spike population dynamics, and other patterns might be useful drivers of therapeutic development for cognitive improvement in neuropsychiatric disorders. This initiative encourages applications to test whether modifying electrophysiological patterns during behavior can improve cognitive abilities. Applications should use experimental designs that incorporate active manipulations to address at least one, and ideally more, of the following topics: (1) in behaving animals, determine which parameters of neural coordination, when manipulated in isolation, improve particular aspects of cognition; (2) in animals or humans, determine how particular abnormalities at the cellular or molecular level, such as specific receptor dysfunction, affect the coordination of electrophysiological patterns during behavior; (3) determine whether in vivo, systems-level electrophysiological changes in behaving animals predict analogous electrophysiological and cognitive improvements in normal humans or clinical populations; and (4) use systems-level computational modeling to develop a principled understanding of the function and mechanisms by which oscillatory and other electrophysiological temporal dynamic patterns unfold across the brain (cortically and subcortically) to impact cognition. Projects are limited to five years in duration. This FOA runs in parallel with a FOA of identical scientific scope, PAR-14-158, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Biology of Manual Therapies (R01)

This FOA encourages research grant applications (R01) from institutions/organizations that propose to investigate the basic science and mechanisms of action underlying the neurophysiological (especially the central nervous system responses), immunological, endocrinological and/or biomechanical consequences of manual therapies, such as spinal manipulation, mobilization and massage therapy. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-167, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Clinical Studies of Mental Illness Not Involving Treatment Development, Efficacy, or Effectiveness Trials (Collaborat

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

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


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

Solicitation number: PA-12-219

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

---

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

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


Contact: Varies with research interest

Solicitation number: PA-14-177

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

---

**Innovative Programs to Enhance Research Training (IPERT)**

National Institutes of Health, National Institute of General Medical Sciences (NIGMS)


Contact: Michael Sesma, 301/594-3900, msesma@mail.nih.gov

Solicitation number: PAR-14-170

This FOA seeks applications that propose creative and innovative educational activities to complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. The goal of this NIGMS R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. To this end, this FOA encourages activities with a primary focus on courses for skills development, structured mentoring activities, and outreach programs. The maximum period is five years.
Detection of Pathogen-Induced Cancer (DPIC) (R01)

National Institutes of Health, National Cancer Institute (NCI)

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

Solicitation number: PAR-13-190

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

Imaging and Biomarkers for Early Cancer Detection (R01)

National Institutes of Health, National Cancer Institute (NCI)

Contact: Varies with research interest

Solicitation number: PAR-13-189

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

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.
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 chemotheraphy-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.

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.
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)
National Institutes of Health, Cross-Institute
Contact: 301/435-0714, GrantsInfo@nih.gov
Solicitation number: PA-13-304
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)
National Institutes of Health, Cross-Institute
Contact: 301/435-0714, GrantsInfo@nih.gov
Solicitation number: PA-13-303
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 may be requested in any single year.

The Role of the Cytoskeleton in Cellular Aging (R21 & R33)
National Institutes of Health, National Institute on Aging (NIA)
Contact: José Velázquez, 301/496-6428, jvelazqu@mail.nih.gov
Solicitation number: PAR-13-301
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.

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.
Tobacco Control Regulatory Research (R01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-12-267

The purpose of this FOA is to encourage biomedical, behavioral, and social science research that will inform the development and evaluation of regulations on tobacco product manufacturing, distribution, and marketing. Research projects must address the research priorities related to the regulatory authority of the Food and Drug Administration (FDA) Center for Tobacco Products (CTP) as mandated by the Family Smoking Prevention and Tobacco Control Act (FSPTCA), Public Law 111-31. The awards under this FOA will be administered by NIH using designated funds from the FDA CTP for tobacco regulatory science. Research results from this FOA are expected to generate findings and data that are directly relevant to inform the FDA’s regulation of the manufacture, distribution, and marketing of tobacco products to protect public health. Application budgets are not limited, but need to reflect actual needs of the proposed project. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope: PAR-12-266, which utilizes the R21 Exploratory/Developmental Grant mechanism, and PAR-12-268, which utilizes the R03 Small Grant Program mechanism.

Accelerating Medicines Partnership (AMP) in Type 2 Diabetes (U01)
National Institutes of Health
Contact: Beena Akolkar, 301/594-8812, akolkarb@mail.nih.gov
Solicitation number: RFA-DK-14-003

This FOA invites applications for the Accelerating Medicines Partnership (AMP) in Type 2 Diabetes (T2D-GENES) consortium. The AMP T2D-GENES will build on and expand the previous work of the T2D GENES consortium. The aim of the consortium is to characterize the genetic variations in human genomic regions that have been putatively associated with type 2 diabetes (T2D) and conduct follow-up functional studies of particular genetic variants. The data coordinating center for the consortium is being solicited via the companion FOA, RFA-DK-14-503. Application budgets are expected to average, but are not limited to, $300K in direct costs per year with a maximum project-period of five years. This FOA runs in parallel with a FOA of identical scientific scope, RFA-DK-14-503, that utilizes the U01 Research Project – Cooperative Agreements mechanism.

Chronic Wounds: Advancing the Science from Prevention to Healing (R01)
National Institutes of Health
Contact: Lois Tully, 301/594-5968, tullyla@mail.nih.gov
Solicitation number: RFA-NR-15-001

This FOA seeks to stimulate research that will increase the understanding of biological and psychosocial factors associated with development, progression, and repair of chronic wounds (e.g., diabetic ulcers, pressure ulcers, venous and arterial ulcers) and associated adverse outcomes, and to develop and test interventions aimed at preventing the onset of chronic wounds, expediting the healing process, or alleviating wound-related symptoms. It is anticipated that the findings from this research will expand the body of knowledge needed to identify individuals at the highest risk for developing chronic wounds and to inform the search for tailored treatments to improve outcomes and quality of life for millions of persons at risk for or suffering from chronic wounds. Application budgets are limited to $350K in direct costs in any year over a maximum duration of five years.
6/26/2014  Application
10/28/2014  Application

**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.

**Predoctoral Training in Biomedical Big Data Science (T32)**
National Institutes of Health, Cross-Institute

Contact: Varies with research interest
Solicitation number: RFA-HG-14-004
The purpose of this FOA is to solicit applications for graduate training programs in Big Data Science, for the expressed purpose of training the next generation of scientists who will develop computational and quantitative approaches and tools needed by the biomedical research community to work with biomedical Big Data in the biomedical sciences (see definition under Funding Opportunity Description). This proposed training initiative should prepare qualified individuals for careers in developing new technologies and methods that will allow biomedical researchers to maximize the value of the growing volume and complexity of biomedical data. Awards will be made for five years. This FOA runs in parallel with FOAs of identical scientific scope, RFA-HG-14-005 and RFA-HG-14-006, that utilize the T32 Institutional National Research Service Award (NRSA) and T15 Continuing Education Training Grants mechanisms, respectively.

**Revisions to Add Biomedical Big Data Training to Active Institutional Training Grants (T32)**
National Institutes of Health, Cross-Institute

Contact: Varies with research interest
Solicitation number: RFA-HG-14-005
The purpose of this FOA is to solicit revisions (competitive supplements) to add a Big Data Science track to currently funded T32 institutional training grants for the expressed purpose of training the next generation of scientists who will develop computational and quantitative approaches and tools needed by the biomedical research community to work with biomedical Big Data in the biomedical sciences (see definition under Funding Opportunity Description). This proposed training initiative should prepare qualified individuals for careers in developing new technologies and methods that will allow biomedical researchers to maximize the value of the growing volume and complexity of biomedical data. The training grant to which the revision will be made should have a minimum of three years remaining at the time of application. Awards will be made as revisions to the parent T32 and cannot exceed the project period of the parent award. This FOA runs in parallel with FOAs of identical scientific scope, RFA-HG-14-004 and RFA-HG-14-006, that utilize the T32 Institutional National Research Service Award (NRSA) and T15 Institutional Training Grants mechanisms, respectively.
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.

Advancing Exceptional Research on HIV/AIDS and Substance Abuse (R01)

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


Contact: Jacques Normand, 301/443-1470, jnormand@nida.nih.gov

Solicitation number: RFA-DA-15-005

This FOA will support highly innovative R01 applications on HIV/AIDS and drug abuse and will complement the Avant-Garde Award Program for HIV/AIDS research. The Avant-Garde award supports individuals who conduct high-risk, high-reward research and does not require a detailed research plan. Applications submitted under this FOA are expected to have a detailed research plan and preliminary data. This FOA focuses on innovative research projects that have the potential to open new areas of HIV/AIDS research and/or lead to new avenues for prevention and treatment of HIV/AIDS among substance abusers. The nexus with substance abuse should be clearly described. This FOA is open to both individual researchers and research teams and is not limited to any one area of research on HIV and substance use. NIDA intends to commit $2M in FY 2015 to fund 2-3 awards that will be funded over a five-year maximum project period.

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.

Novel Technologies for Rapid and Sensitive Biomonitoring in Humans

National Institutes of Health, National Institute of Environmental Health Sciences (NIEHS)


Contact: Daniel Shaughnessy, 919/541-2506, shaughn1@niehs.nih.gov

Solicitation number: RFA-ES-14-005

This FOA solicits Small Business Innovative Research grant applications from small business concerns to develop point-of-care or benchtop instruments, or other laboratory-based approaches for the characterization of major classes of analytes that include known and suspected toxicants and their major metabolites in human biological samples, including blood, urine, and saliva, which are likely to be available from both prospective and retrospective epidemiological cohorts. The focus of technology development is on the ability to detect multiple chemical analytes with high sensitivity and specificity in low volumes of biological specimens. Budgets up to $225K total costs per year for Phase I and up to $750K total costs per year for Phase II may be requested. Durations up to one year for Phase I and up to two years for Phase II may be requested.
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.

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.

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.
Environmental Contributors to Autism Spectrum Disorders (R01)

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


Contact: Cindy Lawler, 919/316-4671, lawler@niehs.nih.gov

Solicitation number: PAR-14-203

The purpose of this FOA is to stimulate and foster research to (1) identify environmental contributors to risk and expression of autism spectrum disorders (ASD) and (2) understand how environmental factors impact the underlying biologic processes implicated in ASD. A range of approaches are being encouraged by this FOA, from basic mechanistic studies using in vitro and in vivo model systems to studies that add new data collection activities and/or make use of extant data or biospecimens in existing human studies. Studies that address hypotheses related to the joint contribution of genes and environment are of particular interest. It is anticipated that knowledge gained from the research supported by this FOA will be used to inform public health prevention and intervention strategies. Application budgets are limited to $400K direct costs for each year over a maximum duration of five years. This FOA runs in parallel with a FOA of identical scientific scope, PAR-14-202, that utilizes the R21 Exploratory/Developmental Grant mechanism.

NIMHD Basic and Applied Biomedical Research on Minority Health and Health Disparities (R01)

National Institutes of Health, National Institute on Minority Health and Health Disparities (NIMHD)


Contact: Nishadi Rajapakse, 301/496-4338, chandima.rajapakse@nih.gov

Solicitation number: RFA-MD-14-005

This FOA solicits innovative grant applications on: 1) Biological and genetic research to explore disease mechanisms or pathways that influence health outcomes in minority and health disparity populations; and 2) Clinical and translational research linking basic science discovery with effective treatment or clinical practice. The overall goal of this initiative is to enhance our understanding of fundamental biological mechanisms involved in disease conditions and develop therapies or interventions that can directly or demonstrably contribute to the elimination of health disparities. Total direct costs are limited to $250K per year for up to five years. This FOA runs in parallel with a FOA of identical scientific scope, RFA-MD-14-004, that utilizes the R01 Research Project Grant mechanism.

Leveraging a Recovery Act Resource to Accelerate Research on Neurodevelopment (R01)

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


Contact: Shelli Avenevoli, 301/443-8316, avenevos@mail.nih.gov

Solicitation number: RFA-MH-15-400

This FOA aims to stimulate the broader research community to utilize a resource funded through the American Recovery and Reinvestment Act of 2009 (Recovery Act) to generate and evaluate hypotheses about the complex interrelationships and multi-directional influences among genetics, brain maturation, neurocognitive function, and psychiatric symptoms during development. This FOA is a strategic effort to disseminate this data resource, stimulate the broader research community to use the resource, and accelerate research on neurodevelopment and trajectories of risk for mental illness. Secondary goals of this initiative are to foster collaborations among researchers from diverse fields of expertise, enhance diversity of research questions and analytic approaches, advance methods for integration across data modalities and levels of analyses (i.e., imaging, genomics, behavior), and encourage inclusion of early stage investigators among these collaborations. Application budgets are limited to $350K annual direct costs for a maximum project period of three years.

National Science Foundation (NSF)
Earth Sciences Instrumentation and Facilities (EAR IF)
National Science Foundation, Geosciences (GEO)
Contact: Varies with research interest
Solicitation number: NSF 11-544
The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division. EAR/IF will consider proposals for: Development of New Instrumentation, Analytical Techniques, or Software; Support of National or Regional Multi-User Facilities; or Support for Early Career Investigators. Proposals for Acquisition or Upgrade of Research Equipment will not be accepted in the Fiscal Year 2012 competition.

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

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

ADVANCE Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers
National Science Foundation, Cross-Directorate
Contact: Kelly Mack, 703/292-8575, kmack@nsf.gov
Solicitation number: NSF 12-584
The goal of the ADVANCE program is to develop systemic approaches to increase the representation and advancement of women in academic science, technology, engineering and mathematics (STEM) careers, thereby contributing to the development of a more diverse science and engineering workforce. For this deadline, the program will support Institutional Transformation (IT) awards. IT awards are expected to include innovative systemic organizational approaches to transform institutions of higher education in ways that will increase the participation and advancement of women in STEM academic careers. These awards support comprehensive programs for institution-wide change. NSF expects to make approximately seven Institutional Transformation five-year awards, at various award sizes. OR has not received any notices of intent. Contact funding@research.ucsb.edu if you are interested in submitting.
Ongoing

**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.

Ongoing

**SBE Doctoral Dissertation Research Improvement Grants (SBE DDRIG)**
National Science Foundation, Social, Behavioral, and Economic Sciences (SBE)


Contact: Varies with research interest

Solicitation number: NSF 11-547

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

Ongoing

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


Contact: Vasant Honavar, vhonavar@nsf.gov

Solicitation number: NSF 13-093

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

National Science Foundation


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

Solicitation number: NSF 13-574

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

5/23/2014 Site Proposal for Antarctica
8/20/2014 Site Proposal (except Antarctica)

Research Experiences for Undergraduates (REU) Sites and Supplements

National Science Foundation


Solicitation number: NSF 13-542

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research: (1) REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department or may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. (2) REU Supplements may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects. Three years is the typical duration for REU Site awards in most NSF directorates; however, a duration of up to five years may be allowed in some cases. The typical REU Site hosts 8-10 students per year. The typical funding amount is $70K-$120K per year.

5/27/2014 Full Proposal

Nanotechnology Undergraduate Education (NUE) in Engineering 2014 - Limited Submission

National Science Foundation


Contact: Mary Poats, 703/292-5357, mpoats@nsf.gov

Solicitation number: NSF 14-541

This solicitation aims at introducing nanoscale science, engineering, and technology through a variety of interdisciplinary approaches into undergraduate engineering education. The focus of the FY 2014 competition is on nanoscale engineering education with relevance to devices and systems and/or on the societal, ethical, economic and/or environmental issues relevant to nanotechnology. The maximum award is $200K over two years.
Hydrologic Sciences

National Science Foundation, Geosciences (GEO)


Contact: Thomas Torgersen, 703/292-4738, ttorgers@nsf.gov

Solicitation number: NSF 13-531

This program focuses on the fluxes of water in the environment that constitute the water cycle as well as the mass and energy transport function of the water cycle in the environment. The Program supports studying processes from rainfall to runoff to infiltration and streamflow; evaporation and transpiration; as well as the flow of water in soils and aquifers and the transport of suspended, dissolved and colloidal components. This program retains a strong focus on linking the fluxes of water and the components carried by water across the boundaries between various interacting components of the terrestrial system and the mechanisms by which these fluxes co-organize over a variety of timescales and/or alter the fundamentals of the interacting components. The Program is also interested in how water interacts with the solid phase, the landscape and the ecosystem as well as how such interactions and couplings are altered by land use and climate change. Studies may address aqueous geochemistry and solid phase interactions as well as physical, chemical, and biological processes as coupled to water transport.

Regular research awards supported by HS are generally but not exclusively in the range of $250K to $700K and of 2-4 years duration. Hydrologic process synthesis projects should be at a level appropriate to the scope of topic and are expected to be conducted at total levels of <$1M over 3-5 years with an emphasis on support of graduate students and postdocs.

Cyber-Physical Systems (CPS)

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


Contact: Varies with research interest

Solicitation number: NSF 14-542

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 $500K for up to three years, $1M for three to four years, and $7M for four to five years.
Cyber-Physical Systems (CPS)
National Science Foundation, Computer and Information Sciences and Engineering (CISE), Cross-Directorate, Engineering (ENG)


Contact: Varies with research interest
Solicitation number: NSF 14-542

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 seeks 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 testbeds. Three types of research and education projects -- differing in scope and goals--will be considered through this solicitation: 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) Frontier 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.

Petrology and Geochemistry (CH)
National Science Foundation


Contact: Sonia Esperanca, 703/292-4735, sesperan@nsf.gov
Solicitation number: NSF 14-501

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

Critical Techniques and Technologies for Advancing Big Data Science & Engineering
National Science Foundation, Cross-Directorate


Contact: Varies with research interest
Solicitation number: NSF 14-543

This solicitation is a part of a larger national "Big Data Initiative", which covers a wide range of topics: big data infrastructure; education and workforce development; and multi-disciplinary collaborative teams and communities that address complex scientific, biomedical and engineering grand challenges. This year, the solicitation invites two types of proposals: "Foundations" (F): those developing or studying fundamental techniques, theories, methodologies, and technologies of broad applicability to Big Data problems; and "Innovative Applications" (IA): those developing techniques, methodologies and technologies of key importance to a Big Data problem directly impacting at least one specific application. All proposals must address critical challenges for big data management, big data analytics, or scientific discovery processes impacted by big data. These techniques, methodologies and technologies can be computational, statistical, or mathematical in nature, and proposals may focus on novel theoretical analysis or experimental evaluation of these techniques and methodologies. Proposals in all areas of science and engineering covered by participating directorates at NSF are welcome. Projects will be funded in the range of $200K to a maximum of $500K per year in total funding for three to four years of support.
6/17/2014  Full Proposal

**Cultivating Cultures for Ethical STEM (CCE STEM) - Limited Submission**

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 14-546

This program accepts proposals for innovative research projects to foster ethical STEM research in all of the fields of science and engineering that NSF supports, including within interdisciplinary, inter-institutional and international contexts. CCE STEM research projects will use basic research to produce knowledge about what constitutes responsible or irresponsible, just or unjust scientific practices and sociotechnical systems, and how to best instill students with this knowledge.

Proposed research should seek to provide answers to the following: 'What constitutes ethical STEM research and practice? Which cultural and institutional contexts promote ethical STEM research and practice and why?' Factors one might consider include: honor codes, professional ethics codes and licensing requirements, an ethic of service and/or service learning, life-long learning requirements, curricula or membership in organizations (e.g. Engineers without Borders) that stress social responsibility or humanitarian goals, institutions that serve under-represented groups, institutions where academic and research integrity are cultivated at multiple levels, institutions that cultivate ethics across the curriculum, or programs that promote group work, or do not grade. Do certain labs have a 'culture of academic integrity'? What practices contribute to the establishment and maintenance of ethical cultures and how can these practices be transferred, extended to, or integrated into other research and learning settings?

6/27/2014  Letter of Intent (required)

9/26/2014  Planning Grant and Full Center Proposal

**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.

2/2/2015  Full Proposal (SSE)

6/27/2014  Full Proposal (SSI)

**Software Infrastructure for Sustained Innovation - SSE & SSI (SI2 - SSE&SSI)**

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 14-520

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.
Biological Anthropology Program Doctoral Dissertation Research Improvement Grants (BA-DDRIG)

This FOA supports multifaceted research which advances scientific knowledge of human biology and ecology, including understanding of our evolutionary history and mechanisms which have shaped human and nonhuman primate biological diversity. Supported research focuses on living and fossil forms of both human and nonhuman primates, addressing time scales ranging from the short-term to evolutionary, encompassing multiple levels of organization and analysis (molecular and organismal, to the population and ecosystem scales), and conducted in field, laboratory, and captive research environments. Areas of inquiry which promote understanding of the evolution, biology, and adaptability of our diverse species include, but are not limited to, human genetic and epigenetic variation and relationships to phenotype; human and nonhuman primate ecology, socioecology, functional anatomy and skeletal biology; human and nonhuman primate paleontology; and the anthropological science of forensics. Multidisciplinary research which fully integrates biological anthropology with other anthropological fields, such as bioarchaeological or biocultural research, also receives support through the Program. Proposal budgets cannot exceed $20K in direct costs.

Petascale Computing Resource Allocations (PRAC)

The purpose of this solicitation is to invite research groups that have a compelling science or engineering challenge that will require petascale computing resources to submit requests for allocations of resources on the Blue Waters system. Proposers must be prepared to demonstrate that they have a science or engineering research problem that requires and can effectively exploit the petascale computing capabilities offered by Blue Waters. Proposals from or including junior researchers are encouraged as one of the goals of this solicitation is to build a community capable of using petascale computing.

Geoinformatics (GI)

Proposals for the development of cyberinfrastructure for the geosciences (Geoinformatics) are solicited. NSF seeks the development and implementation of enabling information technology with impacts that extend beyond an individual investigator or small group of investigators and that facilitates the next generation of geosciences research. Proposals to this solicitation may seek support for community-driven development and implementation of databases; tools for data integration, interoperability, and visualization; software development and code hardening; and data-intensive/new computing methodologies that support the enhancement of geosciences research and education activities. Collaboration with computational scientists and the development of public/private partnerships are strongly encouraged. 5 to 10 awards will be made.
The Archaeology Program provides support for anthropologically relevant archaeological research at both a "senior" and doctoral dissertation level. It also funds anthropologically significant archaeometric research and high risk exploratory research proposals. For more information about multi-disciplinary research and training opportunities, please visit the SBE Office of Multidisciplinary Activities (SMA) website.

The Advancing Informal STEM Learning (AISL) program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and develop understandings of deeper learning by participants. The AISL program supports six types of projects: (1) Pathways, (2) Research in Service to Practice, (3) Innovations in Development, (4) Broad Implementation, (5) Conferences, Symposia, and Workshops, and (6) Science Learning+ Proposals. Funding varies for these categories (see full FOA for details).

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

NSF accepts unsolicited proposals on basic science in the domain of human language, encompassing investigations of the grammatical properties of individual human languages, and of natural language in general. Research areas include syntax, semantics, morphology, phonetics, and phonology. This program encourages projects that are interdisciplinary in methodological or theoretical perspective, and that address questions that cross disciplinary boundaries.
Social Psychology
National Science Foundation
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5712
Contact: Sally Dickerson, 703/292-7277, sdickers@nsf.gov

This program supports basic research on human social behavior, including cultural differences and development over the life span. Among the many research topics supported are: attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, and the psychophysiological and neurophysiological bases of social behavior. The scientific merit of a proposal depends on the following factors: 1) The problems investigated must be theoretically grounded; 2) The research should be based on empirical observation or be subject to empirical validation, 3) The research design must be appropriate to the questions asked; and 4) The proposed research must advance basic understanding of social behavior.

Linguistics Program - Doctoral Dissertation Research Improvement Awards (Ling-DDRI)
National Science Foundation, Cross-Directorate, Social, Behavioral, and Economic Sciences (SBE)
Contact: William Badecker, 703/292-5069, wbadecke@nsf.gov

The Linguistics Program supports basic science in the domain of human language, encompassing investigations of the grammatical properties of individual human languages, and of natural language in general. Research areas include syntax, linguistic semantics and pragmatics, morphology, phonetics, and phonology. The program encourages projects that are interdisciplinary in methodological or theoretical perspective, and that address questions that cross disciplinary boundaries, such as (but not limited to): 1) What are the psychological processes involved in the production, perception, and comprehension of language? 2) What are the computational properties of language and/or the language processor that make fluent production, incremental comprehension or rapid learning possible? 3) How do the acoustic and physiological properties of speech inform our theories of language and/or language processing? 4) What role does human neurobiology play in shaping the various components of our linguistic capacities? The total direct costs for awards may not exceed $12K.

Geobiology and Low-Temperature Geochemistry
National Science Foundation, Geosciences (GEO)
Contact: Enriqueta Barrera, 703/292-8551, ebarrera@nsf.gov

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

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 14-550

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

**Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR)**

National Science Foundation, Geosciences (GEO)


Contact: Robert Robinson, 703/292-8529, rmrobins@nsf.gov

Solicitation number: NSF 14-545

CEDAR is a broad-based, community-initiated, upper atmospheric research program. The goal is to understand the behavior of atmospheric regions from the middle atmosphere upward through the thermosphere and ionosphere into the exosphere in terms of coupling, energetics, chemistry, and dynamics on regional and global scales. Normally, CEDAR awards are made for a duration of three years, but proposers may request from one to five years of funding. The maximum award size will be about $150K per year.

**Sedimentary Geology and Paleobiology (SGP)**

National Science Foundation, Geosciences (GEO)


Contact: Lisa Park Boush, 703/292-4724, lboush@nsf.gov

Solicitation number: NSF 12-608

SGP supports research in a wide variety of areas in sedimentary geology and paleobiology in order to comprehend the full range of physical, biological, and chemical processes of Earth's dynamic system. The program supports the study of deep-time records of these processes archived in the Earth's sedimentary carapace (crust) at all spatial and temporal scales. These records are fingerprints of the processes that produced them and continue to shape the Earth. For the years 2013-2017, the Sedimentary Geology and Paleobiology Program will be sponsoring a two track opportunity that will consist of the normal SGP competition (Track 1) and bi-annually, a new track termed Earth-Life Transitions (ELT) (Track 2). Track 1: General Program supports general studies of: 1) the changing aspects of life, ecology, environments, and biogeography in past geologic time based on fossil plants, animals, and microbes; 2) all aspects of the Earth's sedimentary carapace - insights into geological processes recorded in its records and rich organic and inorganic resources locked in rock sequences; 3) the science of dating and measuring the sequence of events and rates of geological processes as manifested in Earth's past sedimentary and biological (fossil) record; 4) the geologic record of the production, transportation, and deposition of physical and chemical sediments; and 5) understanding Earth's deep-time (pre-Holocene) climate systems. Track 2: Earth-Life Transitions: The goals of the ELT track are: 1) to address critical questions about Earth-Life interactions in deep-time through the synergistic activities of multi-disciplinary science and 2) to enable team-based interdisciplinary projects involving stratigraphy, sedimentology, paleontology, proxy development, calibration and application studies, geochronology, and climate modeling at appropriately resolved scales of time and space, to understand major linked events of environmental, climate and biotic change at a mechanistic level. Anticipated funding is $6M annually for Track 1 and $4M biannually for Track 2.
Earth Sciences Postdoctoral Fellowships (EAR-PF)
National Science Foundation, Geosciences (GEO)
Contact: Lina Patino, 703/292-5047, lpatino@nsf.gov
Solicitation number: NSF 13-548
The Division of Earth Sciences (EAR) awards Postdoctoral Fellowships to recent recipients of doctoral degrees for research and training in topics relevant to Earth sciences. The fellows must develop and implement: 1) research projects that seek to address scientific questions within the purview of EAR programs; and 2) plans to broaden participation in Earth sciences. The program supports researchers for a period of up to 2 years with fellowships that can be taken to the institution of their choice (including facilities abroad). The program is intended to recognize beginning investigators of significant potential, and provide them with research experience, mentorship, and training that will establish them in leadership positions in the Earth Sciences community. The total fellowship amount is $87K per year.

Faculty Early Career Development (CAREER) Program
National Science Foundation
Contact: Varies with research interest
Solicitation number: NSF 14-532
The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. The minimum CAREER award will total $400K for the 5-year duration. Applicants must be, by October 1, 2011, employed in a tenure-track position at the assistant professor level or equivalent. CAREER awardees who are also U.S. citizens or permanent residents may then be considered for the Presidential Early Career Award for Scientists and Engineers (PECASE), the highest honor in the field from the U.S. government.

Catalyzing New International Collaborations
National Science Foundation
Contact: R. Clive Woods, 703/292-8710, OISE-CNIC@nsf.gov
Solicitation number: NSF 13-605
This program supports the participation of U.S. researchers and students in activities intended to catalyze new international collaborations. NSF may consider proposals for collaborations with any country that is not explicitly proscribed by the Department of State. Activities can be in any field of science and engineering research and education supported by the NSF. The integration of research and education and of diversity into NSF programs, projects, and activities will be carefully considered. It is anticipated that approximately 20-40 awards will be made annually at a total investment of $2M, subject to the availability of funds. Proposals will be accepted anytime at least nine months prior to the expected date of the proposed activity.
**Decision Frameworks for Multi-Hazard Resilient and Sustainable Buildings (RSB)**

National Science Foundation, Engineering (ENG)


Contact: Varies with research interest

Solicitation number: NSF 14-557

The goal of this FOA is to advance knowledge for new concepts for multi-hazard resilient and sustainable SFSE building systems using decision frameworks for selection among alternative building system designs. Research for multi-hazard resilient and sustainable SFSE building systems supported under the this solicitation must include the consideration of a rational decision framework, preferences, concepts for SFSE systems, and design optimization methods for generating and choosing among alternative SFSE systems. This solicitation does not support research that generically addresses materials research or decision frameworks outside the context of decision making for multi-hazard resilient and sustainable SFSE building systems. Awards for single institution proposals and collaborative proposals in total may range from $800K to $1.2M total, for up to four years.

---

**Instrument Development for Biological Research (IDBR)**

National Science Foundation, Biological Sciences (BIO)


Contact: Joyce Fernandes, 703/292-2209, jfernand@nsf.gov

Solicitation number: NSF 13-561

The IDBR Program supports the development of instrumentation that addresses demonstrated needs in biological research. The program accepts two types of proposals: 1) Innovation Proposals for the development of innovative instrumentation that permits new kinds of measurements, or instruments that significantly improve current technologies by at least an order of magnitude in fundamental aspects; and 2) Bridging Proposals for transforming 'one of a kind' prototypes or high-end instruments into devices that are broadly available and utilizable without loss of capacity. The period of support requested for Innovation proposals should not exceed 36 months and should not exceed 24 months for Bridging proposals.

---

**Opportunities for Promoting Understanding through Synthesis (OPUS)**

National Science Foundation, Biological Sciences (BIO)


Contact: William McDowell, 703/292-4255, wmcdowel@nsf.gov

Solicitation number: NSF 14-559

This FOA encourages the submission of proposals aimed at synthesizing a body of related research projects conducted by a single individual or a group of investigators over an extended period. OPUS proposals will often be appropriately submitted in mid-to-late career, but will also be appropriate early enough in a career to produce unique, integrated insight, useful both to the scientific community and to the development of the investigator’s future work. In cases where multiple scientists have worked collaboratively, an OPUS award will provide support for collaboration on a synthesis. It is estimated that six to eight awards will be made annually, and the anticipated award size is $125K to $200K.

---

**Science, Technology, and Society (STS)**

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


Contact: Frederick Kronz, 703/292-7283, fkronz@nsf.gov

Solicitation number: NSF 12-509

STS considers proposals for scientific research into the interface between science (including engineering) or technology, and society. STS researchers use diverse methods including social science, historical, and philosophical methods. Successful proposals will be transferrable (i.e., generate results that provide insights for other scientific contexts that are suitably similar). They will produce outcomes that address pertinent problems and issues at the interface of science, technology and society, such as those having to do with practices and assumptions, ethics, values, governance, and policy. Approximately 40 Standard, Continuing Grant, or Fellowship awards will be made.
Division of Integrative Organismal Systems

National Science Foundation


Contact: Varies with research interest

Solicitation number: NSF 13-600

The Division of Integrative Organismal Systems (IOS) supports research aimed at understanding why organisms are structured the way they are and function as they do. Proposals should focus on organisms as a fundamental unit of biological organization. Principal Investigators (PIs) are encouraged to apply systems approaches that will lead to conceptual and theoretical insights and predictions about emergent organismal properties. Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, and function, physiological processes, functional morphology, symbioses, interactions of organisms with biotic and abiotic environments, and animal behavior.

Proposals are welcomed in all areas of science supported by the Division of Integrative Organismal Systems which include: 1) the Behavioral Systems Cluster; 2) the Developmental Systems Cluster; 3) the Neural Systems Cluster; and 4) the Physiological and Structural Systems Cluster. All investigator-initiated proposals to the core programs in the Division of Integrative Organismal Systems must now be invited based on merit review of preliminary proposals. There is a single submission deadline with a limit of 2 preliminary proposals per investigator per year as PI or co-PI in response to this solicitation. There are no limits on the number of proposals submitted as collaborator or senior personnel. These limits do not pertain to proposals submitted in response to other NSF solicitations.

Science, Technology, and Society (STS)

National Science Foundation


Contact: Frederick Kronz, 703/292-7283, fkronz@nsf.gov

Solicitation number: NSF 12-509

The Science, Technology, and Society Program (STS) supports scientific research that examines relationships between science (including engineering), technology, and society. The program supports proposals on a broad range of topics related to science and society, and it especially welcomes proposals that focus on: 1) How ethical issues and values interconnect with science and technology, and how norms and values institutionalized in science and technology engage with society; and 2) How policy choices affect scientific and technological knowledge production and innovation, and on how scientific and technical knowledge and innovation affect policy decisions. Successful proposals are transferrable and articulate a detailed research plan. The average award size is anticipated to be $155K depending on availability of funds.

Wireless Innovation between Finland and US (WiFiUS)

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


Contact: Varies with research interest

Solicitation number: NSF 14-563

In 2011, the NSF, Tekes - the Finnish Funding Agency for Innovation, and the Academy of Finland jointly funded the Wireless Innovation between Finland and US (WiFiUS) SAVI (Science Across Virtual Institutes) to help build long-term research and education collaborations between the two world leaders of wireless networking. Given the success of the WiFiUS SAVI, NSF, Tekes, and the Academy of Finland have agreed to embark on a collaborative research program to enlarge the SAVI effort and address compelling research challenges on novel frameworks, architectures, protocols, methodologies and tools for the design and analysis of robust and highly dependable wireless networks, including cognitive radio networks. General topic areas include, but are not limited to, the following: spectrum sensing and spectrum sharing; network security and capacity; coexistence of legacy and future systems; network architectures; heterogeneous network design; resource allocation; quality of service; energy efficiency; interference management and alignment; device-to-device communication; cooperation/coordination methods among wireless clients; configurable antennas; and millimeter wave communications. Each award may be up to $300K over two years.
Division of Environmental Biology (CORE programs) (DEB)
National Science Foundation, Biological Sciences (BIO)
Contact: 703/292-8480, debquestions@nsf.gov
Solicitation number: NSF 14-503
This program supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles. About 200 awards will be made each year. The Division also welcomes proposals for Small Grants to the core programs via this solicitation. Projects intending total budgets of $150K or less should be identified as such with the designation "SG:" as a prefix to the project title. These awards are intended to support full-fledged research projects that simply require smaller budgets. Small Grant projects will be assessed based on the same merit review criteria as all other proposals.

Nuclear Regulatory Commission (NRC)
5/19/2014 Application
U.S. Nuclear Regulatory Commission Funding Opportunity Announcement, Research Grant and Cooperative Agree
Nuclear Regulatory Commission
Contact: Sarah Shaffer, 301/251-7942, Sarah.Shaffer@nrc.gov
Solicitation number: NRC-HQ-60-14-FOA-0001
The NRC regulates the nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, to promote the common defense and security, and to protect the environment. RES awards support a discrete, specified, circumscribed project to be performed by named PIs in areas representing the investigators’ specific interests and competencies, based on the mission of the NRC to conduct independent research and analyses, develop technical bases for supporting realistic safety decisions, and evaluate safety issues involving current and new designs and technologies related to nuclear power and materials. Awards are for a projected period of up to three years depending on program requirements and scheduled milestones. Award amounts in prior years have ranged from $25K to $225K per yea.

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.
Ongoing

Smith Richardson Foundation Grants
Smith Richardson Foundation
http://www.srf.org/grants/guideline.php
Contact: Varies with research interest

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

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.
National Geographic Society Waitt Grants

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

Committee for Research and Exploration Grant

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

FSSS Grants-in-Aid Program

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

Waitt Foundation Grants

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

Mathers Grants

The G. Harold & Leila Y. Mathers Charitable Foundation
http://www.mathersfoundation.org/policies.html

Contact: 914/242-0465, admin@mathersfoundation.org

Solicitation number:

The Foundation is primarily interested in supporting fundamental basic research in the life sciences. Support is provided for specific projects from established researchers at top universities and independent research institutions within the United States. Formal requests will be either discouraged or invited based on specific detailed queries sent by mail, and are processed when received. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Conservation Trust Grant
National Geographic Society
Contact: conservationtrust@ngs.org

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

Environment Program
The William and Flora Hewlett Foundation
http://www.hewlett.org/programs/environment-program/
Contact: 650/234-4500

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

Pollock-Krasner Grants
The Pollock-Krasner Foundation, Inc.
http://www.pkf.org/grant.html
Contact: http://www.pkf.org/contact.html

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

Funding for Readings and Workshops
Poets and Writers
http://www.pw.org/content/funding_readingsworkshops
Contact: 310/481-7195

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

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

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.
Changes in Health Care Financing and Organization (HCFO)
Robert Wood Johnson Foundation
http://pweb1.rwjf.org/applications/solicited/cfp.jsp?ID=21392
Contact: 202/292-6700, hcf@academyhealth.org

Solicitation number:
HCFO supports research, policy analysis and evaluation projects that provide policy leaders timely information on health care policy, financing and organization issues. Supported projects include: examining significant issues and interventions related to health care financing and organization and their effects on health care costs, quality and access; and exploring or testing major new ways to finance and organize health care that have the potential to improve access to more affordable and higher quality health services. Small grants are for projects requiring $100K or less and projected to take up to 12 months or less. Large grants for projects requiring more than $100K and/or projected to take longer than 12 months. Proposals may be submitted at any time, and grants are awarded on a rolling basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

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

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

CASIS Unsolicited Proposals
Center for the Advancement of Science in Space
http://www.iss-casis.org/Opportunities/UnsolicitedProposals.aspx
Contact: ideas@iss-casis.org

Solicitation number:
The International Space Station U.S. National Laboratory supports investigations across a broad spectrum of basic and applied research. As manager of this research platform, CASIS regularly provides solicitation opportunities in the life, physical, materials and observational sciences. However, CASIS also welcomes unsolicited proposals for research and product development that might be suitable for the National Lab. The CASIS mission is to fully utilize the National Lab, enabling cutting-edge research on station from every corner of the country. CASIS evaluates unsolicited proposals on a regular basis for scientific and economic merit and potential impact. If you have not yet secured funding for your proposed project, please note that proposals receiving high evaluation scores from this review may qualify for funding assistance from our implementation partners, and CASIS may facilitate matching of funds. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
**Thriving Cultures Program**  
Surdna Foundation  
http://www.surdna.org/what-we-fund/thriving-cultures.html  
Contact: 212/557-0010, grants@surdna.org  
Solicitation number:

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

---

**Environmental Management Participation Program for the U.S. Army Environmental Command (USAEC)**  
Oak Ridge Institute for Science and Education (ORISE)  
http://see.orau.org/ProgramDescription.aspx?Program=10056  
Contact: Kim Myers, 410306-9205, kim.myers@orau.org  
Solicitation number:

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

---

**AFRL Research Collaboration Program**  
Elsevier Foundation  
http://www.grants.gov/custom/viewOppDetails.jsp?oppId=212295  
Contact: Angela Campbell, 937/656-7736, Angela.Campbell@wpafb.af.mil  
Solicitation number: BAA-RQKM-2013-0005

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

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

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

Anthropological Historical Archives Program

The objective of this Program is to encourage the preservation of unpublished personal research materials of established anthropologists considered of value for research on the history of anthropology. HAP grants of a maximum of $15K are offered to individuals, to assist senior scholars at the end of their careers (or their heirs) with the expense of preparing and transferring their unpublished research materials for archival deposit. Applicants must show evidence that arrangements have been made with an appropriate archival repository. Funds are strictly limited to covering expenses related to the basic preparation of materials for archival deposit. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

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

Humanities Research Projects

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

The Wenner-Gren Foundation

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

Contact: internationalprograms@wennergren.org

Solicitation number:

The International Collaborative Research Grant (ICRG) supports international research collaborations in anthropology between two or more qualified scholars, where the principal investigators bring different and complementary perspectives, knowledge, and/or skills to the project. The grants are for a maximum of $30K for the research project. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Project Awards

Russell Sage Foundation

http://www.russellsage.org/how-to-apply/apply-project-awards

Contact: 212/750-6000

Solicitation number:

The Foundation’s awards are restricted to support for basic social science research within its announced programs of: Future of Work; Immigration; Cultural Contact; Social Inequality; and Behavioral Economics. Major awards typically range between $35K and $200K. The Foundation mainly provides support for analyzing data and writing up results, but occasionally considers larger awards for data acquisition projects highly relevant to its program goals. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Special Grant Program in the Chemical Sciences 2014

The Camille and Henry Dreyfus Foundation

http://dreyfus.org/awards/special_grant_program_chemical.shtml

Contact: 212/753-1760, programs@dreyfus.org

Solicitation number:

This program provides funding for innovative projects in any area consistent with the Foundation's broad objective to advance the chemical sciences. The Foundation encourages proposals that are judged likely to significantly advance the chemical sciences. Examples of areas of interest include (but are not limited to): the increase in public awareness, understanding, and appreciation of the chemical sciences; innovative approaches to chemistry education at all levels (K-12, undergraduate, and graduate); and efforts to make chemistry careers more attractive. Research proposals are not customarily considered. Important aspects of proposals are: a) broad applicability and impact beyond the submitting institution; b) specific and detailed descriptions of the chemistry associated with the proposal; c) uniqueness of project. The amount of support requested is determined by the applicant.
Advancing Understanding of Education Practice and Its Improvement

Spencer Foundation

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

Contact:

Solicitation number:

With this program, the Spencer Foundation aims to reinforce our commitment to intellectually ambitious research, oriented ultimately to improving the practice of education, and independent of any particular reform agendas or methodological strictures. The foundation suggests that a significant share of the successful proposals that will be funded under this initiative will fall into one of three broad categories. These three categories might be labeled studies of instructional practice, of the educational infrastructure that supports or hinders effective practice, and of the research infrastructure that supports inquiry into educational practice. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Public Welfare Grants

Public Welfare Foundation

http://www.publicwelfare.org/ApplyGrant/Guidelines.aspx

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

Solicitation number:

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

New Scholars Program

Elsevier Foundation

http://www.elsevierfoundation.org/new-scholars/how-to-apply/

Contact:  Ylann Schemm, 212/633-3933, foundation@elsevier.com

Solicitation number:

The New Scholars Program supports projects to help early- to mid-career women scientists balance family responsibilities with demanding academic careers. New Scholars seeks to actively address the attrition rate of talented women scientists caused by work-life balance issues. The Foundation provides one, two and three year grants to STEM institutions and organizations actively working towards a more equitable academia by: 1) Encouraging networking and collaborations among institutions and/or across STEM disciplines in ways that support the challenges of faculty and staff with family responsibilities; 2) Developing and implement strategies for advocacy and policy development to advance knowledge, awareness, and application of programs to retain, recruit and develop women in science; and 3) Enabling scientists to attend conferences, meetings, workshops and symposia that are critical to the development of a career in science by helping them with childcare and other family responsibilities when attending scientific gatherings. Proposals are welcome for single-year grants in amounts between $5K to $50K. Proposals will be accepted for multi-year programs (up to three years) for grant amounts of $5K to $50K per year for a project total of $100K. 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.
Scientific Innovations Award in Neuroscience 2015 - Limited Submission
Brain Research Foundation
http://thebrf.org/Grants/Scientific+Innovations+Award
Contact: 312/759-5150, info@theBRF.org
Solicitation number:
The objective of the SIA is to support projects that may be too innovative and speculative for traditional funding sources but still have a high likelihood of producing important findings. It is expected that investigations supported by these grants will yield high impact findings and result in major grant applications and significant publications in high impact journals. The nominated candidate must be a full-time professor or associate professor at an invited US institution, working in the area of studies of brain function in health and disease. Current major NIH or other peer-reviewed funding is preferred but evidence of such funding in the past three years is essential. Studies should be related to either normal human brain development or specifically identified disease states. This includes molecular and clinical neuroscience as well as studies of neural, sensory, motor, cognitive, behavioral and emotional functioning in health and disease. The grant proposal must detail a new research project that is not funded by other sources. Awards are limited to $150K for two years (January 2015 - December 2016).

Measuring the Quality of Civic and Political Engagement
Spencer Foundation
http://www.spencer.org/resources/content/4/1/1/documents/RFP-New-Civics.pdf
Contact: civics@spencer.org
Solicitation number:
The New Civics Initiatives has funded research that asks important questions about how education can support youth civic and political development. This request for proposals extends the New Civics Initiative to measurement. It provides funds for scholarly efforts to create reliable and valid measures of the quality of civic and political engagement among youth ages 15-25. Specifically, the Foundation is interested in the development of measures of the quality of two dimensions of civic and political engagement: 1) Engagement with Evidence and Arguments and 2) Engagement Across Difference. In the spring of 2015, the Spencer Foundation anticipates funding up to six to eight awards ranging from $100K to $400K to cover direct and limited indirect costs for projects that last up to two years.

Craft Research Fund Project Grants
The Center for Craft Creativity and Design
Contact: Marilyn Zapf, 828/890-2050, mzapf@craftcreativitydesign.org
Solicitation number:
Grants up to $15K will be awarded to support research projects relating to the goals of the Craft Research Fund: 1) To support innovative research on critical issues in craft theory and history; 2) To explore the inter-relationship among craft, art, design and contemporary culture; 3) To foster new cross-disciplinary approaches to scholarship in the craft field in the United States; and 4) To advance investigation of neglected questions on craft history and criticism in the United States. Grant funds may be used for research related expenses such as travel, honoraria for contributors, salary for independent researchers, and/or support documentation such as images or rights to use images or text, as part of the research yet to be completed. The grant awards are not for the printing or dissemination of already completed research. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
2014 William T. Grant Scholars - Limited Submission

William T. Grant Foundation

http://www.wtgrantfoundation.org/funding_opportunities/fellowships/william_t__grant_scholars

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

Solicitation number:

The William T. Grant Scholars Program supports promising early-career researchers from the social, behavioral, and health sciences, who have demonstrated success in conducting high-quality research and are seeking to further develop and broaden their expertise. Applications will be accepted on the following topics: 1) reducing inequality; 2) understanding the use of research evidence; 3) understanding social settings. Potential Scholars should have a promising track record of conducting high-quality research, but want to pursue a significant shift in their trajectories as researchers. Candidates are nominated by a supporting institution and must submit five-year research plans that demonstrate creativity, intellectual rigor, and a commitment to continued professional development. Every year, four to six Scholars are selected and each receives $350K distributed over a five-year period.

8/1/2014 Letter of Inquiry (Fall)

EFG Grants

Elizabeth Firestone Graham Foundation

http://efgfoundation.com/letters-of-inquiry.html

Contact: 505/898-5600 ext. 24, info@EFGFoundation.com

Solicitation number:

Funding is currently available to support direct costs for catalogues and other publications accompanying contemporary art exhibitions and projects, especially those supporting emerging and under-recognized artists and produced by smaller organizations outside the nation’s cultural centers. Requests for projects that take place within one year of the request will be given priority consideration. Grant amounts typically range from $5K to $20K. Proposals for funding are reviewed semi-annually, in the Spring and Fall. Letters of inquiry are required before submission of a full proposal. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

8/1/2014 Application

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.

UC and State of California
Energy Innovations Small Grant Program for Natural Gas

California Energy Commission


Contact: Program Administrator, 619/594-1049, eisg@projects.sdsu.edu

Solicitation number: 14-02G

The California Energy Commission (Energy Commission) is offering Energy Innovations Small Grant (EISG) funding through its program administrator, the San Diego State University Foundation. The EISG Program funds projects that determine the feasibility of energy research and development concepts relating to the Public Interest Energy Research (PIER) Program. A maximum of $150K for hardware projects requiring physical testing or $75K for modeling projects is available to awardees per grant project. Proposals must meet all of the following criteria to be eligible for consideration under the EISG program. The proposed work must: 1) Advance science or technology not adequately addressed by competitive and regulated markets; 2) Involve an original innovative solution to a significant energy problem; 3) Be in the proof-of-concept phase; 4) Address a California market need; 5) Provide a clear potential benefit to California natural gas ratepayers; and 6) Target one of the PIER R&D areas: Natural gas energy efficiency, Natural gas environmental impacts, Renewable energy technologies, Strategic analysis, Advanced generation concepts, or Transportation Energy.

UC MEXUS Small Grants

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

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

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

Solicitation number:

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

UC Multicampus Research Programs and Initiatives (MRPI) 2015

University of California

http://www.ucop.edu/research-grants-program/_files/mrpi/2015_MRPI_RFP_Final_v0501.pdf

Contact: Emily McDonald, 510/987-9146, Emily.McDonald@ucop.edu

Solicitation number:

MRPIs are multicampus or systemwide research collaborations that go beyond individual PI-driven projects to benefit the UC research enterprise, strengthen UC’s position as a leading public research university, launch pioneering research in thematic, multidisciplinary or inter-disciplinary areas, and benefit California and its people. The competition is open to all fields of research and scholarship. Projects require collaboration of at least three UC campuses, or at least two campuses and one or more UC-managed national lab. MRPI award types include 1) two-year planning, capacity-building, and infrastructure, and 2) multi-year program awards for 2, 3, or a maximum of 4 years. Applicants may apply for only one award type.

Santa Barbara Cottage Hospital Research Grants

Santa Barbara Cottage Hospital

http://www.cottagehealthsystem.org/LinkClick.aspx?link=1026&tabid=185

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

Solicitation number:

This program has been established to encourage medical research by health professionals affiliated with Cottage Health System. The program can provide funding of up to $15K for innovative new ideas and small research projects. Scientists not affiliated with Cottage are eligible if there is a co-investigator who is a health professional affiliated with Cottage Health System.