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 x3925

Barbara Walker, Director, Social Sciences
walker@research.ucsb.edu or x3576

Brandon Fastman, Associate Director
Humanities, Fine Arts, and Education
fastman@research.ucsb.edu or x4539

Andrea Stith, Associate Director
Science & Engineering
stith@research.ucsb.edu or x7345

Danielle Chandler, Associate Director
Science & Engineering
chandler@research.ucsb.edu or x4494

Kelly Pillsbury
Research Development Analyst
pillsbury@research.ucsb.edu or x8891

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Campus and Agency News

2017 LINDROS AWARD FOR TRANSLATING RESEARCH TO MEDICAL PRACTICE

The Lindros Award for Translating Research to Medical Practice provides a one-year grant of $10,000 in support of a significant project with clear potential impact on human medicine. Competitive proposals, which will be submitted by the graduate student and/or post-doctoral researcher, must include substantiation of the research itself, impact on human medicine, and justification for use of the award. Graduate students and post-doctoral scholars are eligible. More information here.

DEADLINE: Friday, June 16, 2017, at 5 p.m.

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: Non-Academic Research Internships for Graduate Students (INTERN) Supplemental Funding

A supplemental funding opportunity is available in fiscal year (FY) 2018 and FY 2019 to provide support for non-academic research internships for graduate students to support career opportunities in any sector of the U.S. economy. NSF currently invests in a number of graduate student preparedness activities and has historically encouraged principal investigators (PIs) to include such activities in research proposals to NSF. This Dear Colleague Letter (DCL) describes new commitments and funding opportunities at NSF to ensure graduate students are prepared for the 21st-century STEM workforce.

Dear Colleague Letter: Supporting Fundamental Research to Enable Innovation in Advanced Manufacturing at Manufacturing USA Institutes

The National Science Foundation (NSF) is interested in receiving research proposals addressing critical fundamental research needs in advanced manufacturing, and particularly in projects that may enable innovations in the technical focus areas of one or more of the Manufacturing USA Institutes. Such proposals should leverage the facilities, infrastructure, expertise and member companies of one or more Institutes.

Dear Colleague Letter: Removal of Deadlines for the Biological and Environmental Interactions of Nanoscale Materials Program in the Division of Chemical, Biological, Environmental, and Transport Systems in the Directorate for Engineering

The Biological and Environmental Interactions of Nanoscale Materials Program in the Division of Chemical, Biological, Environmental, and Transport Systems (CBET) has, as of April 2017, eliminated target dates and will accept proposals for consideration at any time. To allow time to adapt to the “open submission – no deadline” guidelines, new proposals will be considered for review after July 20, 2017. By accepting proposals at any time,
tors will have greater opportunities to prepare proposals, build strong collaborations, and think more creatively resulting in more complex, interdisciplinary projects that have the potential to dramatically advance science.

**Dear Colleague Letter: Removal of deadlines for the Marine Geology and Geophysics Program in the Division of Ocean Sciences in the Directorate for Geosciences**


The Marine Geology and Geophysics Program (MGG) in the Division of Ocean Sciences will, as of May 1, 2017, eliminate target dates and accept proposals for consideration at any time, as is presently done in several other programs in NSF’s Directorate for Geosciences. This action is being taken to enable greater flexibility for the community and reduce the burden on investigators, reviewers, and submitting institutions. New proposals will be accepted any time after July 1, 2017. Proposals requesting ship time should allow for at least 18 months of lead time for those projects requiring Academic Research Fleet Global- or Ocean-Class vessels and at least 12 months for all other ship requests. By accepting proposals at any time, investigators will have more time to prepare proposals and build strong collaborations; think more creatively without the pressure of a deadline; and propose more complex, interdisciplinary projects that have the potential to dramatically advance science.

**Dear Colleague Letter: Improving Undergraduate STEM Education in Hispanic Serving Institutions (HSIs)**


With this Dear Colleague Letter (DCL), the National Science Foundation (NSF) is calling for submission of conference proposals to inform the design of NSF’s new Hispanic-Serving Institution (HSI) program, to be established in fiscal year 2018. Proposed conferences are expected to result in the identification of the most critical challenges and opportunities regarding undergraduate STEM education at two-year and four-year Hispanic-Serving institutions of higher education, and potential actionable solutions that fall within NSF’s mission, policies, and practices.

**Dear Colleague Letter: Changes to the Doctoral Dissertation Improvement Grant (DDIG) Program in the Directorate for Biological Sciences**


With this Dear Colleague Letter, the Directorate for Biological Sciences (BIO) is notifying members of the research communities served by the Division of Integrative Organismal Systems (IOS) and the Division of Environmental Biology (DEB) to changes to the Doctoral Dissertation Improvement Grant (DDIG) Program. Following a process of internal review and discussion regarding available resources, both the DEB and IOS Divisions will no longer accept DDIG proposals. This difficult decision was necessitated because of increasing workload and changes in Division priorities. This change is consistent with decisions made by other programs in BIO, which have not participated in the DDIG competition for more than a decade. This decision does not affect DDIGs that are already awarded.

**Dear Colleague Letter: CAREER Proposals Submitted to the Directorate for Education and Human Resources (EHR) - Suggestions for Enhancing the Quality of Proposals**


The purpose of this letter is twofold: (a) to highlight, clarify, and draw attention to important information included in Program Solicitation NSF 17-537 as it relates to CAREER proposals submitted to divisions and programs within EHR; and (b) to provide suggestions for enhancing the quality of these proposals. Important Items of the New Program Solicitation Program Solicitation NSF 17-537 highlights significant items related to the investigators’ eligibility criteria, including: (a) be engaged in research and education in a field...
supported by the NSF; and (b) be employed in a tenure-track (or tenure-track-equivalent) position as an assistant professor (or equivalent title) as of October 1 after the proposal submission.

Dear Colleague Letter: Updated Focus of Programs within the Engineering Biology and Health Cluster, Division of Chemical, Bioengineering, Environmental, and Transport (CBET) Systems

The Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET) has realigned and refocused several of the programs within its Engineering Biology and Health cluster. This effort was undertaken to clarify the scope of each of the programs and to minimize programmatic overlap. All prospective investigators are encouraged to contact the Program Directors of the program to which they are considering submitting their proposal to discuss their research objectives. There are certain areas that each program considers, which are listed within the program description on the NSF website. To avoid having your proposal returned without review, please discuss proposals that fall outside the listed areas with the program director prior to submitting.

LIMITED SUBMISSION DEADLINES

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

Programs with upcoming campus deadlines include:

• NSF Towards a Leadership-Class Computing Facility - Phase 1—Campus Notice of Intent 6/15/2017; NSF Letter of Intent 7/14/2017; Full Proposal 11/20/2017

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

• NSF Competition for the Management and Operation of the National Center for Atmospheric Research—Full Proposal 8/7/2017
• NIH Bridges to the Doctorate (R25) 2017—Full Proposal 9/25/2017
**Contract and Grant Awards**

**May 2017**

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

Banerjee, K. (Electrical & Computer Engineering), $540,000, UC Los Angeles, “A Novel Heterogeneously Integrated Memory Subsystem for the IoT era.”

Bisson, K.M. and Siegel, D.A. (Geography), Earth Research Institute, $50,000, National Academies Keck Futures Initiative, “Project ROAM: Rendering Oceanography in Artistic Mediums.”


Bultan, T. (Computer Science), $9,000, National Science Foundation-NSF, “NSF Travel and Attendance Grant Proposal for ISSTA/SPIN 2017.”

Campanale, J.P. (Neuroscience Research Institute), Montell, D.J. (Molecular, Cellular & Developmental Biology), $163,500, American Cancer Soc, Inc., “Coordination of collective motility by cell polarity signaling.”

Dewar, T.J. (Education), Gevirtz Graduate School of Education, $15,000, Natl Writing Project Corporation-Nwp, “2017-2018 SEED Invitational Leadership Institute.”


Han, S. and Scott, S.L. (Chemical Engineering), Chemistry & Biochemistry, $250,000, National Science Foundation-NSF, “IRES: Training next generation researchers in advanced magnetic resonance at chemistry interfaces.”


Homyak, P.M. and Schimel, J.P. (Ecology, Evolution & Marine Biology), Earth Research Institute, $45,000, Ford Foundation, “Evaluating paradigms in phosphorus (P) biogeochemical cycling: The paradox of high P availability in ecosystems developing on P-poor parent material.”

Jerde, C.L. (Marine Science Institute), $13,236, Great Lakes Fishery Commission, “Uses and limitations of Environmental DNA (eDNA) in Fisheries Management.”


Krintz, C. and Wolski, R.M. (Computer Science), $1,175,545, National Science Foundation-NSF, “CSR: Medium: Next-Generation Cloud Federation via a Geo-Distributed Datastore.”

McDonald, K.L. (History), Interdisciplinary Humanities Center, $3,200, Japan Foundation (The), “Bodies and Structures: Deep-mapping the Spaces of Japanese History.”

Michaelsen, J.C. (Geography), Stratton, E. (Earth Research Institute(ccber)), $2,449,000, Cal Department Of Transportation, “UC Santa Barbara, North Campus Open Space Multi-Modal Trail Project”

Nidzieko, N. (Geography), Earth Research Institute, $81,865, AMPAC Inc., “Test of bi-static underwater optical imager from an autonomous underwater vehicle.”

O’Malley, M.A. (Chemical Engineering), $75,000, Camille & Henry Dreyfus Foundation, “Deconstructing Microbial Consortia for Sustainable Chemistry.”


Squires, T. (Chemical Engineering), $421,913, University Of Minnesota, “Lipid and Protein Effects on Monolayer Stability.”

Tessaro, S.M. (Computer Science), $60,000, Alfred P. Sloan Foundation, “Sloan Foundation Research Fellowship.”

Tuholske, C.P. and Caylor, K.K. (Geography), $23,835, Purdue University, “Assessing Urban Food Security and Diet within Accra, Ghana and Lusaka, Zambia.”


Young, A. (Physics), $60,000, Alfred P. Sloan Foundation, “Sloan Research Fellowship.”
Helpful Hints

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

• In order to provide a full and complete review, Sponsored Projects in the Office of Research must receive proposals at least four full working days prior to funding agency deadlines.

Department of Agriculture (USDA)

6/28/2017  Application

Childhood Obesity Prevention Challenge Area

National Institute of Food and Agriculture

Contact: Deirdra Chester, 202/401-5178, dnchester@nifa.usda.gov
Solicitation number: USDA-NIFA-AFRI-006346

This AFRI Challenge Area focuses on the societal challenge to end obesity among children, the number one nutrition-related problem in U.S. Food is an integral part of the process that leads to obesity, and USDA has a unique responsibility for the food system in the United States. The long-term goal of this Challenge Area is to reduce the prevalence of obesity among children and adolescents ages 2–19 years or any subset of this age range. Applications to this Challenge Area will support multi-function Integrated Research, Education, and Extension Projects and Food and Agricultural Science Enhancement (FASE) Grants. See Childhood Obesity Prevention Challenge Area RFA for details. Standard Grants, Strengthening Standard Grants, and New Investigator Grants must not exceed $500K per year, including indirect costs, for project periods of up to 5 years.

7/13/2017  Application

Agriculture and Food Research Initiative - Resilient Agroecosystems in a Changing Climate

National Institute of Food and Agriculture

Contact: Nancy Cavallaro, 202/401-5176, ncavallaro@nifa.usda.gov
Solicitation number: USDA-NIFA-AFRI-006353

The AFRI grants program supports research, education, and extension efforts by awarding grants to address key problems of local, regional, national, and global importance in sustaining conventional and organic food and agriculture systems. These, include farm efficiency and profitability, ranching, bioenergy, forestry (both urban and agroforestry), aquaculture, rural communities and entrepreneurship, human nutrition, mitigating impacts of biotic and abiotic constraints on food production, food safety, mitigating food waste and food loss, physical and social sciences, home economics and human ecology, biotechnology, and classical/conventional breeding. Through this support, AFRI advances knowledge in the fundamental and applied sciences important to agriculture. The education and extension activities supported through AFRI deliver science-based knowledge to people, allowing them to make informed practical decisions. This AFRI RFA is announcing funding opportunities for integrated research, education, and/or extension projects addressing the challenges of Resilient Agroecosystems in a Changing Climate.
Agriculture and Food Research Initiative - Water for Food Production Systems Challenge Area

National Institute of Food and Agriculture


Contact: 202/401-6488, AFRI@nifa.usda.gov
Solicitation number: USDA-NIFA-AFRI-006304

This AFRI Challenge Area focuses on multidisciplinary systems approaches, which integrate new technologies and strategic management that solve water availability and quality challenges in food production systems. The long-term goal of this program is to sustainably increase agricultural productivity and availability of safe and nutritious food while significantly reducing water use and preserving water quality. The projects are expected to transform how abundant, safe, and nutritious food is produced, processed, distributed, and consumed within the limits of available water from traditional and non-traditional sources. Applications are invited from eligible entities to submit integrated Research, Education and/or Extension projects in two specific grant types: Coordinated Agricultural Projects (CAP) and Strengthening (Food and Agricultural Science Enhancement) CAP grants — see Water for Food Production Systems RFA for details. Funding of projects beyond FY 2017 is contingent upon the availability of funds, and the best interests of the US government.

Department of Defense (DOD)

Ongoing

Research Interests of the Air Force of Scientific Research

Air Force Research Laboratory

Contact: Varies with research interest
Solicitation number: BAA-AFRL-AFOSR-2015-0001

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

Ongoing

AFRL Research Collaboration Program

Department of Defense (DoD)

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

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

Department of Defense (DoD)


Contact:

Solicitation number:  BAA-RVKV-2015-0003

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

6/30/2017    Application

Army Research Institute for the Behavioral and Social Sciences Broad Agency Announcement for Basic Scientific Research

Department of Defense (DoD)


Contact:  Maria Nelson, 919/541-4992, maria.d.nelson.civ@mail.mil

Solicitation number:  W911NF-17-S-0007

To meet the operational objectives of the U.S. Army over the next two decades, the Army must improve its capability to select, classify, train, and develop Soldiers, leaders, and units that can: Adapt quickly to dynamic missions, operational environments, and a wide spectrum of cultures and languages; Function effectively in complex digital, information rich, and semi-autonomous environments; Collaborate effectively in quickly formed units and in high stress environments; Interact and collaborate effectively in joint-service and multi-national operations. ARI requests proposals to conduct basic research that will provide a scientific foundation to support these broad capabilities. Award decisions are subject to funds availability, and ARI may choose to not execute any award under this BAA due to unavailability of funds or other factors.

7/13/2017    Application

10/5/2017    Application (by invitation)

Bone Marrow Failure Research Program: Idea Development Award

Congressionally Directed Medical Research Programs

http://cdmrp.army.mil/funding/pa/FY17-BMFRP-IDA.pdf

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

Solicitation number:  W81XWH-17-BMFRP-IDA

To fund scientifically meritorious research focused on BMF diseases. Investigator-initiated research is encouraged in the areas of congenital or acquired BMF. Studies focused on BMF diseases and their progression to other malignancies, such as leukemia, are acceptable. However, research primarily focused on myeloproliferative neoplasms, leukemia, or other malignancies is discouraged. Stem cell biology studies and translational projects including bone marrow transplantation studies should be clearly related to BMF diseases.

7/17/2017    White Paper

11/1/2017    Proposal

Fiscal Year (FY) 2018 Department of Defense Multidisciplinary Research Program of the University Research Initiati

Department of Defense (DoD)


Contact:  Ellen Livingston, ellen.s.livingston@navy.mil

Solicitation number:  N00014-17-S-F006

The MURI program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD. As defined in the DoD Financial Management Regulation: Basic research is systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs. It is farsighted high payoff research that provides the basis for technological progress.
National Geospatial-Intelligence Agency Academic Research Program

Department of Defense (DoD)

http://www.grants.gov/web/grants/view-opportunity.html?oppId=254129

Contact: OCSGrants@nga.mil

Solicitation number: HMO210-14-BAA-0001

The NGA mission is to provide timely, relevant, and accurate geospatial intelligence (GEOINT) in support of national security objectives. The NGA Academic Research Program (NARP) is focused on innovative, far-reaching basic and applied research in science, technology, engineering and mathematics having the potential to advance the GEOINT mission. The objective of the NARP is to support innovative, high-payoff research that provides the basis for revolutionary progress in areas of science and technology affecting the needs and mission of NGA. Award amounts and durations vary with the PI’s research interest. The maximum award amount is 200K over a two year project period.

Amyotrophic Lateral Sclerosis Research Program: Therapeutic Development Award

Congressionally Directed Medical Research Programs

http://cdmrp.army.mil/funding/pa/FY17_ALSRP_TDA_PA_GG.pdf

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

Solicitation number: W81XWH-17-ALSRP-TDA

The goal of the ALSRP is to fund innovative preclinical research to promote the development of new treatments that may contribute to a cure for ALS. Supports post-discovery, preclinical development of therapeutics for ALS Preliminary data, including identify and purity of an identified bioactive compound(s), are required. Types of efforts that will be supported include: Validation of lead pharmacological agents up to IND submission. Optimization of potency and pharmacology, studies of formulation, stability and production methods based on Good Manufacturing Practices. Collaboration with industry is encouraged. Clinical trials are not allowed. Does not support screening or development of screens or model. Maximum period of performance is 2 years. Maximum funding of $1M for direct costs.

Clinical Development Award

Congressionally Directed Medical Research Programs


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

Solicitation number: W81XWH-17-OCRP-CDA

The mission of the OCRP is to support patient-centered research to prevent, detect, treat, and cure ovarian cancer. Although not required, investigators are encouraged to address one of the FY17 Areas of Encouragement in their applications: Novel therapies and associated predictive biomarkers; Non-invasive surveillance and assessment of disease; Treatment resistance; Immunotherapy; Etiology, epidemiology, and prevention; Early detection; Rare subtypes; Host-tumor interactions; and Survivorship and quality of life. Maximum funding of $600K for direct costs (plus indirect costs). Maximum period of performance is 3 years.

Ovarian Cancer Research Program: Investigator-Initiated Research Award

Congressionally Directed Medical Research Programs

http://cdmrp.army.mil/funding/pa/FY17-OCRP-IIRA.pdf

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

Solicitation number: W81XWH-17-OCRP-IIRA

The mission of the OCRP is to support patient-centered research to prevent, detect, treat, and cure ovarian cancer. Although not required, investigators are encouraged to address one of the FY17 Areas of Encouragement in their applications: Novel therapies and associated predictive biomarkers; Non-invasive surveillance and assessment of disease; Treatment resistance; Immunotherapy; Etiology, epidemiology, and prevention; Early detection; Rare subtypes; Host-tumor interactions; and Survivorship and quality of life. Maximum funding of $450K for direct costs (plus indirect costs). Maximum period of performance is 3 years.
Institute of Education Sciences (IES): Education Research Grants

Department of Education

https://ies.ed.gov/funding/ncer_progs.asp

Contact: Erin Higgins, Erin.Higgins@ed.gov

Solicitation number: ED-GRANTS-053017-001

This program provides national leadership in expanding fundamental knowledge and understanding of Education Research in these specific areas: Cognition and Student Learning; Early Learning Programs and Policies; Education Leadership; Education Technology; Effective Teachers and Effective Teaching; English Learners; Improving Education Systems; Postsecondary and Adult Education; Reading and Writing; Science, Technology, Engineering, and Mathematics Education; Social and Behavioral Context for Academic Learning. Estimated funding range of awards is $100K to $760K with up to 5 years of project period.

Low-Cost, Short-Duration Evaluation of Education Interventions

Department of Education

https://www.grants.gov/web/grants/view-opportunity.html?oppId=294199

Contact: Phill Gagne, Phill.Gagne@ed.gov

Solicitation number: ED-GRANTS-053017-005

The Institute’s purpose in awarding these grants is to provide national leadership in expanding fundamental knowledge and understanding of (1) developmental and school readiness outcomes for infants and toddlers with or at risk for a disability, and (2) education outcomes for all students from early childhood education through postsecondary and adult education. The Institute’s research grant programs are designed to provide interested individuals and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. These interested individuals include parents, educators, students, researchers, and policymakers. In carrying out its grant programs, the Institute provides support for programs of research in areas of demonstrated national need. Estimated funding range for awards is $50K to $125K for a period of 2 years.

Education Research and Special Education Research Grant Programs

Department of Education

https://www.grants.gov/web/grants/view-opportunity.html?oppId=294200

Contact: Sarah Brasiel, Sarah.Brasiel@ed.gov

Solicitation number: ED-GRANTS-053017-006

The Institute’s purpose in awarding these grants is to provide Special Education Research with emphasis on these areas: Cognition and Student Learning in Special Education; Early Intervention and Early Learning in Special Education; Families of Children with Disabilities; Mathematics and Science Education; Professional Development for Teachers and School-Based Service Providers; Reading, Writing, and Language Development; Social and Behavioral Outcomes to Support Learning; Special Education Policy, Finance, and Systems; Technology for Special Education; Transition Outcomes for Secondary Students with Disabilities. Estimated range of awards is $100K to $760K for up to 5 years.
FY 2018 Survey of International Educational Exchange Activity in the United States

Department of State

https://www.grants.gov/web/grants/view-opportunity.html?oppId=293421

Contact: Dorothy Mora, 202/632-6347, MoraDD@state.gov

Solicitation number: ECA-ECAAS-18-002

To gain an accurate and current picture of international educational exchange activity in the United States in fulfillment of ECA’s mandate, under the Fulbright-Hays Act, to promote mutual understanding through international educational exchange. In order to assess and analyze international educational exchange to and from the United States, the recipient organization, in consultation with ECA, will administer a series of sequential surveys to accredited U.S. higher education institutions focusing on four main sectors: 1) foreign students, 2) foreign scholars, 3) U.S. students studying overseas in credit-bearing and non-credit bearing programs, and 4) foreign enrollees in intensive English language programs in the United States. The recipient should also include data on numbers of foreign students enrolled at minority serving institutions. To obtain data on global student mobility, the recipient will also carry out work with foreign agencies and academic mobility researchers from around the world to collect and report accurate, timely and comprehensive data, which provides an important comparison point for U.S.-focused educational exchange activity. Anticipated award amount is $500K pending the availability of fund and anticipated project completion date is September 30, 2019.

Literature with Positive Messages for Afghan Youth

Department of State

https://www.grants.gov/web/grants/view-opportunity.html?oppId=293415

Contact: Debra Tracey, KabulPASProposals@state.gov

Solicitation number: SCA-KAB-17-AW-007-SCA-04242017

This project will include conducting a nation-wide writing contest to produce six books of fiction for children ages 9 to 12 in Dari and Pashto (three of each), illustrating and publishing the books, and distributing them to target audiences. The content of the books should be accessible for this age group and include one or more of the following five themes: positive community and social engagement, tolerance for differences, gender equality, peaceful conflict resolution, and respect for the government, elders, and other community members. PAS intends to issue the award for a period of 12 months. The goals of this program are to: Support and encourage local authors to write books with educational messages that are culturally specific to Afghan children. Provide Afghan children with books that highlight concepts of peace, acceptance, tolerance, kindness, and gender equality in ways that can be understood and assimilated by youth growing up in a conflict environment. Assist Afghan children in developing their language and learning skills through reading. The floor for this project is set at $90K. The ceiling is set at $110K. Anticipated Award Period is 12 months.

National Fish Habitat Action Plan

Department of the Interior

http://www.grants.gov/web/grants/view-opportunity.html?oppId=280034

Contact: varies with research intent

Solicitation number: F16AS000029

This program provides technical and financial assistance to other federal agencies, states, local governments, Native American tribes, nongovernmental organizations, citizen groups, and landowners for the conservation and management of fish and wildlife resources. This includes minimizing the establishment, spread, and impact of aquatic invasive species. Specifically, aquatic habitat conservation projects under this program must protect, restore, and enhance fish and aquatic habitats, as outlined in the National Fish Habitat Action Plan (Action Plan). Funded projects may be carried out by Fish Habitat Partnerships (FHPs) recognized by the National Fish Habitat Board (Board) or the partners of Board recognized FHPs. Individual awards will range from approximately $1K to $300K. Applications are accepted on a rolling basis.
North American Wetlands Conservation Act Standard Grants

The Standard Grants Program is a competitive, matching grants program that supports public-private partnerships carrying out projects in Canada, the United States, and Mexico. These projects must involve long-term protection, restoration, and/or enhancement of wetlands and associated uplands habitats. In Mexico, projects may also include technical training, environmental education and outreach, organizational infrastructure development, and sustainable-use studies. Projects require 1-to-1 matching.

Contact: Stacy Sanchez, 703/358-2017, stacy_sanchez@fws.gov

National Aeronautics and Space Administration (NASA)

Human Exploration Research Opportunities (HERO)

This NASA Research Announcement (NRA), entitled Human Exploration Research Opportunities (HERO)–2016, solicits applied research in support of NASA’s Human Research Program (HRP). The HRP contains six Elements: Space Radiation, Human Health Countermeasures, Exploration Medical Capability, Behavioral Health and Performance, Space Human Factors and Habitability, and International Space Station Medical Project. Fourteen disciplines or areas support the Program: the Behavioral Health and Performance, Bone, Cardiovascular, Extravehicular Activity, Immunology, Medical Capabilities, Muscle, Nutrition, Pharmacology, Radiation, Sensorimotor, Advanced Food Technology, Advanced Environmental Health, and Space Human Factors Engineering. This NRA covers all aspects of research to provide human health and performance countermeasures, knowledge, technologies, and tools to enable safe, reliable, and productive human space exploration. Awards generally range from under $100K per year for focused, limited efforts (e.g., data analysis) to $1M per year for extensive activities (e.g., development of scientific hardware) and will be made as grants.

National Endowment for the Humanities (NEH)

Humanities Initiatives at Tribal Colleges and Universities

NEH Humanities Initiatives are intended to strengthen and enrich humanities education and scholarship at Tribal Colleges and Universities. For the 2013 competition, NEH is particularly interested in proposals in the following categories: 1) humanities connections to professional training (in such fields as business, law, economics, technology, medicine, and nursing); 2) languages; 3) humanities projects that address the interests of American military veterans; and 4) projects that respond to NEH’s Bridging Cultures initiative. Successful applicants for NEH Humanities Initiatives may be awarded up to $100K for a grant period of twelve to thirty-six months.
The Humanities Collections and Reference Resources (HCRR) program supports projects that provide an essential underpinning for scholarship, education, and public programming in the humanities. Thousands of libraries, archives, museums, and historical organizations across the country maintain important collections of books and manuscripts, photographs, sound recordings and moving images, archaeological and ethnographic artifacts, art and material culture, and digital objects. Funding from this program strengthens efforts to extend the life of such materials 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.

HCRR offers two kinds of awards: 1) for implementation and 2) for planning, assessment, and pilot efforts (HCRR Foundations grants).

Media Projects: Development Grants

NEH encourages projects that engage public audiences through multiple formats in the exploration of humanities ideas. Proposed projects might include complementary components to a film, television, or radio project. These components should deepen the audience’s understanding of the subject in a supplementary manner: for example, book/film discussion programs, supplemental educational websites, or museum exhibitions. Awards for development typically range from $40K to $75K, depending on the complexity of the project, and are usually made for a period of six to twelve months.
Media Projects: Production Grants

National Endowment for the Humanities

https://www.neh.gov/grants/public/media-projects-production-grants

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

Solicitation number:

NEH encourages projects that engage public audiences through multiple formats in the exploration of humanities ideas. Proposed projects might include complementary components to a film, television, or radio project. These components should deepen the audience’s understanding of the subject in a supplementary manner: for example, book/film discussion programs, supplemental educational websites, or museum exhibitions. Awards last for one to three years and may range from $100K to $650K. Production grants support the production and distribution of films, television programs, and radio programs that promise to engage a broad public audience.

National Institutes of Health (NIH)

Ongoing

NIMH Career Transition Award for Tenure-Track and Tenured Intramural Investigators (K22)

National Institutes of Health


Contact:

Solicitation number: PAR-16-389

The primary goal of the NIMH Career Transition Award for Tenure-Track and Tenured Intramural Investigators (K22) Program (hereafter abbreviated as the NIMH Career Transition K22 Program) is to provide support for career intramural investigators at NIMH who aim to transition from the Division of Intramural Research Programs (DIRP) to an independent research faculty position in the extramural community. Applicants should have a demonstrated record of meritorious research in mental health-related fields. The total project period may not exceed 3 years.

Exploratory Grant Award to Promote Workforce Diversity in Basic Cancer Research (R21)

National Institutes of Health


Contact: Behrous Davani, 240/276-6098, Behrous.davani@nih.gov

Solicitation number: PAR-15-053

The purpose of this FOA is to enhance the diversity of the NCI-funded research workforce by supporting and recruiting eligible investigators from groups that have been shown to be underrepresented in the biomedical, clinical, behavioral, and social sciences workforce. This funding opportunity will also provide a bridge to investigators that have completed their research training and may need extra time to develop a larger research project grant application.

The combined budget for direct costs for the two-year project period may not exceed $275,000. No more than $200,000 may be requested in any single year.
Emerging Questions in Cancer Systems Biology (U01)

National Institutes of Health


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

Solicitation number: PAR-16-131

This Funding Opportunity Announcement (FOA) invites cooperative agreement applications for Research Projects that utilize systems biology approaches to address emerging questions in cancer initiation, progression, and treatment. CSBC Research Projects are expected to involve interdisciplinary teams of physical scientists (e.g., engineers, chemists, computer scientists, mathematicians, physicists, population scientists, statisticians, epidemiologists) and cancer researchers (e.g., cancer biologists, oncologists, pathologists and clinicians in relevant disciplines) who collaborate to advance our understanding of cancer biology and oncology. CSBC Research Projects proposed in response to this FOA must demonstrate explicit integration of experimental biology and computational modeling to test and validate novel hypotheses in cancer research. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

National Cooperative Drug/Device Discovery/Development Groups (NCDDG) for the Treatment of Mental or Subst

National Institutes of Health


Contact: Linda Brady, 301/443-3563, lbrady@mail.nih.gov

Solicitation number: PAR-17-185

The intent of this FOA is to encourage applications from academic, biotechnology, biomedical device industry, or pharmaceutical industry investigators interested in participating with the National Institute of Mental Health (NIMH), the National Institute on Drug Abuse (NIDA), or the National Institute on Alcohol Abuse and Alcoholism (NIAAA) in a National Cooperative Drug/Device Discovery/Development Group (NCDDG) program. The objectives of this program are: to advance the discovery, preclinical development, early stage human studies, and/or proof of concept (PoC) testing of new, rationally based candidate agents or devices to treat mental disorders or substance use disorders (SUDs) or alcohol addiction; and to develop novel ligands and novel brain circuit-modulatory technologies as tools to advance biological research on the function of genes, cells, biochemical pathways, distributed neural circuits, and neural oscillatory patterns implicated in the etiology and pathophysiology of mental disorders, SUDs or alcohol addiction, and as potential new therapeutics. Partnerships between academia and industry are strongly encouraged. The objective of this FOA is to establish NCDDG Groups to conduct innovative, high impact research focused on the discovery and testing of chemical entities for novel molecular targets, as well as novel devices for novel circuit/neural dynamic targets implicated in the pathophysiology of mental disorders, or SUDs or alcohol addiction. Application budgets are not limited but need to reflect the actual needs of the proposed project. The total project period may not exceed five years.
Research Education Program Grants for CryoEM Curriculum Development (R25)

National Institutes of Health


Contact: Houmam Araj, 301/451-2020, arajh@nei.nih.gov

Solicitation number: RFA-RM-17-004

This Program will facilitate investigator-driven development and implementation of individualized, self-paced instructional materials for cryoEM research, which includes both cryoEM single particle analysis and cryoelectron tomography (cryoET). The FOA will support curriculum development activities at institutions with expertise in cryoEM for dissemination to the larger biomedical community. Program activities should include all the following: develop and test instructional materials that address distinct stages of the cryoEM and/or cryoET research, disseminate instructional materials for use by the larger biomedical community through online access, evaluate instructional materials, their impact and outcomes through the collection of voluntary feedback from participants, update instructional materials based upon participant feedback and advances in the field, and travel to attend an annual meeting of the PDs/PIs. Applications that request costs for curriculum development may request up to $115K per year direct costs. The scope of the proposed project should determine the project period. The maximum project period is 3 years.

Strategic Alliances for Medications Development to Treat Substance Use Disorders (R01)

National Institutes of Health


Contact: Ivan Montoya, 301/827-5936, imontoya@mail.nih.gov

Solicitation number: PAR-16-430

The purpose of this FOA is to support research that advances compounds towards FDA approval by leveraging NIDA funds with the strengths and resources of outside organizations, such as for-profit and not-for-profit entities, including academic institutions, pharmaceutical and biotechnology companies, private and public foundations, and small businesses. Applications from single entities that possess considerable resources for medications development will also be considered, provided the entity demonstrates a significant resource commitment to the proposed project. A resource commitment from a single entity could, for example, consist of salary support for key personnel or production and formulation of clinical trial material. It is anticipated that in comparison with traditional grant-funded research, strategic alliances will increase the pace at which medications to treat Substance Use Disorders (SUDs) move through the drug development process. Both the project period and budget of the grant are consistent with the objective of accelerating the pace of medications development compared to traditional research project grant funding. Project aims can range from the development of a new molecular entity to the expansion of an existing medication’s clinical indication(s). Each project should have a defined entry and exit point in the medications development pathway, with the objective of advancement in the FDA approval process. It is hoped that support for these collaborations will accelerate the rate of medications development for SUDs. Application budgets for direct costs may be up to $3M per year, but need to reflect the actual needs of the proposed project. The maximum period of support is 3 years.
Revision Applications for Regenerative Medicine Innovation Projects (RMIP) (U01)

The NIH and participating NIH Institutes and Centers and the U.S. Food and Drug Administration, through this FOA, invite revision applications, from investigators with active U01 research project awards that will support clinical research studies aimed at furthering the field of regenerative medicine (RM) using adult stem cells. A competing revision is a request for an increase in support in a current budget period for expansion of the project's approved scope or research protocol. These revision applications are expected to focus on innovative projects that propose solutions to widely recognized issues in the development of safe and effective regenerative medicine therapies. Emphasis will be given to projects that address critical issues in product development relevant for regulatory submissions. Areas of focus may include improved tools, methods, standards, or applied science that support a better understanding and improved evaluation of product manufacturing, quality, safety, or effectiveness. Toward these ends, the NIH will consider applications for clinical research involving adult stem cells in the context of generating or supplementing the necessary evidence for clinical development, including, but not limited to, the submission of a pre-Investigational New Drug (IND) or pre-Investigational New Device Exemption (IDE) package; the submission of an IND/IDE application; or to support such research conducted under an authorized IND or IDE. Application budgets should not exceed $324.5K per year in direct costs. Applicants may request support for 1 year.

Global Infectious Disease Research Training Program (D43)

This Funding Opportunity Announcement (FOA) encourages applications for the Global Infectious Disease Research Training program from U.S. and LMIC research institutions. The application should propose a collaborative research training program that will strengthen the capacity of a LMIC institution to conduct infectious disease research that focuses on 1) major endemic or life-threatening emerging infectious diseases 2) neglected tropical diseases 3) infections that frequently occur as co-infections in HIV infected individuals or 4) infections associated with non-communicable disease conditions of public health importance in LMICs. FIC will support innovative research training programs that are designed to build sustainable infectious disease research capacity at an institution in an endemic LMIC. Sustainable infectious disease research capacity is known to require a critical mass of scientists and health research professionals with in-depth scientific expertise and complementary leadership skills that enable the institution to conduct independent, internationally-recognized infectious disease research relevant to the health priorities of their country. Applications budgets are limited to $230K per year for new awards and $276K per year for renewal awards (total direct costs).
Human-Animal Interaction (HAI) Research (R01)

National Institutes of Health


Contact: Layla Esposito, 301/435-6888, espositl@mail.nih.gov

Solicitation number: PAR-17-231

The objective of this program of research is to encourage interdisciplinary studies to determine the impact of HAI in and outside the home environment on child and adolescent health and development, as well as therapeutically across the lifespan, through observational studies, experiments and clinical trials. For the adult population, the objective of this FOA is to build the empirical evidence base around animal-assisted interventions for those with intellectual, developmental or physical disabilities and for those in need of therapeutic and/or rehabilitative services. This FOA calls for research to examine 1) the impact of HAI on typical and atypical child development and health; 2) the evaluation of animal-assisted intervention for children and adults with disabilities or in need of rehabilitative services; 3) the effects of animals on public health, including cost effectiveness of involving animals in therapeutic interventions to treat or prevent disease. Both clinical trials and other clinical research can be submitted under this FOA. Projects should be theoretically based and seek to answer questions that address key developmental, health and safety issues regarding the interactions with animals in home, institutional or therapeutic settings. Research to identify human and animal temperamental, biobehavioral, or genetic markers of suitable behavioral traits for HAI, as well as markers that are amenable to change and can document changes associated with HAI are also encouraged. Physiologic measures (e.g. neuroendocrine, genetic, heart rate, neuroimaging), as well as direct or observational measures of behavioral, cognitive, psychosocial, and/or psychoeducational outcomes are encouraged. Budgets are limited to $499K Direct Costs per year. Application budgets should reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

Early Phase Clinical Trials in Imaging and Image-Guided Interventions (R01)

National Institutes of Health


Contact: Lori Henderson, 240/276-5930, hendersonlori@mail.nih.gov

Solicitation number: PAR-17-167

This FOA is intended to support clinical trials conducting preliminary evaluation of the safety and efficacy of imaging agents, as well as an assessment of imaging systems, image processing, image-guided therapy, contrast kinetic modeling, 3-D reconstruction and other quantitative tools. As many such preliminary evaluations are early in development, this FOA will provide investigators with support for pilot (Phase I and II) cancer imaging clinical trials, including patient monitoring and laboratory studies. This FOA supports novel uses of known/standard clinical imaging agents and methods as well as the evaluation of new agents, systems, or methods. The imaging and image-guided intervention (IGI) investigations, if proven successful in these early clinical trials, can then be validated in larger studies through competitive R01 mechanisms, or through clinical trials in the Specialized Programs of Research Excellence (SPOREs), Cancer Centers and/or the NCI's National Clinical Trials Network. The goal of this FOA is to promote and accelerate clinical evaluation of imaging modalities, agents, methods, and image-guided interventions to improve cancer management. Therefore, projects that propose Phase I or early Phase II studies of imaging agents and methodologies, or feasibility studies of imaging devices, image-guided surgery or therapies, image-guided radiation therapy using external beams and/or systemic radionuclides, should show that the anticipated preliminary data will be able to justify a future grant application for confirmatory Phase II or Phase III trial. A range of trials at different stages of development are allowed, including first in human Phase I and II single-site or multi-site studies based on conventional or adaptive trial designs (if economically feasible). The early studies should provide important initial information regarding imaging investigations (e.g. safety, tolerability, dosing). Later-stage studies should yield data that allow clear go/no-go decisions regarding whether these imaging investigations or image-guided interventions should proceed to an efficacy trial. Application budget should reflect the actual needs of the proposed project and is limited to $500K in direct costs for the total project period. No more than $250K in direct costs may be requested in any single year. The total project period may not exceed 3 years.
Research Answers to NCI's Provocative Questions (R01)

National Institutes of Health

https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-17-017.html

Contact: Emily Greenspan, 301/395-2871, greenspanej@mail.nih.gov

Solicitation number: RFA-CA-17-017

The purpose of this FOA is to support research projects designed to solve specific problems and paradoxes in cancer research identified by the National Cancer Institute (NCI) Provocative Questions initiative. These problems and paradoxes phrased as questions are not intended to represent the full range of NCI’s priorities in cancer research. Rather, they are meant to challenge cancer researchers to think about and elucidate specific problems in key areas of cancer research that are deemed important but have not received sufficient attention. Some of these "Provocative Questions" (PQs) stem from intriguing but older, neglected observations that have never been adequately explored. Other PQs are built on more recent findings that are perplexing or paradoxical, revealing important gaps in current knowledge. Finally, some PQs reflect problems that traditionally have been thought to be intractable but that now may be open to investigations using new strategies and recent technical advances. Each research project proposed in response to this FOA must be focused on addressing one particular research problem defined by one specific PQ selected from the list. Projects proposed to address specific PQs may use strategies that incorporate ideas and approaches from multiple disciplines, as appropriate. Transdisciplinary projects are encouraged as long as they serve the scientific focus of the specific PQ chosen. Application budgets are not limited but need to reflect the actual needs of the proposed project. The total project period may not exceed 5 years.

Revision Applications to NCI-supported R01 Awards to Include Research on the NCI's Provocative Questions (R01)

National Institutes of Health


Contact: Emily Greenspan, 301/395-2871, greenspanej@mail.nih.gov

Solicitation number: RFA-CA-17-019

This FOA, issued by the National Cancer Institute (NCI), invites revision applications from investigators with active NCI R01 research grants with at least two (2) years of support remaining on the parent grant at the estimated time of award. This FOA encourages sound and innovative research that directly addresses the PQs, including research that helps validate PQ research outcomes or adopt and disseminate PQ research results that impact cancer research and clinical care. Studies proposed in the revision applications must correspond to additional specific aims, expanding the scope of individual, already funded projects of the parent R01 award. There are also two FOAs intended for new project applications (RFA-CA-17-017, and RFA-CA-17-018 for R01, and R21 grants, respectively). The budget may not exceed $150K in direct costs per year. Applicants may request support for up to two (2) years, not to exceed the remaining number of years on the parent grant. The parent grant must be active when the application is submitted. If a no-cost extension is needed on the parent grant, it must be in place before the revision application is submitted. The budget may not exceed $150K in direct costs per year. Applicants may request support for up to two (2) years, not to exceed the remaining number of years on the parent grant. The parent grant must be active when the application is submitted. If a no-cost extension is needed on the parent grant, it must be in place before the revision application is submitted.
Revision Applications to National Cancer Institute (NCI)-supported P01 Awards to Include Research on the NCI's Pr

This FOA, issued by the National Cancer Institute (NCI), invites revision applications from currently funded NCI P01 Program Projects with at least two (2) years of support remaining on the parent grant at the estimated time of award. This FOA encourages sound and innovative research that directly addresses the PQs, including research that helps validate PQ research outcomes or adopt and disseminate PQ research results that impact cancer research and clinical care. Studies proposed in the revision applications must correspond to a new research project, expanding the scope the parent Program Project grant. There are also two FOAs intended for new project applications (RFA-CA-17-017, and RFA-CA-17-018 for R01, and R21 grants, respectively). The budget may not exceed $150K in direct costs per year. Applicants may request support for up to two years, not to exceed the remaining number of years on the parent grant. The parent grant must be active when the application is submitted. If a no-cost extension is needed on the parent grant, it must be in place before the revision application is submitted.

Fast-Track Development of Medications to Treat Cannabis Use Disorders UG3/UH3

The purpose of this Funding Opportunity Announcement (FOA) is to accelerate the discovery and development of medications to treat Cannabis Use Disorders (CUDs) using the UG3/UH3 mechanism. The objective is to advance medications toward the ultimate goal of obtaining FDA approval. Advances in understanding the cannabinoid systems and the effects of marijuana on the brain, coupled with the availability of both novel and marketed medications that may be efficacious to treat these disorders, offer unprecedented opportunities to develop safe and effective pharmacotherapies for CUDs. The compounds to be evaluated can be small molecules or biologics. They can be tested in pre-clinical models and/or for the clinical manifestations of CUDs or their consequences such as withdrawal, craving, or cannabis use relapse. Applications may focus on the development of new chemical entities, new formulations of marketed medications available for other indications, or combinations of medications that hold promise for the treatment of CUDs. Application budgets are limited to $1M direct costs and need to reflect the actual needs of the proposed project. The project period is limited to 2 years for the UG3 phase and 3 years for the UH3 phase.
Ancillary Studies to Identify Behavioral and/or Psychological Phenotypes Contributing to Obesity (R01)

National Institutes of Health


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

Solicitation number: PAR-16-304

The purpose of this FOA is to encourage grant applications to support the addition of measures of psychological and/or behavioral constructs or weight-related variables (e.g.; BMI, body composition) to existing or new research studies in humans with the goal of elucidating behavioral or psychological phenotypes that explain individual variability in weight trajectory or response to obesity prevention or treatment interventions. The intent is to support the addition of new measurement in domains other than those covered in the parent grant as a means of elucidating the behavioral and psychological factors that may explain individual differences in weight status. For the purposes of this FOA, behavioral factors related to energy intake include overt actions/behavior (e.g.; objective observation of eating event including measures such as quantity, selection/quality, and speed of intake) and underlying psychological processes related to self-regulation of intake such as cognitive control, affective response, learning, and motivation. The rationale is that an improved understanding of the individual characteristics and processes that explain energy intake patterns can lead to better matching of individuals to prevention or treatment approaches and identify novel targets for more efficacious individual and population level approaches to weight management. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

National Career Development Consortium for Excellence in Glycosciences (K12)

National Institutes of Health


Contact: Rita Sarkar, 301/827-8289, sarkarr@nhlbi.nih.gov

Solicitation number: RFA-HL-18-013

The objective of this K12 career development program is to foster a core of emerging biomedical scientists in basic and applied glycobiology, using a combination of didactic instructions and skills development in laboratory glycosciences within the context of a well-defined and timely translational glycoscience project in HLBS sciences. The goal of this program is to enable a nationwide effort towards translation of knowledge from basic structural glycobiology to applications in clinical medicine relevant to heart, lung, blood and sleep disorders by utilizing advances from structural glycan analysis to manipulation of these complex sugars for the evaluation of their roles as mediators in physiology, disease processes, diagnostics and therapeutics. To accomplish this goal, this FOA will support applications that propose an integrated multi-disciplinary K12 career development program in glycosciences that supports four K12 sites across the nation and that encompasses all facets of glycobiology. The proposed institutional research training program may complement other ongoing research training and career development programs at the applicant institution, but the proposed program must be clearly distinct from related programs currently receiving Federal support. This FOA invites applications to create innovative institutional research career development programs to foster excellence in development of the next generation of biomedical investigators in the glycosciences, a mission area of the National Heart, Lung, and Blood Institute (NHLBI). Application budgets may not exceed direct costs of $900K in FY 2018, $900K in FY 2019, $900K in FY 2020, $900K in FY 2021 and $900K in FY 2022. The scope of the proposed project should determine the project period. The maximum project period is 5 years.
Identification of Genetic and Genomic Variants by Next-Gen in Sequencing Non-human Animal Models (U01)

National Institutes of Health


Contact: Da-Yu Wu, 301/435-4649, wudy@nida.nih.gov

Solicitation number: PAR-15-120

The goals of this initiative are to identify gene variants of traits associated with addiction and substance abuse in selectively bred, and outbred non-human animal models using methodologies of Next Gen-Sequencing, mapping, and genotyping. This announcement encourages applications for projects aimed at the discovery of gene variants in outbred or selectively bred non-human animals through the use of Next-Gen Sequencing technologies. The proposed projects should be based on data demonstrating the relevance of the traits to drug abuse behaviors and processes of addiction. Investigators may employ previously selectively bred animals, re-derived strains, strains selected for some specific new phenotypes, beginning with a novel progenitor population, or an outbred population. Vulnerability phenotypes, for purposes of this FOA, are defined as individual differences that convey increased propensity to acquire, maintain or escalate to uncontrollable, compulsive drug intake, or increased vulnerability to relapse to drug seeking and drug-taking following a period of abstinence. Vulnerability phenotypes may be defined behaviorally or neurobiologically, must have demonstrated heritability, and be suitable for mapping in outbred or selectively bred strains. This announcement encourages applications for projects aimed at the discovery of gene variants in outbred or selectively bred non-human animals through the use of Next-Gen Sequencing technologies. The proposed projects should be based on data demonstrating the relevance of the traits to drug abuse behaviors and processes of addiction. Investigators may employ previously selectively bred animals, re-derived strains, strains selected for some specific new phenotypes, beginning with a novel progenitor population, or an outbred population. Vulnerability phenotypes, for purposes of this FOA, are defined as individual differences that convey increased propensity to acquire, maintain or escalate to uncontrollable, compulsive drug intake, or increased vulnerability to relapse to drug seeking and drug-taking following a period of abstinence. Vulnerability phenotypes may be defined behaviorally or neurobiologically, must have demonstrated heritability, and be suitable for mapping in outbred or selectively bred strains. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is five years.

Environmental influences on Placental Origins of Development (ePOD) R01

National Institutes of Health


Contact: Thaddeus Schug, 919/541-9469, schugt@niehs.nih.gov

Solicitation number: RFA-ES-17-005

The purpose of this FOA is to stimulate multidisciplinary research projects from the scientific community that use a combination of animal/cell models and non-invasive human placenta tissues or biomarkers to investigate how early life exposures affect placental growth, development, and function, and the subsequent health of the offspring. Studies must include projects in both human-based tissues and/or animal-based/cell model systems. We encourage studies to effectively integrate research between projects to ultimately maximize our understanding of how early life exposures impact human placental health and the subsequent effects on fetal development. For this initiative, human-based studies should rely on existing, or easily obtained (i.e., banked specimens), placental tissue or biomarkers of placental, maternal, and/or fetal exposures. Examples include, but not limited to, maternal urinary biomarkers, placenta-derived hormones, sloughed off placental materials, use of imaging technologies, or analysis of term placentas. These matrices are critical in establishing early stage biomarkers to identify chemically-induced placental changes during pregnancy to predict child health outcomes. Application budgets are limited to $400K (direct costs)/year and should reflect the actual needs of the proposed project. The maximum project period is 5 years.
Identification of Reproductive-Tract Specific Proteins/Transcripts for the Development of Male and Female Non-HA

National Institutes of Health


Contact: Daniel Johnston, 301/827-4663, daniel.johnston@nih.gov

Solicitation number: RFA-HD-18-002

A goal of the NICHD Contraceptive Research Branch is to lead a paradigm shift in the development of contraceptive methods to include specific/selective non-steroidal based mechanisms for men and women. The ultimate goal of this FOA is to develop a comprehensive identification of reproductive tract-specific gene products that may be required for the production of mature sperm or developmentally competent eggs (contraceptive targets). This FOA represents a crucial first step of identifying reproductive tract-specific gene products for the subsequent selection of high quality targets for validation and further development. It is expected that this FOA will result in an annotated list of reproductive tract-specific targets that do not act via classical steroidal mechanisms to stimulate both basic research and product development. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 3 years.

Dysregulation of Immune Cell Regulatory Pathways by Mtb in the Context of HIV Infection (R61/R33)

National Institutes of Health


Contact: Daniel Frank, 301/761-6256, Daniel.Frank@nih.gov

Solicitation number: RFA-AI-17-010

The purpose of this FOA is to invite applications to support innovative preclinical research to identify Mycobacterium tuberculosis (Mtb)-mediated changes in key immune cell regulatory pathways in the context of HIV infection and evaluate strategies to reverse these changes to treat TB and TB/HIV infection, limit long-term disease associated tissue damage, and/or potentiate vaccine effectiveness. Research is particularly needed to evaluate the effects of these pathogens on core cell regulatory signaling molecules, including PARPs, sirtuins, mTOR, GSK-3, HIF-1 alpha, and AMPK, that are conserved in some form in all eukaryotic cells. Studies of other diseases have identified modulation of these molecules and their associated pathways as important drivers of immune dysfunction and disease progression. Achieving a deeper understanding of how Mtb manipulates core cell regulatory pathways and how these manipulations are altered in the context of HIV coinfection is crucial to accelerate progress. Application budgets are not limited but need to reflect the actual needs of the proposed project. Applications with a project period less than 5 years are encouraged where feasible.

Innovation for HIV Vaccine Discovery (R01)

National Institutes of Health


Contact: Jon Warren, 240/627-3032, JWarren@niaid.nih.gov

Solicitation number: PAR-17-263

The purpose of this FOA is to encourage applications for support of high risk, high impact, early discovery research on vaccine approaches to prevent acquisition of or ongoing infection by HIV. Developing an effective vaccine requires a better understanding of how to optimally trigger multiple adaptive T and B cell responses, and possibly innate immunity as well, so as to prevent or limit the initial infection and/or eliciting responses that contain and eliminate virus that manages to establish infection and latent reservoirs. A secondary goal of this FOA is to encourage involvement of investigators new to the HIV vaccine field as a means to build interdisciplinary approaches among virologists, immunologists, molecular and systems biologists, microbiologists, clinical scientists and other relevant specialists. In keeping with the high impact, high risk nature of the research, preliminary data are not required for this FOA. Applicants may choose other methods to demonstrate their capacity for success of the project and chosen approach.
Clinical Observational (CO) Studies in Musculoskeletal, Rheumatic, and Skin Diseases (R01)

National Institutes of Health


Contact: James Witter, 301/594-1963, witterj@mail.nih.gov

Solicitation number: PAR-15-115

This FOA is to encourage Research Project Grant (R01) applications to pursue clinical observational (CO) studies to obtain data necessary for designing clinical trials for musculoskeletal, rheumatic, or skin diseases or conditions. Research data from observational cohort studies can enhance clinical trial design by providing essential information about disease symptoms, stages and timing of disease progression, comorbid conditions, availability of potential clinical trial participants, and outcomes that are important to patients. CO studies also can facilitate efforts to develop and/or validate objective biomarkers or subjective outcome measures for use in a future trial or trials. Applicants to this FOA are encouraged to propose studies that address significant obstacles or questions in the design of a clinical trial, such as determining the appropriate primary or secondary outcome measures, or identifying the stages of disease during which patients are most likely to respond to an intervention. Only observational studies will be supported through this FOA. The maximum award is $450K over a three-year period. This FOA runs in parallel with multiple FOAs of identical scientific scope, PAR-14-192, PAR-14-199, and PAR-14-200, which utilize the R21 Exploratory Clinical Trials Research Grant, the U34 Planning Cooperative Agreement, and the U01 Research Project – Cooperative Agreements respectively.

Behavioral Interventions for Prevention of Opioid Use Disorder or Adjunct to Medication Assisted Treatment-SAM

National Institutes of Health


Contact: Robin Boineau, 301/435-6286, Robin.Boineau@mail

Solicitation number: RFA-AT-18-001

The purpose of this FOA is to solicit applications proposing to test approaches using behavioral interventions for primary or secondary prevention of OUD or as an adjunct to MAT for OUD in general healthcare in the context of states’ plans for use of the funds authorized under the 21st Century Cures Act. A primary goal of this FOA is to encourage studies evaluating whether select behavioral interventions may improve uptake or adherence to MAT, relapse prevention, or prevention of OUD in at risk people. Applications proposing only descriptive analyses for both phases or observational studies without employing strong statistical methods designed to mitigate bias and support causal inferences are not responsive to this FOA and will not be reviewed or considered for funding. Direct costs will vary with the scope of the project. Support for the R21 phase may be for up to one year in duration and may not exceed $200K. The R33 phase may not exceed three years and direct costs must not exceed $500K in any one year. The project period is limited to 1 year for the R21 phase and to 3 years for the R33 phase.

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

National Institutes of Health


Contact: Lorette Javois, 301/435-5541, javoisl@mail.nih.gov

Solicitation number: PAR-17-236

The purpose of this funding opportunity announcement (FOA) is to support innovative applications that will inform our understanding of structural birth defects through the use animal models in conjunction with translational/clinical approaches. Applicants are encouraged to take advantage of advances in genetics, biochemistry, molecular, and developmental biology to identify specific genetic, epigenetic, environmental, or gene/environment interactions associated with the susceptibility to and variability of structural birth defects in human populations. Applicants funded through this FOA will join the NICHD Birth Defects Working Group and participate in annual meetings designed to provide a forum to discuss research progress, exchange ideas, share resources, and foster collaborations relevant to the goals of the NICHD’s Birth Defects Initiative. Budgets are limited to $499K Direct Costs per year. Application budgets should reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.
Integrative Computational Biology for Analysis of NHLBI TOPMed Data (R01)
National Institutes of Health


Contact: Rebecca Beer, 301/594-0977, rebecca.beer@nih.gov

Solicitation number: RFA-HL-18-020

The purpose of this FOA is to support integrated analysis of whole genome, large scale “omic” data generated by the NHLBI’s Trans-Omics for Precision Medicine (TOPMed) program and associated phenotype and clinical data using systems approaches. Ultimately, these studies will advance our understanding of the molecular underpinnings of heart, lung, blood, and sleep disease. Application budgets may not exceed $324K in direct costs per year and must reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is two years.

PsychENCODE: Non-coding Functional Elements in the Human Brain and their Role in the Development of Psychiatric Disorders

National Institutes of Health


Contact: Geetha Senthil, 301/402-0754, senthilgs@mail.nih.gov

Solicitation number: PAR-17-257

This FOA will support research in the discovery and characterization of the full spectrum of non-coding functional genomic elements (e.g., enhancers, promoters, silencers, non-coding RNAs, chromatin interactions) across brain regions, cell types, and developmental time periods to elucidate their role(s) in the molecular pathophysiology of mental illness through genome-wide examination of various human cell and tissue sources (e.g., human brain). Applicants should propose projects that employ unbiased, cutting-edge, state-of-the-art, and high throughput genome-wide approaches, computational methods, and experimental assays using appropriate cells or tissues derived from patient populations to correlate findings with the development of mental illnesses and outcomes relevant to brain function. Another focus of this FOA is to support the identification of human-specific functional regulatory elements, preferably in different neural and glial cell types across brain regions in patient populations. Preference will be given to projects which are proposed by a highly interactive and synergistic team of investigators with complementary expertise. Successful applications will include expertise in genetics, neuro-developmental biology, psychiatry, high-throughput analyses, whole genome sequence analysis, computational bioinformatics, and/or other fields relevant to the FOA. Application budgets are not limited, but need to reflect the actual needs of the proposed project. The total project period for an application submitted in response to this FOA may not exceed 5 years.

Translational Research in Pediatric and Obstetric Pharmacology and Therapeutics (R03)

National Institutes of Health


Contact: Zhaoxia Ren, 301/402-9340, zren@mail.nih.gov

Solicitation number: PAR-17-188

The purpose of this funding opportunity announcement (FOA) is to encourage applications for translational and clinical research as well as clinical trials that will advance our knowledge about the underlying mechanisms of drug action, response, and safety in children at various developmental stages, and in women during pregnancy and lactation. The overall goals of the FOA are to improve the safety and effectiveness of current drugs for pediatric or obstetric patients, and to enhance the development of new drugs or a safer usage of the existing drugs for tailored therapies to meet emerging clinical needs for these special populations. Studies that investigate drug metabolism, disposition, transporters and their associated signaling pathways contributing to drug safety, as well as underlying mechanisms of drug action in children at different developmental stages or in women during pregnancy and lactation are of particular interest. Studies that identify and validate molecular targets leading to potential or novel therapeutic agents or new biologics for pediatric or obstetric populations are highly encouraged. Studies that apply scientific discoveries generated from the basic science laboratory and preclinical studies to clinical studies/trials in pediatric or obstetric populations are also encouraged. Application budgets are limited to $50K in direct costs per year. The scope of the proposed project should determine the project period. The maximum project period is two years.
Mechanistic Ancillary Studies to Ongoing Interventional Clinical Trials (R01)

Mechanistic Ancillary Studies to Ongoing Interventional Clinical Trials (R01)

National Institutes of Health


Contact: Ricardo Cibotti, 301/451-5888, ricardo.cibotti@nih.gov

Solicitation number: RFA-AR-18-002

This FOA solicits applications that propose to conduct time-sensitive mechanistic ancillary studies related to the NIAMS mission in conjunction with privately or publicly funded, ongoing interventional clinical trials. The ongoing “parent” project has to be an interventional clinical trial that can provide a cohort of well-characterized patients, infrastructure, data, and biological samples. Applications submitted in response to this FOA will undergo an accelerated review and award process. The objective of this FOA is to provide a flexible mechanism to leverage established resources and maximize the return on existing investments in parent projects. Successful ancillary studies will enhance the scientific content and value of the parent projects, improve the research community’s understanding of a disease or organ system in the NIAMS portfolio, and thus may identify novel targets for diagnosis, treatment, and prevention of disease. Budgets for direct costs of up to $300K per year may be requested. The scope of the proposed project should determine the project period. The maximum project period is four years.

Blueprint Neurotherapeutics Network (BPN): Small Molecule Drug Discovery and Development for Disorders of the Brain

Blueprint Neurotherapeutics Network (BPN): Small Molecule Drug Discovery and Development for Disorders of the Brain

National Institutes of Health


Contact: Charles Cywin, 301/496-1779, charles.cywin@nih.gov

Solicitation number: PAR-17-205

The Blueprint Neurotherapeutics Network (BPN) invites applications from neuroscience investigators seeking support to advance their small molecule drug discovery and development projects into the clinic. Participants in the BPN are responsible for conducting all studies that involve disease- or target-specific assays, models, and other research tools and receive funding for all activities to be conducted in their own laboratories. In addition, applicants will collaborate with NIH-funded consultants and can augment their project with NIH contract research organizations (CROs) that specialize in medicinal chemistry, pharmacokinetics, toxicology, formulations development, chemical synthesis including under Good Manufacturing Practices (GMP), and Phase I clinical testing. Projects can enter either at the Discovery stage, to optimize promising hit compounds through medicinal chemistry, or at the Development stage, to advance a development candidate through Investigational New Drug (IND)-enabling toxicology studies and phase I clinical testing. Projects that enter at the Discovery stage and meet their milestones may continue on through Development. BPN awardee Institutions retain their assignment of IP rights and gain assignment of IP rights from the BPN contractors (and thereby control the patent prosecution and licensing negotiations) for drug candidates developed in this program. Application budgets are not limited but need to reflect the actual needs of the proposed project. Applicants may seek up to one year of UG3 funding. The UH3 phase cannot exceed four years. The actual duration of individual projects will depend on successful achievement of milestones and conditions as described in Milestones Section of the program overview.
7/4/2017  Letter of Intent
8/9/2017  Application

Sleep Health and Circadian Biology in HIV-Related Comorbidities (R01)

National Institutes of Health


Contact: Lis Caler, 301/435-0222, Lis.Caler@nih.gov

Solicitation number: RFA-HL-18-005

The main research objectives of this FOA are: 1) to better understand how HIV influences sleep patterns in the HIV-treated and untreated population; and 2) to better understand how sleep and circadian disturbances influence or synergize with HIV-associated comorbidities. A better understanding of these influences opens opportunities to systematically explore ways to reduce the risk/severity of HIV-associated comorbidities including cardiovascular, neurological, metabolic, autonomic, and respiratory complications. This FOA is intended to support projects that propose advances in sleep/circadian biology to high priority HIV/AIDS research with the goal of identifying cross-cutting underlying molecular mechanisms that will inform and potentially enhance prevention, diagnosis, and treatment strategies. It is anticipated that the research to address these questions will require collaborations across multiple disciplines therefore multidisciplinary teams are a requisite for this FOA. Depending on the aims of the proposed work, areas of expertise may include immunology, circadian rhythm biology, molecular biology, sleep sciences, and virology. Sharing of methodology, data, models, and reagents will be strongly encouraged as appropriate and consistent with program goals. Yearly investigators’ meetings will be used to promote a synergistic and collaborative program. Application budgets may not exceed direct costs of $350K per year in fiscal years 2018 through 2021. The scope of the proposed project should determine the project period. The maximum project period is up to 4 years.

7/10/2017  Application
7/10/2017  Letter of Intent
8/10/2017  Application
8/11/2017  Letter of Intent
9/11/2017  Application
9/10/2017  Letter of Intent
10/10/2017  Application
10/13/2017  Letter of Intent
11/13/2017  Application
11/11/2017  Letter of Intent
12/11/2017  Application

Time-Sensitive Obesity Policy and Program Evaluation (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-15-346

This FOA establishes an accelerated review/award process to support time-sensitive research to evaluate a new policy or program expected to influence obesity related behaviors (e.g., dietary intake, physical activity, or sedentary behavior) and/or weight outcomes in an effort to prevent or reduce obesity. This FOA is intended to support research where opportunities for empirical study are, by their very nature, only available through expedited review and funding. All applications to this FOA must demonstrate that the evaluation of an obesity related policy and/or program offers an uncommon and scientifically compelling research opportunity that will only be available if the research is initiated with minimum delay. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is five years.
Imaging and Biomarkers for Early Cancer Detection (R01)
National Institutes of Health, National Cancer Institute (NCI)

Contact: Richard Mazurchuk, 240/276-7126, richard.mazurchuk@nih.gov
Solicitation number: PAR-16-089

The purpose of this FOA is to: (i) invite researchers to submit collaborative research project (U01) applications to improve cancer screening, early detection of aggressive cancer, assessment of cancer risk and cancer diagnosis aimed at integrating multimodality imaging strategies and multiplexed biomarker methodologies into a singular complementary approach, and (ii) establish a Consortium for Imaging and Biomarkers (CIB) to perform collaborative studies, exchange information, share knowledge and leverage common resources. The research will be conducted by individual multi-disciplinary research teams, hereafter called Units. All Units are expected to participate in collaborative activities with other Units within the Consortium. Application budgets are not limited, but need to reflect the actual needs of the proposed project. The maximum project period is five years.

Developing Biomarkers for Trastuzumab-induced Cardiotoxicity
National Institutes of Health

Contact: Wen Jin Wu, 240/402-6715
Solicitation number: RFA-FD-17-006

This award is intended to provide support to conduct clinical studies at a clinical site with capability and patients samples to investigate potential biomarker (cMLC1) for trastuzumab-induced cardiotoxicity. There will be an establishment of the assay to quantitatively measure cMLC-1 in humans. Investigations will be conducted to determine the value of cMLC-1 in humans as an early predictor of cardiotoxicity in a pilot study. A comparison will be done of the level of cMLC-1 in 5 patients who subsequently developed cardiotoxicity and 5 patients who did not. Patients will be matched for age. Cardiotoxicity was defined using the Cardiac Review and Evaluation Committee for Trastuzumab (CREC) criteria as a decrease of more than 10% in the echocardiographic left ventricular ejection fraction to a value of less than 55%. Women were monitored every 3 months for 15 months. The archived plasma samples collected at multiple time points indicated below schematically will be tested for the biomarker cMLC-1 and for troponin I, an established marker for heart muscle damage as a control. Application budgets need to reflect the actual needs of the proposed project and should not exceed the following in total costs (direct and indirect). The maximum project period is 2 years.

AHRQ National Research Service Award (NRSA) Institutional Research Training Grant (T32)
National Institutes of Health

Contact: Shelley Benjamin, 301/427-1528, Shelley.Benjamin@ahrq.hhs.gov
Solicitation number: RFA-HS-17-011

Through its National Research Service Award (NRSA) Institutional Research Training Grant (T32) program, AHRQ plans to fund a broad array of health services research training programs focused on promoting improvements in clinical and health systems’ practices. These training programs are designed to provide didactic and/or experiential training for predoctoral and postdoctoral trainees interested in: (1) improving clinical practice or the health care system's ability to provide access to and delivery of high quality, high-value health care; and/or (2) providing policymakers with the ability to assess the impact of system changes on outcomes, quality, access to, cost, and use of health care services. 42 U.S.C. 299a(b) authorizes AHRQ to provide training grants in the field of health services research. The objective of the NRSA T32 program is to develop and/or enhance research training opportunities for individuals interested in careers in health services, behavioral, and clinical research that are relevant to the AHRQ mission. The total costs (direct and indirect) for a project awarded under this FOA will not exceed $600K in any given year or $3M for the entire five year project period. The award project period is five years.
Revision Applications for Validation of Biomarker Assays Developed Through NIH-Supported Research Grants (R01)

National Institutes of Health


Contact:  Kelly Kim, 240/276-7811, kimke@mail.nih.gov

Solicitation number:  PAR-17-003

The purpose of this Funding Opportunity Announcement (FOA) is to accelerate the pace of translation of NCI-supported methods/assays/technologies (referred to as "assays") to the clinic. Specifically, the focus of this FOA is on the adaption and clinical validation of molecular/cellular/imaging markers (referred to as "markers" or "biomarkers") for cancer detection, diagnosis, prognosis, monitoring, and prediction of response to treatment, as well as markers for cancer control and prevention. Research applications may support acquisition of well-annotated specimens from NCI-supported or other clinical trials or observational cohorts/consortia for the purpose of clinical validation of the assay. Research projects proposed for this FOA encourage multi-disciplinary interaction among scientific investigators, assay developers, clinicians, statisticians and clinical laboratory staff. Clinical laboratory scientist(s) and statistical experts are highly encouraged to comprise integral parts of the application. This FOA is not intended to support early stage development of technology or the conduct of clinical trials, but rather the adaption and validation of assays to the point where they could be integrated into clinical trials as investigational assays/tools/devices. Application budgets are limited to $150K in direct costs in any single year.

Mechanisms and Consequences of Sleep Disparities in the U.S. (R01)

National Institutes of Health


Contact:  Rina Das, 301/496-3996, dasr2@mail.nih.gov

Solicitation number:  PAR-17-234

The purpose of this initiative is to promote research to understand the underlying mechanisms contributing to sleep deficiencies among race and ethnic minorities and other health disparity populations and how sleep deficiencies may lead to disparities in health outcomes. For the purposes of this initiative, sleep deficiencies are defined as insufficient sleep duration, poor sleep quality, irregular timing of sleep, and sleep/circadian disorders. In addition, research on quality of sleep and excess sleep and their health consequences is of interest for this initiative. The overall objective of this initiative to support research to 1) understand the underlying social, cultural, environmental or biological factors contributing to sleep deficiencies among minority and health disparity populations and 2) how sleep deficiencies may lead to disparities in health outcomes. In addition, research on how quality of sleep and excess sleep affect health and how differences in sleep quality may lead to health disparities, is of interest. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

Pre-application: Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping

National Institutes of Health


Contact:  

Solicitation number:  RFA-RM-15-003

The purpose of this FOA is to invite pre-applications from applicants who have an interest in ultimately submitting an application to "Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs (OT2)" (RFA-RM-15-018). The OT1 SPARC OT pre-application is the required first step in the application process for the companion OT2 FOA (RFA-RM-15-018). Potential applicants should read both FOAs. Applicants whose OT1 pre-applications are found to be meritorious and programmatically relevant will be invited to submit a full application to the OT2 "Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs" FOA (RFA-RM-15-018). There will be substantial interaction with NIH Program Staff leading to the development of programmatic and budget elements for an acceptable OT2 application. OT2 applications must include a copy of the Invitation to Submit from the SPARC program as a requirement for submission. The Invitation to Submit an OT2 application is not an indication of any award.
Extracellular Vesicles and Substance Use Disorders (R01)

National Institutes of Health

Contact: John Satterlee, 301/435-1020, satterleej@nida.nih.gov
Solicitation number: PAR-17-250

The purpose of this FOA is to encourage research projects that investigate the interplay between EVs and SUDs. In particular, NIDA is interested in the potential utility of EVs with respect to understanding neuroplastic mechanisms relevant to SUDs or as biomarkers or therapeutics. Proposed projects are expected to meet the following two criteria: 1) the major thrust of the application should involve extracellular vesicles or EV biogenesis machinery; and 2) at least one aim or sub-aim should involve exposure to addictive substances, or analysis of samples from patients with substance use or SUDs. Addictive substances of interest include: nicotine, cocaine, stimulants, opioids, prescription drugs, cannabinoids, or use of multiple substances (including alcohol). Applications focused solely on alcohol exposure should not apply through this FOA. Application budgets need to reflect the actual needs of the proposed project. A project period of up to five years may be requested.

Wearable to Track Recovery and Relapse Factors for People w/ Addiction (R43/R44)

National Institutes of Health

Contact: Samia Noursi, 301/594-5622, Samia.Nousri@nih.gov
Solicitation number: RFA-DA-17-010

The purpose of this FOA is to encourage small businesses (SBCs) to develop next generation wearables and supporting mobile applications to identify digital biomarkers associated with reinitiating drug use and relapse, and create a model for just-in-time intervention. Despite the growing interest in and increased importance of digital biomarkers, the available tools that patients and practitioners have to monitor and intervene are extremely limited. A number of wearable and mobile applications have been approved by the FDA. However, there are no FDA-approved wearables or supporting mobile application which can indicate reinitiating drug use and relapse in a patient with a substance use disorder. The purpose of this initiative is to incentivize small businesses to develop next generation wearables and supporting mobile applications to identify digital biomarkers, and create a model for just-in-time intervention. Digital biomarkers may be early stage or validated. Applications proposing to develop stand-alone mobile applications will not be considered, for instance, mobile applications which rely solely on self-report as a predictive marker for potential drug use or relapse would be non-responsive and would be withdrawn before review. According to statutory guidelines, total funding support (direct costs, indirect costs, fee) normally may not exceed $150K for Phase I awards and $1M for Phase II awards. With appropriate justification from the applicant, Congress will allow awards to exceed these amounts by up to 50% as a hard cap ($225K for Phase I and $1.5M for Phase II). Durations up to 1 year for Phase I and up to 2 years for Phase II may be requested.
Zika Virus (ZIKV) Complications (R21)
National Institutes of Health
Contact: Nahida Chakhtoura, 301/435-6872, nahida.chakhtoura@nih.gov
Solicitation number: PA-17-085
The purpose of this FOA is to provide support for research on Zika virus (ZIKV) and its complications. The R21 activity code is intended to encourage new exploratory and developmental research projects. For example, such projects could assess the feasibility of a novel area of investigation or a new experimental system that has the potential to enhance health-related research. Another example could include the unique and innovative use of an existing methodology to explore a new scientific area. 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. 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. The scope of the project should determine the project period. The maximum period is 2 years.

Inter-organelle Communication in Cancer (R01)
National Institutes of Health
Contact: Michael Espey, 240/276-7619, SP@nih.gov
Solicitation number: PAR-17-203
The purpose of this FOA is to support research projects that examine how inter-organelle communication in cancer cells and/or tumor-associated cells affects cellular function, adaptation, and phenotypic plasticity. Applications that leverage novel tools or technologies that advance resolution, quantification, measurement, and/or manipulation of inter-organelle communication to inform novel cancer biology hypothesis are of high programmatic priority. This emerging area promotes the concept that organelle networks coordinate oncogenic or tumor suppressive pressures that influence cell behaviors. It is anticipated that applicants may propose to use basic model systems or non-human organisms to elucidate mechanistic cancer research questions on inter-organelle communication. While applications may have aims that illustrate translational potential, an emphasis on clinical translation is not a requirement for this FOA. The primary goal of this FOA is to stimulate basic research that will address our knowledge gaps and technical limitations in studying inter-organelle communication and crosstalk in cancer. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.
Exploring Novel RNA Modifications in HIV/AIDS and Substance Use Disorders (R01)

National Institutes of Health


Contact: John Satterlee, 301/432-1020, satterleej@nida.nih.gov

Solicitation number: RFA-DA-18-008

The purpose of this FOA is to encourage research projects that investigate covalent RNA modifications in HIV/AIDS and substance use disorders. Identifying modifications involved in HIV function as well as understanding the mechanisms involved and how these processes interact with chronic drug exposure could lay the foundation for the development of future novel therapeutics to treat HIV in patients with SUDs. Proposed projects MUST include the following three components. Applications which lack any of three components will be considered non-responsive to the FOA and will not be reviewed. A significant component investigating 1. covalent RNA modifications in the HIV RNA genome and/or the host transcriptome and/or 2. proteins that read, write, or erase these modifications. ALL proposed project aims must investigate a high priority research area in HIV/SIV biology (see NOT-OD-15-137), and At least one aim or sub-aim must also involve either 1. opioid, cannabinoid, nicotinic, dopaminergic, or other signaling pathways relevant to substance use, or 2. exposure to addictive substances, or 3. analysis of samples from patients that use addictive substances or have substance use disorders. Addictive substances of interest include: nicotine, cocaine, stimulants, opioids, prescription drugs, cannabinoids, alcohol, or combinations of these drugs. Applications focused solely on alcohol exposure must not be submitted to this FOA. Application budgets are not limited but need to reflect the actual needs of the proposed project. Project periods may not exceed 5 years.

Multi-Site Studies for System-Level Implementation of Substance Use Prevention and Treatment Services (R01)

National Institutes of Health


Contact: Tisha Wiley Ph.D., 301/45-8507, tisha.wiley@nih.gov

Solicitation number: PAR-16-455

As part of the Collaborative Research on Addiction at NIH (CRAN) initiative, NIDA, NIAAA, and NCI join to issue this FOA. The purpose of this FOA is to support the development and testing of interventions, models, and/or frameworks that examine system-level implementation of evidence-based interventions, guidelines, or principles to improve the delivery, uptake, quality, and sustainability of substance use prevention and treatment interventions and services. Application budgets are limited to $500K in direct costs (including consortium F&A) in any project year, and need to reflect the actual needs of the proposed project.

Resource Centers for Minority Aging Research (RCMAR) (P30)

National Institutes of Health


Contact: Lis Nielsen, 301/402-4156, nielsenli@nia.nih.gov

Solicitation number: RFA-AG-18-003

The National Institute on Aging invites applications from qualified institutions for the creation or continuation of Resource Centers for Minority Aging Research (RCMARs). The primary purpose of this FOA is (1) to support centers that will enhance the diversity of the aging research workforce by mentoring promising scientists from under-represented groups for sustained careers in aging research in a selected area of scientific focus, and (2) to develop infrastructure to promote advances in this area and increase the number of researchers focused on the health and well-being of minority elders. RCMARs focus on priority areas of social, behavioral, and economic research on the processes of aging at the individual or societal level. The program supports research at multiple levels from genetics to cross-national comparative research, and at stages from basic through translational, with the goal to improve the health, well-being, function, and independence of older Americans. This new cycle of RCMARs will expand the scientific scope of the program to encourage transdisciplinary social and behavioral science research on any theme addressed in the National Institute on Aging Strategic Plan. Consistent with the longstanding focus of the RCMAR program on minority aging research, all centers are also expected to offer mentoring in health disparities and minority aging issues as a major component of their research education programs, thereby enhancing the potential impact of research supported by the program on all sectors of our aging society. Applicants are encouraged to check the NIA webpage periodically for frequently asked questions about applying to the RCMAR program. NIA expects to fund Centers of different sizes. Application budgets are limited to $500K in direct costs and should reflect the actual needs of the proposed project. The project period is 5
Advancing Exceptional Research on HIV/AIDS and Substance Abuse (R01)

National Institutes of Health

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

Solicitation number: RFA-DA-18-002

This FOA seeks to attract exceptionally talented investigators to conduct innovative, potentially groundbreaking and/or unconventional investigations on HIV/AIDS and substance abuse. Projects may be led by collaborative investigative teams or individual scientists. Awards will support projects, which, if successful, will have a major impact on HIV/AIDS and substance abuse. Examples of studies of relevance to drug abuse include: studies using populations with significant numbers of drug users or samples from drug using populations; studies using in vitro systems and/or animal models that test the effects of drugs of abuse on HIV pathogenesis, progression, or treatment; studies to develop interventions or treatments that are tailored to substance using populations, and studies of novel implementation approaches. Projects may be in any area of research but must be in an area of high priority NIH HIV/AIDS research. This FOA is designed to complement NIDA's existing Avant-Garde Award Program for HIV/AIDS Research and Avenir Award Program for Research on Substance Abuse and HIV/AIDS, which focus on individual researchers and which do not require a detailed research plan. In contrast, this FOA focuses on innovative research projects, and applications to this FOA are expected to have a detailed research plan and preliminary data. However, applications submitted under this FOA should clearly exhibit creativity, innovativeness, and risk. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope proposed should determine the project period. The maximum project period is five years.

Mobile Health: Technology and Outcomes in Low and Middle Income Countries (R21)

National Institutes of Health

Contact: Laura Povlich, 301/827-2227, laura.povlich@nih.gov

Solicitation number: PAR-16-292

The purpose of this FOA is to encourage exploratory/developmental research applications that propose to conduct research to develop or adapt innovative mobile health (mHealth) technology specifically suited for low and middle income countries (LMICs) and determine the health-related outcomes associated with implementation of the technology. Of highest interest are innovative, well-designed multidisciplinary projects that aim to generate generalizable knowledge for the field. The overall goal of the FOA is to contribute to the evidence base for the use of mobile technology to improve clinical outcomes and public health while building research capacity in LMICs and establishing research networks in this area. Applicants are required to propose partnerships between at least one U.S. institution and one LMIC institution and the proposed research plan should strengthen the mHealth research capabilities at the LMIC institution. Applicants may request up to $125K direct costs per year. The total project period may not exceed 2 years.
Food Safety Preventive Controls and Produce Safety Standards: Building Competency in Latin America in Support
National Institutes of Health
Contact: Kristin Wedding, 301/796-1026, kristin.wedding@fda.hhs.gov
Solicitation number: RFA-FD-17-011

Given the importance of the region in exporting human food to the United States, FDA proposes working with a multilateral institution in the region, specifically the Inter-American Institute for Cooperation on Agriculture (IICA), to develop an expert cadre to foster FSMA standards implementation. IICA has been a strong U.S. government partner in Latin America and the Caribbean and can effectively play a pivotal role in FSMA training in the region. The activities undertaken under this Cooperative Agreement would be targeted to training FDA’s regulatory counterparts who commit to doing further training in their respective countries, academia, and industry representatives. By training regulators, IICA would be providing up-to-date information on FDA FSMA requirements, as well as good agricultural practice knowledge. If regulators or appropriate government institutions become trainers of the Alliance curriculum, they could possibly offer the training at lower costs, which can be a prohibitive factor for smaller business entities in understanding and implementing FSMA produce safety standards. Application budgets need to reflect the actual needs of the proposed project and should not exceed the following in total costs (direct and indirect): YR 01: $300,000; YR 02: $400K; YR 03: $400K. The scope of the proposed project should determine the project period. The maximum project period is three (3) years.

Development of Socially-Assistive Robots (SARs) to Engage Persons with Alzheimer's Disease (AD) and AD-Related
National Institutes of Health
Contact: Partha Bhattacharyya, 301/496-3138, bhattacharyyap@mail.nih.gov
Solicitation number: PAR-17-107

The purpose of this Small Business Technology Transfer Research (STTR) FOA is to encourage small businesses and their research partners to develop assistive robotics and related technology that would enhance health and reduce illness and disability in older Americans suffering from Alzheimer’s Disease (AD), AD-related dementias (ADRD), and other comorbidities. In addition, this FOA encourages small businesses and their research partners to develop assistive robotics addressing the needs and conditions of caregivers to older Americans suffering from AD and ADRD. Budgets up to $350,000 total costs per year for Phase I and up to $2,000,000 total costs per year for Phase II may be requested. Phase IIB budgets must be submitted in accordance with participating IC-specific budget limitations described in the current SBIR/STTR Program Descriptions and Research Topics of the NIH. According to statutory guidelines, award periods normally may not exceed 1 year for Phase I and 2 years for Phase II. Applicants are encouraged to propose a project duration period that is reasonable and appropriate for completion of the research project.

Ethical Issues in Research on HIV&AIDS and its Co-morbidities (R01)
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Cance
Contact: Varies with research interest
Solicitation number: PAR-15-274

This FOA invites applications addressing ethical issues relevant to research on HIV and associated co-morbidities, including research with populations living with or at high risk of HIV acquisition. The bioethics projects supported through this FOA should focus on at least one of the following three goals: 1) Development of the empirical knowledge base for human subjects protection and ethical standards in HIV/AIDS research; 2) Development of conceptual bioethics approaches to advance scholarship on difficult ethical challenges in HIV/AIDS research; 3) Supporting the integration of bioethics work with ongoing research in HIV/AIDS The scope of the proposed project should determine the project period. The maximum project period is 5 years.
Role of Myeloid Cells in Persistence and Eradication of HIV-1 Reservoirs from the Brain (R01)
National Institutes of Health
Contact: Jeymohan Joseph, 240/627-3869, jjeymoha@mail.nih.gov
Solicitation number: RFA-MH-18-300
This FOA invites research grant applications studying mechanisms of HIV-1 persistence in myeloid cells and strategies to target this reservoir in the central nervous system. Basic and translational research in domestic and international settings are of interest. Multidisciplinary research teams and collaborative alliances are encouraged but not required. RFA-MH-18-300 uses the R01 grant mechanism while RFA-MH-18-301 uses the R21 mechanism. High risk/high payoff projects that lack preliminary data or utilize existing data may be most appropriate for the R21 mechanism, while applicants with preliminary data may wish to apply using the R01 mechanism. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

NINDS Ruth L. Kirschstein National Research Service Award (NRSA) for Training of Postdoctoral Fellows (F32)
National Institutes of Health
Contact: Stephen Korn Ph.D., 301/496-4188, korns@ninds.nih.gov
Solicitation number: PAR-16-458
The purpose of this award is to support outstanding scientific training of highly promising postdoctoral candidates with outstanding mentors. Candidates are eligible to apply for support from this program from ~12 months prior to the start of the proposed postdoctoral position to within 12 months after starting in postdoctoral position. Based on the early timeframe of eligibility, and the discouragement of inclusion of preliminary data, this NINDS F32 seeks to foster early, goal-directed planning and to encourage applications for bold and/or innovative projects by the candidate that have the potential for significant impact. Applications are expected to incorporate strong training in quantitative reasoning and the quantitative principles of experimental design and analysis. Support by this program is limited to the first 3 years of a candidate's activity in a specific laboratory or research environment, so as to further encourage early fellowship application and timely completion of “mentored training” of the postdoctoral candidate in a single environment. Individuals may receive up to 3 years of aggregate Kirschstein-NRSA support at the postdoctoral level, including any combination of support from institutional training grants (e.g., T32) and an individual fellowship award. For this FOA, support will be provided only during the first 3 years of cumulative postdoctoral experience in any one particular laboratory or research environment.

Minor Use Minor Species Development of Drugs; Research Project Grant (R01)
National Institutes of Health
Contact: Stuart Jeffrey, 240/402-0568, stuart.jeffrey@fda.hhs.gov
Solicitation number: RFA-FD-15-004
This FOA is issued by the Food and Drug Administration (FDA), Center for Veterinary Medicine (CVM), and solicits Research Project (R01) grant applications from institutions or organizations that propose to develop, or support the development of new animal drugs intended for minor use in major species or intended for use in minor species. The FDA is authorized to provide grants only to assist in defraying the costs of qualified safety and effectiveness testing when a grant will either result in or substantially contribute to FDA approval or conditional approval of a new animal drug. Only companies developing drugs for veterinary use or parties working as research partners with such companies are eligible for grants. The maximum award is $150K per year for up to three years.
Countermeasures Against Chemical Threats (CounterACT) Cooperative Research Projects (U01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-16-128

The mission of this program is to develop new and improved therapeutics to treat and/or prevent injuries resulting from exposure to chemical threats. Chemical threats are toxic chemicals that could be used in a terrorist attack or accidentally released from industrial production, storage or shipping. They include traditional chemical warfare agents and toxic industrial chemicals and materials. This FOA requests research applications seeking support for research on the optimization of small molecule or biologic compounds that are excellent candidates for therapeutic development. A previously identified lead compound is required to be eligible for this funding opportunity. In this regard, lead compounds are defined as biologically active compounds or hits where affinity, potency, target selectivity, and preliminary safety have been established. The scope of research supported by this FOA includes development of appropriate human-relevant animal models and generation of in vivo efficacy data consistent with the intended use of the product in humans. It also includes bioanalytical assay development and validation, laboratory-scale and scale-up manufacturing of the product, and non-GLP toxicity and pharmacology studies. The expected direct cost for individual awards is $300K-$500K per year for five years. This FOA runs in parallel with three FOAs of identical scopes; PAR-15-315, PAR-15-146, and PAR-16-129; that utilize the R21 Exploratory/Developmental Grant, the U54 Specialized Center- Cooperative Agreements, and the U01 Research Project – Cooperative Agreement mechanisms, respectively.

8/17/2017 Application

Tobacco Regulatory Science (R01)

National Institutes of Health


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

Solicitation number: RFA-OD-17-007

The purpose of this FOA is to invite R01 applications to support biomedical and behavioral research that will provide scientific data to inform regulation of tobacco products to protect public health. Research Projects must address the research priorities related to the regulatory authority of the Food and Drug Administration (FDA) Center for Tobacco Products (CTP). The awards under this FOA will be administered by NIH using funds that have been made available through FDA CTP and the Family Smoking Prevention and Tobacco Control Act (P.L. 111-31). Research results from this FOA are expected to generate findings and data that are directly relevant in informing the FDA’s regulation of the manufacture, distribution, and marketing of tobacco products to protect public health. Application budgets are limited to $300K in direct costs per year. The scope of the proposed project should determine the project period. The maximum project period is 3 years.

8/18/2017 Application

12/20/2017 Application

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

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


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

Solicitation number: PAR-15-079

This award is designed to foster highly innovative or conceptually creative research related to drug abuse and addiction and how to prevent and treat them. It supports research that is high-risk and potentially high-impact that is underrepresented or not included in NIDA’s current portfolio. The proposed research should: 1) test a highly novel and significant hypothesis for which there are scant precedent or preliminary data and which, if confirmed, would have a substantial impact on current thinking; and/or 2) develop or adapt innovative techniques or methods for addiction research, or that have promising future applicability to drug abuse research. Direct costs are limited to $125K per year for up to two years.
Mental Health Research Dissertation Grant to Enhance Workforce Diversity (R36)

National Institutes of Health


Contact: David Armstrong, 301/443-3534, armstrda@mail.nih.gov

Solicitation number: PAR-15-181

The purpose of this FOA is to enhance the diversity of the mental health research workforce by providing dissertation awards in all research areas within the strategic priorities of the NIMH to individuals from diverse backgrounds underrepresented in biomedical, behavioral, clinical and social sciences research. This two-year award supports the completion of the doctoral research project. The Mental Health Research Dissertation Grant to Enhance Workforce Diversity (R36) allows for budget requests to cover, per year, a salary consistent with the current fiscal year National Research Service Award (NRSA) predoctoral stipend level and up to $15K for additional expenses such as fringe benefits (including health insurance for self and family members), travel to scientific meetings, and dissertation research costs in accordance with institutional policies. The total award project period may not exceed two years, but must be no less than 12 months.

Center of Excellence for Research on Complementary and Integrative Health (P01)

National Institutes of Health


Contact: Partap Khalsa, 301/594-3462, partap.khalsa@nih.gov

Solicitation number: PAR-16-379

The purpose of NCCIH's Centers of Excellence for Research on Complementary and Integrative Health (CERCIH) program is to support synergistic, multidisciplinary, multi-project research programs that have strong potential to significantly advance the mission of NCCIH and address areas of high research priority, as described in its current Strategic Plan [nccih.nih.gov/about/plans]. Basic, mechanistic, and translational approaches are appropriate for the CERCIH, but should not propose clinical trials of efficacy/effectiveness. Studies proposing to use human participants are allowed, and indeed for some complementary health interventions, using human participants may be the only current way to conduct mechanistic studies. Investigators are strongly encouraged to contact NCCIH Scientific/Research staff early in the process to discuss a potential CERCIH application. The discussion could include the choice of funding mechanism, relevance of the topic to NCCIH's strategic plan and research priorities, and the scope and approach of the project. If the requested budget exceeds $500K in direct costs in any grant year, then pre-approval is required, it is expected that most, if not all, applications to this FOA will exceed this $500K threshold, and applicants will need to seek pre-approval to submit an application. Application budgets are not limited, but it is strongly recommended that applicants not request a budget of more than $1.25M in direct costs per year. The scope of the proposed program should determine the project period. The maximum program period is 5 years, and only one competitive renewal is allowed.
Resource Program Grants in Bioinformatics (P41)

This FOA announces the Resource Program Grants in Bioinformatics program supporting the continued operation, enhancement, and dissemination of databases or software tools that are unique, and of major importance to research using animal models of embryonic developmental processes. These grants will support ongoing research, maintenance, and enhancement, of the tool or resource, user training and services, provision of community generated data storage and archiving, and wide dissemination of the tool or resource. To qualify for support, bioinformatics resources software, algorithms, or knowledge resources must be of demonstrable value toward advancing research utilizing animal model systems in the biomedical sciences and must also be of particular importance to those seeking to understand the biological basis of human and animal development and the etiology of structural birth defects. The resources must be sufficiently mature to have verifiable support and utility for users within the developmental biology research community. Applicants are strongly encouraged to consult with the Scientific/Research Contact listed below in Section VII to ensure that the proposed project reflects the objectives of this FOA and the programmatic interests of the NICHD. Requested direct costs cannot exceed $1.75M per year, are expected to range from $500K to no more than $1.75M per year, and need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

Alcohol Research Resource Awards (R24)

This FOA encourages investigator-initiated applications that may be critical to enhancing synergies among existing programs that address the specific mission of NIAAA, as described above. Investigators are encouraged to visit the NIAAA website for additional information about the research mission and high-priority research areas of the NIAAA https://www.niaaa.nih.gov/. The purpose of the Resource-Related Research Projects (R24) grant is to support investigator-initiated research projects that will develop resources to serve biomedical research. A resource is a non-hypothesis-driven activity to provide data, materials, tools, or services that are essential to making timely, high quality, and cost-efficient progress in a field. The resource should be available to any qualified investigator, and should be highly quality controlled, and not duplicate resources available commercially or through other sources. As a first step, potential applicants are highly encouraged to contact the Scientific/Research Contact listed below for clarification on programmatic priorities or other questions related to the submission and review of an application. Application budgets are not limited but need to reflect the actual needs of the proposed project. 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. The total project period for an application submitted in response to this FOA may not exceed 5 years.
**NIA MSTEM: Advancing Diversity in Aging Research through Undergraduate Education (R25)**

National Institutes of Health


Contact: Robin Barr, 301/402-7715, BarrR@mail.nih.gov

Solicitation number: PAR-17-290

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this NIA R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce in aging. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on Research Experiences and Curriculum or Methods Development. Direct costs up to $350K per year may be requested. The scope of the proposed project should determine the project period. The maximum period is five years.

8/26/2017 Letter of Intent

9/26/2017 Application

**Perception and Cognition Research to Inform Cancer Image Interpretation (R01)**

National Institutes of Health


Contact: Todd Horowitz, 240/276-6963, todd.horowitz@nih.gov

Solicitation number: PAR-17-125

The purpose of this FOA is to facilitate research on the perceptual and cognitive processes underlying the performance of cancer image observers in radiology and pathology, in order to improve the accuracy of cancer detection and diagnosis. Specifically, the FOA will bring scientists with expertise in visual perception and cognition together with radiologists, pathologists, nuclear medicine physicians, and other experts in cancer image interpretation. The scientific scope of the PAR will yield insights to improve the accuracy of cancer detection and diagnosis as a result of NCI’s investment in studying the underlying perceptual and cognitive processes. This FOA runs in parallel with an FOA of similar scientific scope, PAR-17-125, which utilizes the Exploratory/Developmental Grant (R21) mechanism. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

8/27/2017 Letter of Intent

9/27/2017 Application

**Food Specific Molecular Profiles and Biomarkers of Food and Nutrient Intake, and Dietary Exposure (R01)**

National Institutes of Health


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

Solicitation number: PAR-15-024

NIH and USDA-NIFA jointly support this FOA and encourage applications from well-qualified and experienced researchers, for addressing the specific gaps on food specific molecular signatures and biomarkers of food and nutrient intake, and dietary exposure over time. The FOA supports both animal and human studies as appropriate. Clinical studies that involve controlled feeding and short term bolus feeding studies involving limited human subjects are appropriate for this purpose. However, large interventional or observational clinical studies will not be supported through this FOA. Applicants may be able to take advantage of ongoing trials that may be able to accommodate some of the feeding studies as part of the larger trial or leverage an already available specimen resource, in responding to this FOA. In addition to supporting scientific research, both NIH and USDA hope to promote collaborative interaction among funded researchers through this effort. Awarded grantees from both agencies, in response to this FOA are required to plan and attend 2-3 workshops during the funded period. Research approaches of interest for this FOA include but are not limited to: (1) Identification and validation of food and nutrient specific metabolic signatures that correlate with nutrient quality and efficacy and nutrient consumption, (2) Identification and validation of molecular signatures of dietary consumption of nutrients over time, including commonly used nutrient supplements, and energy supplements or beverages, (3) Studies that explore the interaction/competition between various nutrients including natural products for their absorption, transport, metabolism and elimination, (4) Studies that explore the interaction/competition between various nutrients and drugs for their absorption, transport, metabolism and elimination, dose response, bioavailability, toxicity, and ADME profiles, (5) Studies that explore natural products/nutrients, microbiota interactions with host physiology and metabolism. The maximum project period is 5 years.
This FOA is to provide support for a resource aimed at the collection, identification, staging, and distribution of conceptual tissues to investigators performing biomedical research on fundamental biological processes and human development at academic and not-for-profit research institutions. Over the years, tissues from this source have been valuable in vaccine development [polio, rubella, varicella, hepatitis A, an experimental Ebola vaccine, etc.], the study of infectious diseases, exploring normal fetal development, and providing insights into birth defects, miscarriage, brain development, gene activation, and fundamental cell processes that may go awry and cause autism and other intellectual and developmental disabilities as well as other conditions in many organ systems. These important tissues may also lead to preventive and therapeutic interventions in repairing damaged tissues or organ function in adult diseases. A reliable resource with experience in the systematic identification and staging of conceptual tissues for distribution to meet the needs of investigators will provide an important service to the biomedical research community. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

The purpose of this FOA is to encourage research on the role of the nervous system in metabolism, homeostasis, remodeling and/or regeneration of the postnatal dental and craniofacial skeletal system (DCS) in health and disease. The objectives are to enhance basic science knowledge about interactions between the peripheral and central nervous systems (PNS/CNS) and the DCS, and facilitate development of strategies to optimize normal function, reduce the impact of disease, and develop capacity to repair and regenerate injured teeth and craniofacial bones. Application budgets are limited to $250K direct costs in any single year. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

The goal of this interagency FOA is to support the development of multiscale models to accelerate biological, biomedical, behavioral, environmental and clinical research. The NIH, ARO, DOE, FDA, NASA, NSF, and ONR recognize that in order to efficiently and effectively address the challenges of understanding multiscale biological and behavioral systems, researchers will need predictive, computational models that encompass multiple biological and behavioral scales. This FOA supports the development of non-standard modeling methods and experimental approaches to facilitate multiscale modeling, and active participation in community-driven activities through the Multiscale Modeling (MSM) Consortium, www.imagwiki.nibib.nih.gov. Budgets are expected to range from $200k to $400k in Total Direct Costs each year, reflecting the actual needs of the proposed project.
NIH Director’s Pioneer Award Program (DP1)
National Institutes of Health
Contact: Ravi Basavappa, 301/435-7204, PioneerAwards@mail.nih.gov
Solicitation number: RFA-RM-17-005
This award complements NIH’s traditional, investigator-initiated grant programs by supporting individual scientists of exceptional creativity who propose pioneering and possibly transforming approaches to addressing major biomedical or behavioral challenges that have the potential to produce an unusually high impact on enhancing health, lengthening life, and reducing illness and disability. To be considered pioneering, the proposed research must reflect substantially different scientific directions from those already being pursued in the investigator’s research program or elsewhere. The NIH Director’s Pioneer Award is a component of the High-Risk, High-Reward Research program of the NIH Common Fund. Awards will be for $700K Direct Costs per year. The project period is 5 years.

Ravi Basavappa, 301/435-7204, PioneerAwards@mail.nih.gov
Contact: RFA-RM-17-005
Solicitation number:
National Institutes of Health
9/1/2017 Application
8/29/2017 Letter of Intent
10/3/2017 Application

Novel Cell Non-autonomous Mechanisms of Aging (R01)
National Institutes of Health
Contact: Max Guo, 301/402-7747, max.guo@nih.gov
Solicitation number: RFA-AG-18-009
The key goal to be achieved under this FOA is the identification and characterization of cell non-autonomous aging signals communicated to other cells and their mechanism of action on target cells and tissues. With this FOA, we aim to better understand what the non-autonomous aging signals are, how they are generated, and how they elicit aging processes upon reaching their target cells. It might also be useful to characterize the mechanisms of release and transport of signals for non-autonomous aging as part of the application. However, signal release and transport should not be a focus of the application. To be responsive to this FOA, applications may include the identification and characterization of these cell non-autonomous aging signals, their communication and interaction with other molecules and cells, their transportation, and their modes of action at their target sites or cells. Applicants are encouraged to collaborate with other researchers to leverage expertise, needed technologies and resources. Studies using human samples, animal models, tissue culture or other in vitro systems such as cultured organoids are all considered appropriate in response to this FOA, as long as the objective of the research is to understand novel cell non-autonomous mechanisms responsible for the communication between different cells or tissues in aging and longevity. Application budgets are limited to $250K in direct costs per year and need to reflect the actual needs of the proposed project. The scope of the project should determine the project period. The maximum project period is 5 years.

Max Guo, 301/402-7747, max.guo@nih.gov
Contact: RFA-AG-18-009
Solicitation number:
National Institutes of Health
9/3/2017 Letter of Intent
10/3/2017 Application

Partnerships for the Development of Vaccines and Immunoprophylactics Targeting Multiple Antimicrobial-Resista
National Institutes of Health
https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-17-017.html
Contact: Michael Schaefer, 240/627-3364, mschaef@niaid.nih.gov
Solicitation number: RFA-AI-17-017
The objective of this FOA is to support milestone-driven projects focused on discovery, the establishment of proof-of-concept for, and/or preclinical development of, lead candidate vaccines or immunoprophylactics against multiple select Gram-negative nosocomial pathogens: CRE, MDR Acinetobacter and MDR Pseudomonas aeruginosa. This initiative seeks to facilitate identification of promising candidates and support preclinical development of established leads. For the purpose of this FOA, “candidate vaccine” is defined as a vaccine or related vaccine product; “candidate immunoprophylactic” is defined as an antibody, antibody cocktail or related antibody product that is efficacious when provided prophylactically; “lead candidate” is defined as a candidate vaccine or immunoprophylactic for which proof-of-concept data have been obtained, and “preclinical development” is defined as all activities beyond lead candidate identification. Budgets for direct costs of up to $750K per year may be requested. Applicants may also request up to an additional $300K in the first year of the award for major equipment to ensure that research objectives can be met and biohazards can be contained, totaling $1.5M direct costs for year 1 only. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

Michael Schaefer, 240/627-3364, mschaef@niaid.nih.gov
https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-17-017.html
Contact: RFA-AI-17-017
Solicitation number:
**Partnerships for Development of Clinically Useful Diagnostics for Antimicrobial-Resistant Bacteria (R01)**

National Institutes of Health


Contact: Maureen Beanan, 240/292-0999, beananm@mail.nih.gov

Solicitation number: RFA-AI-17-014

The objective of this initiative is to support milestone-driven projects focused on the development of clinically informative diagnostic platforms that identify select antimicrobial-resistant bacterial pathogens and determine associated antimicrobial sensitivity and/or resistance. Applications must include a Product Development Strategy and demonstrate substantive investment by at least one industrial participant. The primary goals of the new diagnostics are to improve patient outcomes and facilitate antibacterial stewardship, thereby reducing selective pressure on current therapeutics and preserving their usefulness. A secondary goal of developing the new diagnostics is to facilitate enrollment of appropriate infected patients in future clinical trials. Budgets for direct costs of up to $750K per year may be requested. Applicants may also request up to an additional $300K in the first year of the award for major equipment to ensure that research objectives can be met and biohazards can be contained, totaling $1.05M direct costs.

**Dissemination and Implementation Research in Health (R01)**

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-16-238

Each year, billions of U.S. tax dollars are spent on research and hundreds of billions are spent on service delivery and community health programs. However, relatively little is spent on, or known about, how best to ensure that the lessons learned from research are relevant to, and, inform and improve the quality of health, delivery of services and the utilization and sustainability of evidence-based tools and approaches. The purpose of this FOA is to support innovative approaches to identifying, understanding, and overcoming barriers to the adoption, adaptation, integration, scale-up and sustainability of evidence-based interventions, tools, policies, and guidelines. Conversely, there may be a benefit in understanding circumstances that create a need to “de-implement” or reduce the use of strategies and procedures that are not evidence-based, have been prematurely widely adopted, or are harmful or wasteful. The goals of this FOA are to encourage trans-disciplinary teams of scientists and practice stakeholders to work together to develop and/or test conceptual models of dissemination and implementation that may be applicable across diverse community and practice settings and patient populations, and design studies that will accurately and transparently assess the outcomes of dissemination and implementation efforts. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PAR-16-237 which utilizes the R03 Small Grant Program mechanism, and PAR-16-236, which utilizes the R21 Exploratory/Developmental Grant mechanism.

**Kidney Precision Medicine Project - Technology Development and Validation (R43/R44)**

National Institutes of Health


Contact: Daniel Gossett Ph.D., 301/594-7723, daniel.gossett@nih.gov

Solicitation number: PA-16-452

The purpose of this FOA is to encourage small businesses to address the technological needs of the Kidney Precision Medicine Project (KPMP). The KPMP will obtain and evaluate kidney biopsies from participants with acute kidney injury (AKI) and chronic kidney disease (CKD), create a kidney tissue atlas, define disease subgroups, and identify critical cells, pathways and targets for novel therapies. Proposed technologies are expected to improve the safety of the human kidney biopsy or enhance interrogation of human kidney tissue, thus ensuring that the kidney biopsy yields useful research or clinical information. According to statutory guidelines, total funding support (direct costs, indirect costs, fee) normally may not exceed $150,000 for Phase I awards and $1,000,000 for Phase II awards.
Development and/or Validation of Devices or Electronic Systems to Monitor or Enhance Mind and Body Interventions

National Institutes of Health
Contact: Wen Chen, 301/451-3989, chenw@mail.nih.gov
Solicitation number: PAS-17-022
This Funding Opportunity Announcement (FOA) supports Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) that will develop and/or validate devices or electronic systems that can: 1) monitor biologically- or behaviorally-based processes applicable to mind and body interventions or 2) be used to assist in optimizing the practice or increasing the efficacy of mind and body interventions. The applications should: 1) lead to the development of new technologies, 2) adapt existing innovative technologies, devices and/or electronic systems, 3) repurpose existing devices and electronic systems, or 4) conduct testing of single or combined components of an integrated, long term, automated, wearable monitoring, stimulation device or electronic system in order to monitor or enhance the mechanistic processes or functional outcomes of mind and body interventions. For the purposes of this FOA, mind and body interventions are defined as non-pharmacological approaches that include mind/brain focused interventions (e.g., meditation, hypnosis), body-based approaches (e.g., acupuncture, massage, spinal manipulation/mobilization), or combined mind and body meditative movement approaches (e.g., yoga, tai-chi, qigong). According to statutory guidelines, award periods normally may not exceed 6 months for Phase I and 2 years for Phase II. Applicants are encouraged to propose a project duration period that is reasonable and appropriate for completion of the research project.

9/5/2017 Letter of Intent
10/5/2017 Application

Role of Age-Associated Metabolic Changes in Alzheimer's Disease (AD) (R01)

National Institutes of Health
Contact: Yih-Woei Fridell, 301/496-7847, yih-woei.fridell@nih.gov
Solicitation number: PAR-17-031
This FOA encourages innovative experimental approaches to explore the molecular and cellular bases for age-related change in metabolism that impact the development of Alzheimer's disease (AD). The goal of this initiative is to fund research projects focused on the impact of changes in metabolism that occur with aging and their possible role in AD onset, pathogenesis and progression. Under this overarching goal, the following topics illustrate the areas of research that are encouraged: Cellular and molecular studies to elucidate the impact of insulin dysregulation on the structure and function of the aging brain; Metabolomic, lipidomic and other –omic studies in peripheral tissues aimed at correlating age-related changes in metabolism with disease onset and/or progression in AD patients or appropriate animal models of the disease; Mechanistic studies to identify possible new targets for AD based on changes that occur with aging, in the brain as well as in the periphery: In metabolic control of insulin and glucose signaling, In mitochondrial activity, and In lipid metabolism. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

9/5/2017 Letter of Intent
10/5/2017 Application

Selective Cell and Network Vulnerability in Aging and Alzheimer’s Disease (R01)

National Institutes of Health
Contact: Bradley Wise, 301/496-9350, wiseb@mail.nih.gov
Solicitation number: PAR-17-047
The goal of this FOA is to define and characterize neural cell populations (neurons and glia), neural activity and circuits, structural and functional networks, and brain regions that are vulnerable in brain aging and AD, and the mechanisms underlying such selective vulnerability. Genetic and molecular signatures of different types of neurons and glial cells across the adult lifespan, in AD compared to other dementias of aging, and in different stages of AD will implicate cell processes and pathways mediating selective vulnerability to AD. Defining cell types by physiological measures such as electrophysiology and connectivity and manipulating neural activity in circuits and networks will provide a functional index of selective vulnerability. Applications are encouraged to use new approaches to generate sophisticated data on molecular signatures of brain cells and on structure and function of brain circuits and networks. Understanding the mechanisms underlying selective vulnerability from cells to networks in AD is critical to fully define the disease process and to develop effective therapies. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.
Juvenile Protective Factors and Their Effects on Aging (R01)

National Institutes of Health


Contact: Chhanda Dutta, 301/496-4161, Duttac@mail.nih.gov

Solicitation number: PAR-17-126

The purpose of this FOA is to invite: 1) descriptive studies to identify putative juvenile protective factors, 2) experimental studies to test hypotheses about their effects on aging and 3) translational studies to characterize potential beneficial and adverse effects of maintaining or modulating the level of juvenile protective factors in adult life. Juvenile protective factors (JPFs), intrinsic to an immature organism, help to maintain or enhance certain physiological functions across all or some stages of postnatal development (i.e., segment of the life span between birth and sexual maturity), but diminish or disappear as the organism transitions from one maturational stage to the next. The loss or diminution of JPFs after a given stage of postnatal development or at time of sexual maturity may contribute to the onset of deleterious aging changes (e.g., compromised stem cell function and reparative capacity) across adulthood. This FOA is uniquely focused on animal and clinical studies which involve comparisons between juvenile versus adult states or between stages of postnatal development to identify putative JPFs and their effects on aging. Studies which involve comparisons between young and old adults will not be supported by this FOA. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum period is 5 years.

Biomarkers for Diabetes, Digestive, Kidney and Urologic Diseases Using Biosamples from the NIDDK Repository (R01)

National Institutes of Health

https://grants.nih.gov/grants/guide/pa-files/PAR-17-123.html

Contact: Lisa Spain, 301/451-9871, spainl@niddk.nih.gov

Solicitation number: PAR-17-123

This FOA will provide support for assays (and associated data analysis) of repository-held samples for studies focused on an NIDDK relevant disease. The review of applications to this FOA will consider both access to repository-held samples and funding for assays using the samples. These studies are expected to generate scientific discoveries on disease mechanisms, disease pathogenic processes, disease progression, or clinical responses. Projects that make good use of the associated data from the clinical trials and studies, the original intent of the clinical study and/or trial are highly encouraged. Exploratory studies and discovery research are encouraged especially when samples are not severely limited, the work is justified, and the goal is consistent with the original intent of the clinical research. Requestors should visit the NIDDK Repository (see above for link) and obtain a copy of the corresponding clinical data before submitting an application. Reviewing the study data will allow requestors to make an informed request and help ensure the best use of the samples. Application budgets are limited to $250K direct costs per year and must reflect the actual needs of the proposed project. The maximum project period is 3 years.

Development of Highly Innovative Tools and Technology for Analysis of Single Cells (SBIR) (R43/R44)

National Institutes of Health


Contact: Margaret Grabb, 301/443-3563, mgrabb@mail.nih.gov

Solicitation number:

This FOA encourages applications to develop next-generation technologies and tools to better define cell heterogeneity and organizational rules. The innovative approaches should provide new analytical measures and manipulations of: cellular contents, structure, and activity at the single cell level significantly beyond those currently available. The objectives are to accelerate the development and translation of promising concepts by focusing on overcoming technical challenges, building prototype systems, and generating novel tools toward commercialization. This FOA seeks to support innovative projects that will result in robust tools and approaches widely adoptable and usable by the research community through the marketplace. Toward this end, applications that draw upon diverse expertise from both within and outside (e.g., engineering, physics, chemistry, computation) of biology are of particular interest. To the extent that it is useful in combining different types of expertise, applications with multiple Program Directors/Principal Investigators are encouraged. According to statutory guidelines, total funding support (direct costs, indirect costs, fee) normally may not exceed $150K for Phase I awards and $1M for Phase II awards. Durations up to two years for Phase I and up to three years for Phase II may be requested.
Cancer Tissue Engineering Collaborative: Enabling Biomimetic Tissue-Engineered Technologies for Cancer Research

National Institutes of Health


Contact: Nastaran Kuhn, 240/276-7610, nas.kuhn@nih.gov

Solicitation number: PAR-17-171

The purpose of this FOA is to encourage investigator-initiated research efforts aimed at the development and characterization of state-of-the-art biomimetic tissue-engineered technologies for cancer research. Tissue-engineered in vitro and ex vivo systems that reflect the pathology and physiology of human disease are needed within the existing continuum of cancer models as new tools for studying cancer biology. Complementary implementation of these tools with existing cancer models is envisioned to ultimately lead to advances in cancer prevention, early detection of aggressive cancer, diagnosis and treatment. To date, only a handful of validated, biologically relevant tissue-engineered technologies exist for addressing specific cancer research questions. Recent technological advances in biomimetic tissue-engineered systems for the purposes of regenerative medicine could allow for new, innovative applications to cancer research. This FOA will support multidisciplinary research projects, and the funded investigators will collectively establish and participate in the Cancer Tissue Engineering Collaborative (TEC) Research Program. Funded investigators will also be invited to attend meetings associated with the NCI Physical Sciences-Oncology Network (PS-ON). The Cancer TEC research projects will focus on the development and characterization of in vitro systems using tissue-engineered technologies that mimic tumor biology to elucidate specific cancer phenomena that are otherwise difficult to examine in vivo. This FOA is intended to encourage collaborative, multidisciplinary projects that engage the fields of cancer research with regenerative medicine, tissue engineering, biomaterials, and bioengineering. It is also expected to catalyze the advancement of innovative, well characterized in vitro systems available for cancer research, expand the breadth of these systems to several cancer types, and promote the exploration of cancer phenomena with biomimetic tissue-engineered systems beyond commonly studied areas such as cell migration and angiogenesis. Applicants are encouraged to leverage existing resources, such as in vivo models, imaging techniques, or computational models. Budgets are limited to $400K Direct Costs per year. Application budgets should reflect the actual needs of the proposed project. The maximum project period is 5 years. The scope of the proposed project should determine the project period.

Intensive Longitudinal Analysis of Health Behaviors: Leveraging New Technologies to Understand Health Behaviors

National Institutes of Health


Contact: Dana Wolff-Hughes, 301/496-0979, dana.wolff@nih.gov

Solicitation number: RFA-OD-17-004

This FOA is intended to provide funding to encourage research projects that seek to explain underlying mechanisms and predict health behaviors within individuals over time utilizing intensive longitudinal, within-person protocols that leverage recent advances in mobile and wireless sensor technologies and big data analytics. The research projects will collect and analyze data, disseminate project findings, and work collaboratively with each other and the research coordinating center (supported under RFA-OD-17-005). Application budgets are limited to $500K direct costs per year but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 4 years.
Development of Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R01)

National Institutes of Health


Contact: George Giacoia, 301/496-5589, giacoiag@exchange.nih.gov

Solicitation number: PAR-17-193

This FOA encourages grant applications to address different and complementary research needs for the development and acceptability of pediatric drug formulations in different age groups. Development and testing of novel pediatric drug delivery systems is also part of this initiative. Driven by federal legislation that now requires evaluation of most drugs in children, renewed attention has been focused on the active pharmaceutical ingredients (APIs). Much less attention has been devoted to the excipients that render these formulations feasible, palatable and stable. Many APIs are extremely bitter, which can make the development of palatable formulations extremely difficult. Adult formulations are frequently taste masked by coating the tablet or by producing a capsule formulation, techniques which are generally not useful for young children. Because the primary market for most pharmaceuticals is in the adult population where palatability has not been a major consideration, taste masking techniques have not been well developed. Three broad approaches have been used: 1) to create a barrier between taste receptors and drug (physical coatings, capsules); 2) make chemical or solubility modifications; and 3) to overwhelm the unpleasant taste by adding flavors and sweeteners. A new approach has been the development of bitter blockers based on the biology of taste. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is five years.

Lab to Marketplace: Tools for Brain and Behavioral Research (R43/R44)

National Institutes of Health


Contact: Margaret Grabb, 301/443-3563, mgrabb@mail.nih.gov

Solicitation number: PA-14-250

This FOA encourages the translation of technologies for brain or behavioral research from academic and other non-small business research sectors to the marketplace. Encouraged from Small Business Concerns (SBCs) are Small Business Innovation Research (SBIR) grant applications that propose to further develop, make more robust, and make more user-friendly such technologies in preparation for commercial dissemination. It is expected that this activity will require partnerships and close collaboration between the original developers of these technologies and SBCs, which may be accomplished in any of a number of ways, including the use of multiple program directors/principle investigators.

Complex Technologies and Therapeutics Development for Mental Health Research and Practice (R41/R42)

National Institutes of Health


Contact: Margaret Grabb, 301/443-3563, mgrabb@mail.nih.gov

Solicitation number: PA-14-196

The overarching goal of the Small Business Technology Transfer (STTR) program at the National Institute of Mental Health (NIMH) is to support small businesses to develop technologies that can advance the mission of the Institute, including basic neuroscience research relevant to mental disorders, translational and clinical research of mental disorders, clinical diagnosis or treatment of mental disorders, and dissemination of evidence-based mental health care. This FOA encourages STTR grant applications to support research and development of particular priority research topics - complex technologies that require funding levels and durations beyond those reflected in the standard STTR guidelines. Funding amount varies and durations up to two years for Phase I and up to three years for Phase II may be requested.
Systems Science and Health in the Behavioral and Social Sciences (R01)

National Institutes of Health


Contact: Stephen Marcus, 301/594-7934, marcusst@mail.nih.gov

Solicitation number: PAR-15-048

This FOA is intended to increase the breadth and scope of topics that can be addressed with systems science methodologies. This FOA calls for research projects that are applied and/or basic in nature (including methodological and measurement development), have a human behavioral and/or social science focus, and employ methodologies suited to addressing the complexity inherent in behavioral and social phenomena, referred to as systems science methodologies. Additionally, this FOA seeks to promote interdisciplinary collaboration among health researchers and experts in computational approaches to further the development of modeling- and simulation-based systems science methodologies and their application to important public health challenges. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

From Genomic Association to Causation: A Convergent Neuroscience Approach for Integrating Levels of Analysis to

National Institutes of Health


Contact: Geetha Senthil, 301/402-0754, senthilgs@mail.nih.gov

Solicitation number: PAR-17-252

The overall objective of this FOA is to provide a mechanistic understanding of the key drivers of psychopathology, across disorders and throughout neurodevelopment, by establishing causal and/or probabilistic linkages across contiguous levels of analysis. The projects under this FOA will develop novel methods, theories, and approaches through a CN team framework, bringing together highly synergistic inter/transdisciplinary teams from multiple disciplines including neuroscience, data/computational science, physics, engineering, and mathematics. Additionally, a goal of this program is to advance research in convergent neuroscience (CN) by creating a shared community framework of resources which may be used by the broader research community to further research, as such, a successful team will be expected to have a robust plan for sharing data and other resources. In order to move beyond cataloging statistical associations to defining causation, successful teams will utilize, combine, expand upon, or develop conceptual frameworks and theoretical approaches, and build explanatory computational models that connect contiguous levels of analysis. Such frameworks, theories, and computational explanatory models should be validated through experimental approaches to elucidate biological underpinnings of complex behavioral (including cognitive and affective) outcomes in psychopathology. Applicants are strongly encouraged to link at least three contiguous levels of analysis and base their aims on findings from unbiased genetic or genomic studies (e.g., large-scale genome-wide association studies, rare de novo mutations and structural variations, and tissue-specific or cell-type specific transcriptional and epigenetic profiles). Application budgets may not exceed $500K direct cost annually for all applications combined in a collaborative set and are expected to reflect actual needs of the proposed project. The maximum project period is 5 years.
Initiation of a Mental Health Family Navigator Model to Promote Early Access, Engagement and Coordination of N
National Institutes of Health
Contact: Denise Pintello, 301/451-1481, dpintell@mail.nih.gov
Solicitation number: PAR-17-265
This initiative proposes to develop and test the effectiveness and implementation of a family navigator model, defined as a health care professional or paraprofessional whose role is to deploy a set of strategies designed to rapidly engage youth and families in needed treatment and services, work closely with the family and other involved treatment and service providers to optimize care and monitor the trajectory of mental health symptoms and outcomes over time. Applicants are encouraged to develop and test the navigator model’s ability to promote early access, engagement and coordination of mental health treatment and services for children and adolescents as soon as early symptoms of mental health problems are detected. Of interest are navigator models that coordinate needed care strategies, determine the “personalized match” to the level of needed service amount, frequency and intensity, and harness novel technologies to track and monitor the trajectory of clinical, functional and behavioral progress toward achieving intended services outcomes. Application budgets are limited to $500K direct costs per budget year and should reflect the actual needs of the proposed project. The maximum project period is 5 years; however, applicants are encouraged to limit the proposed project period to 4 years.

Effectiveness Trials for Post-Acute Interventions and Services to Optimize Longer-term Outcomes (R01)
National Institutes of Health
Contact: Adam Haim, 301/435-3593, haima@mail.nih.gov
Solicitation number: PAR-17-272
NIMH seeks applications for research projects to evaluate the effectiveness of therapeutic and service delivery interventions for the post-acute management of mental health conditions affecting youth, adults, and older adults. This FOA encourages clinical trials to establish the effectiveness and test hypotheses regarding moderators, mediators, and mechanisms of action of post-acute phase therapeutic and services interventions that are matched to the stage of illness in terms of both their focus (e.g., consolidating and maintaining gains from initial treatment, managing residual symptoms/impairment, preventing relapse, promoting adherence and appropriate service use) and intensity/burden for promoting optimal longer-term outcomes. Application budgets are not limited but need to reflect the actual needs of the proposed project. Scope of the proposed project should determine the project period. The maximum period is 5 years, however, most awards will be for 3-4 years.

Leveraging Population-based Cancer Registry Data to Study Health Disparities (R01)
National Institutes of Health
Contact: Kathleen Cronin, 240/276-6836, cronink@mail.nih.gov
Solicitation number: PA-17-289
The goal of this FOA is to efficiently use the existing cancer registry infrastructure by augmenting data already collected with additional information needed to understand health disparities among people diagnosed with cancer. Specifically, this FOA will support the study of factors influencing observed health disparities within the framework of population-based cancer registries by the inclusion of data not routinely collected by or linked to the registries. The studies should be hypothesis-driven and multidisciplinary approaches are encouraged. Investigators are encouraged to leverage the data already collected by the registries to investigate the determinates of health disparities. The goal of these analyses will be to understand why disparities in cancer treatment and outcomes persist by identifying factors contributing to disparities and their relative importance. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.
Ethical, Legal and Policy Issues in HIV Research with Key Populations (R01, R21)

National Institutes of Health

Contact:
Solicitation number: PAR-15-328

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

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

Strengthening the HIV Pre-Exposure Prophylaxis (PrEP) Care Continuum through Behavioral, Social, and Implement

National Institutes of Health
https://grants.nih.gov/grants/guide/pa-files/PA-17-104.html

Contact: Michael Stirratt, 240/627-3875, stirrattm@mail.nih.gov
Solicitation number: PA-17-104

This FOA solicits behavioral, social, and implementation science research designed to (a) identify gaps in the HIV pre-exposure prophylaxis (PrEP) care continuum and associated determinants; (b) develop and test interventions to strengthen PrEP delivery, use, and outcomes; and (c) reduce racial/ethnic and age-related disparities in PrEP uptake and use. This FOA uses the R01 grant mechanism while corresponding FOA PA-17-103 uses the R21 mechanism. High risk/high payoff projects that lack preliminary data are appropriate for the R21 mechanism, while applicants with preliminary data who propose longitudinal analyses and/or large scale projects may consider the R01 mechanism. Eligible organizations are higher education institutions. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

HIV-1 infection of the Central Nervous System (R01)

National Institutes of Health
https://grants.nih.gov/grants/guide/pa-files/PA-17-100.html

Contact: Jeymohan Josep, 240/627-3869, jjeymoha@mail.nih.gov
Solicitation number: PA-17-100

This FOA invites research grant applications focused on defining and understanding the pathogenic mechanisms involved in Human Immunodeficiency Virus (HIV)-1 induced CNS dysfunction, but within the context of viral suppression and Antiretroviral therapy (ART). The FOA further supports research to identify therapeutic targets against which treatments may be developed to prevent the neurobehavioral and neurological co-morbidities in HIV-1 infected individuals. Basic and translational research in domestic and international settings are of interest. Multidisciplinary research teams and collaborative alliances are encouraged but not required. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project should determine the project period. The maximum project period is 5 years.
In Vitro and Animal Model Studies on HBV/HIV Co-Infection (R01)

National Institutes of Health


Contact: Chris Lambros, 240/627-3093, clambros@niaid.nih.gov

Solicitation number: PA-17-280

The purpose of this FOA is to: (a) stimulate and accelerate development of novel in vitro and small animal models of HBV/HIV co-infection to accelerate drug discovery/drug development in HBV/HIV co-infection; and (b) stimulate and accelerate a better understanding of the immunopathogenic interactions between HBV and HIV. Applicants are encouraged to contact the Scientific/Research Contacts listed in Section VII of this FOA to discuss areas of interest for particular institutes. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

National Science Foundation (NSF)

Ongoing

NSF-FDA Scholar-in-Residence at FDA

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


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

Solicitation number: NSF 10-533

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

Ongoing

Hydrologic Sciences

National Science Foundation, Geosciences (GEO)


Contact: Thomas Torgersen, 703/292-8549, ttorgers@nsf.gov

Solicitation number: NSF 15-558

This program focuses on the fluxes of water in the environment that constitute the water cycle as well as the mass and energy transport function of the water cycle in the environment. The Program supports studying processes from rainfall to runoff to infiltration and streamflow; evaporation and transpiration; as well as the flow of water in soils and aquifers and the transport of suspended, dissolved and colloidal components. This program retains a strong focus on linking the fluxes of water and the components carried by water across the boundaries between various interacting components of the terrestrial system and the mechanisms by which these fluxes co-organize over a variety of timescales and/or alter the fundamentals of the interacting components. The Program is also interested in how water interacts with the solid phase, the landscape and the ecosystem as well as how such interactions and couplings are altered by land use and climate change. Studies may address aqueous geochemistry and solid phase interactions as well as physical, chemical, and biological processes as coupled to water transport. Regular research awards supported by HS are generally but not exclusively in the range of $250K to $700K and of 2-4 years duration. Hydrologic process synthesis projects should be at a level appropriate to the scope of topic and are expected to be conducted at total levels of <$1M over 3-5 years with an emphasis on support of graduate students and postdocs.
Ceramics (CER)
National Science Foundation, Education and Human Resources (EHR)
Contact:
Solicitation number: NSF 16-597
This program supports fundamental scientific research in ceramics (e.g., oxides, carbides, nitrides and borides), glass-ceramics, inorganic glasses, ceramic-based composites and inorganic carbon-based materials. Projects should be centered on experiments; inclusion of computational and theory components are encouraged. The objective of the program is to increase fundamental understanding and to develop predictive capabilities for relating synthesis, processing, and microstructure of these materials to their properties and ultimate performance in various environments and applications. Research to enhance or enable the discovery or creation of new ceramic materials is welcome. Development of new experimental techniques or novel approaches to carry out projects is encouraged. Topics supported include basic processes and mechanisms associated with nucleation and growth of thin films; bulk crystal growth; phase transformations and equilibria; morphology; surface modification; corrosion, interfaces and grain boundary structure; and defects.

Arctic Research Opportunities
National Science Foundation, Office of Polar Programs
Contact: varies
Solicitation number: NSF 16-595
The goal of this solicitation is to attract research proposals that advance a fundamental, process, and systems-level understanding of the Arctic's rapidly changing natural environment and social and cultural systems, and, where appropriate, to improve our capacity to project future change. The Arctic Sciences Section supports research focused on the Arctic region and its connectivity with lower latitudes. The scientific scope is aligned with, but not limited to, research challenges outlined in the Interagency Arctic Research Policy Committee (https://www.nsf.gov/geo/plr/arctic/iarpc/start.jsp) five-year plans.

Geobiology and Low-Temperature Geochemistry
National Science Foundation, Geosciences (GEO)
Contact: Enriqueta Barrera, 703/292-7780, ebarrera@nsf.gov
Solicitation number: NSF 15-559
This program supports research on: 1) the interactions between biological and geological systems at all scales of space and time; 2) 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.
Sedimentary Geology and Paleobiology (SGP)

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 17-536

Sedimentary Geology and Paleobiology supports innovative research that addresses the deep-time sedimentary crust and advances our understanding of environmental and evolutionary change. The program seeks to fund projects that focus on: (1) the changing aspects of life, ecology, environments, and biogeography in geologic time based on fossil organisms and/or sedimentological data; (2) all aspects of the Earth’s sedimentary lithosphere – insights into the geological processes 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 deep-time (pre-Holocene) sedimentary and biological (fossil) record; and (4) the geologic record of the production, transportation, and deposition of modern and ancient physical and chemical sediments.

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

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


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

Solicitation number: NSF 08-523

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

Geomorphology and Land Use Dynamics

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 15-560

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

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

National Science Foundation


Contact: Vasant Honavar, 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.
Earth Sciences: Instrumentation and Facilities (EAR/IF)

National Science Foundation


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

Solicitation number: NSF 16-609

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

Archaeology Program - Doctoral Dissertation Research Improvement Awards

National Science Foundation


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

Solicitation number: NSF 15-554

The Archaeology Program supports anthropologically relevant archaeological research. This means that the value of the proposed research can be justified within an anthropological context. The Program sets no priorities by either geographic region or time period. It also has no priorities in regard to theoretical orientation or question and it is the responsibility of the applicant to explain convincingly why these are significant and have the potential to contribute to anthropological knowledge. While the Program, in order to encourage innovative research, neither limits nor defines specific categories of research type, most applications either request funds for field research and/or the analysis of archaeological material through multiple approaches. The Program also supports methodological projects which develop analytic techniques of potential archaeological value. Doctoral Dissertation Research Improvement (DDRI) awards may not exceed $20K over the duration of the three-year project period.

Conferences and Workshops in the Mathematical Sciences

National Science Foundation


Contact: Tomek Bartoszynski, 703/292-4885, tbartosz@nsf.gov

Solicitation number: NSF 16-550

The Division of Mathematical Sciences (DMS) has long supported conferences, workshops, and related activities. Examples of related activities include longer-term or larger-scale events such as multi-institutional regional meetings, summer or winter schools, and international travel by groups of mathematical scientists. Proposals for conferences normally request funding in the range of $5K to $25K, though awards of up to $50K have been made on occasion. Proposals for other kinds of conference-like activities may request funding of any amount and for durations of up to three years; in past years, some such awards have fallen in the range of $50K to $150K per year.

Documenting Endangered Languages - Doctoral Dissertation Research Improvement Grants (DEL-DDRIG)

National Science Foundation


Contact: Colleen Fitzgerald, 703-292-4381, cfitzger@nsf.gov

Solicitation number: NSF 16-617

The program supports projects that contribute to data management and archiving, and to the development of the next generation of researchers. Funding can support fieldwork and other activities relevant to the digital recording, documenting, and archiving of endangered languages, including the preparation of lexicons, grammars, text samples, and databases. Funding in this solicitation will be available in the form of doctoral dissertation research improvement grants (DDRIGs) for up to 24 months and this solicitation addresses the preparation and evaluation of proposals for DDRIG awards.

The maximum individual award size is $15,000 in direct costs. Indirect costs are in addition to the maximum direct cost limitation and are subject to the awardee’s current federally negotiated indirect cost rate.
Plant Genome Research Program (PGRP)

The Plant Genome Research Program (PGRP) supports genome-scale research in plant genomics that addresses challenging questions of biological importance and of relevance to society. The Program encourages the development of innovative tools, technologies and resources that push the boundaries of research capabilities and permit the community to answer seemingly intractable and pressing questions on a genome-wide scale. Emphasis is placed on the creativity of the approach and the scale and depth of the question being addressed. Data produced by plant genomics should be usable, accessible, integrated across scales and of high impact across biology. Training and career advancement in plant genomics is featured as an essential element of scientific progress. The PGRP continues to focus on plants of economic importance and biological processes and interactions that will have broad impact on the scientific research community and society in general.

Four funding opportunities are currently available:
1) Genome-scale plant research and/or tool development to address fundamental biological questions in plants of economic importance on a genome-wide scale (RESEARCH-PGR)
2) Plant Transformation Challenge Grants to overcome constraints in plant transformation through breakthrough discoveries (TRANSFORM-PGR)
3) Data Mining Challenge Grants to mine, reuse and unleash new information from available large-scale datasets (MINE-PGR)
4) Career Advancement to build new careers in plant genomics as early career awards (ECA-PGR) or mid-career awards (MCA-PGR).

Contact:
Anne Sylvester, 703/292-4400, dbipgr@nsf.gov

Condensed Matter and Materials Theory (CMMT)

The program supports fundamental research that advances the conceptual understanding of hard and soft materials, and materials-related phenomena; the development of associated analytical, computational, and data-centric techniques; as well as predictive materials-specific theory, simulation, and modeling for materials research. The broad spectrum of research supported in CMMT includes first-principles, quantum many-body, statistical mechanics, classical and quantum Monte Carlo, and molecular dynamics methods. Computational efforts span from workstations to advanced and high-performance scientific computing. Emphasis is on approaches that begin at the smallest appropriate length scale, such as electronic, atomic, molecular, nano-, micro-, and mesoscale, required to yield fundamental insight into material properties, processes, and behavior, to predict new materials and states of matter, and to reveal new materials-related phenomena. Approaches that span multiple scales of length and time may be required to advance fundamental understanding of materials properties and phenomena, particularly for polymeric materials and soft matter.

Daryl Hess, 703/292-4942, dhess@nsf.gov

Enriched Doctoral Training in the Mathematical Sciences (EDT)

The long-range goal of the EDT program is to strengthen the nation's scientific competitiveness by increasing the number of U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences and other professions in which expertise in the mathematical sciences plays an important role. The EDT program will support projects that include training in areas supplementary to the dissertation research theme and that are instrumental for connections with business, industry, government, and the non-profit sector. Projects are expected to train students to work in teams to refine, attack, and solve problems that are open-ended, not initially sharply formulated, and originate outside the academic mathematical realm. Projects should also provide opportunities that allow the students to develop strong oral and written communication skills in an interdisciplinary setting. The maximum award amount is $600K for a three-year award.

Jennifer Pearl, 703/292-4492, jslimowi@nsf.gov
Towards a Leadership-Class Computing Facility - Phase 1 - Limited Submission

National Science Foundation


Contact: Edward Walker, 703/292-4863, edwalker@nsf.gov

Solicitation number: NSF 17-558

NSF invites proposals for the acquisition and deployment of a High Performance Computing (HPC) system, called the Phase 1 system, with the option of a possible future upgrade to a leadership-class computing facility. The Phase 1 system will serve two important and complementary purposes: 1) It will serve as a robust, well-balanced, and forward-looking computational asset for a broad range of research topics for which advances in fundamental understanding require the most extreme computational and data analysis capabilities; and 2) It will serve as an evaluation platform for testing and demonstrating the feasibility of an upgrade to a leadership-class facility five years following deployment. A total of $60M in FY 2018 will be used to fund one award, subject to the availability of funds. At least 95% of the proposal amount should be for the system acquisition cost.

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.

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

National Science Foundation


Contact: Rebecca Ferrrell, 703/292-7850, rferrell@nsf.gov

Solicitation number: NSF 17-506

The Biological Anthropology Program supports multifaceted research to advance scientific knowledge of human biology and ecology, including understanding of our evolutionary history and mechanisms that 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 analysis (e.g., molecular, organismal, population, ecosystem), conducted in field, laboratory, captive, and computational research environments, and often incorporating interactions between human biology and culture.
Faculty Early Career Development Program (CAREER) 2016

National Science Foundation

Contact: Henry Warchall, 703/292-4861, hwarchal@nsf.gov

Solicitation number: NSF 17-537

This program emphasizes the importance the Foundation places on the early development of academic careers dedicated to stimulating the discovery process in which the excitement of research is enhanced by inspired teaching, enthusiastic learning, and disseminating new knowledge. Effective integration of research and education generates a synergy in which the process of discovery stimulates learning, and assures that the findings and methods of research and education are quickly and effectively communicated in a broader context and to a large audience. The CAREER program embodies NSF’s commitment to encourage faculty and academic institutions to value and support the integration of research and education. Successful Principal Investigators will propose creative, effective research and education plans, developed within the context of the mission, goals, and resources of their organizations, while building a firm foundation for a lifetime of contributions to research, education, and their integration. The CAREER award, including indirect costs, is expected to total a minimum of $400K for the 5-year duration, with the following exceptions: Awards for proposals to the Directorate for Biological Sciences (BIO), the Directorate for Engineering (ENG), or the Office of Polar Programs (OPP) are expected to total a minimum of $500K for the 5-year duration. The PECASE award is an honorary award for all NSF recipients and does not provide additional funds. CAREER awards are eligible for supplemental funding as described in the NSF Proposal & Award Policies & Procedures Guide (PAPPG).

Tectonics

National Science Foundation, Geosciences (GEO)

Contact: David Fountain, 703/292-4751, dfountai@nsf.gov

Solicitation number: NSF 17-555

The Tectonics Program supports a broad range of field, laboratory, computational, and theoretical investigations aimed at understanding the deformation of the terrestrial continental lithosphere (i.e. above the lithosphere-asthenosphere boundary). The Program focuses on deformation processes and their tectonic drivers that operate at any depth within the continental lithosphere, on time-scales of decades/centuries (e.g. active tectonics) and longer, and at micro- to plate boundary/orogenic belt length-scales. Anticipated funding is $9.25M, annually. The estimated number of awards is 40 to 50 standard or continuing grants per year.

Geophysics (PH)

National Science Foundation, Geosciences (GEO)

Contact: Robin Reichlin, 703/292-8556, rreichli@nsf.gov

Solicitation number: NSF 17-554

The Geophysics Program supports basic research in the physics of the solid earth to explore its composition, structure, and processes from the Earth’s surface to its’ deepest interior. Laboratory, field, theoretical, and computational studies are supported. Topics include (but are not limited to) seismicity, seismic wave propagation, and the nature and occurrence of geophysical hazards; the Earth’s magnetic, gravity, and electrical fields; the Earth’s thermal structure; and geodynamics. Supported research also includes geophysical studies of active deformation, including geodesy, and theoretical and experimental studies of the properties and behavior of Earth materials.
**Petrology and Geochemistry (CH)**

National Science Foundation


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

Solicitation number: NSF 17-547

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.

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**GeoPrisms Program**

National Science Foundation, Geosciences (GEO)


Contact: Maurice Tivey, 703/292-7710, mtivey@nsf.gov

Solicitation number: NSF 17-549

Geodynamic Processes at Rifting and Subducting Margins Program investigates the coupled geodynamics, earth surface processes, and climate interactions that build and modify continental margins over a wide range of timescales. These interactions cross the shoreline and have applications to margin evolution and dynamics, construction of stratigraphic architecture, accumulation of economic resources, and associated geologic hazards and environmental management. The GeoPRISMS Program includes two broadly integrated science initiatives (Subduction Cycles and Deformation and Rift Initiation and Evolution), linked by five overarching scientific topics and themes, where transformative advances are likely to occur in the decade 2011-2020, and where a focused scientific program could be most effective. These overarching science topics include 1) Origin and evolution of continental crust; 2) Fluids, magmas and their interactions; 3) Climate-surface-tectonics feedbacks; 4) Geochemical cycles; and 5) Plate boundary deformation and geodynamics. Each of the initiatives has identified primary sites for focused investigations, as well as thematic studies that will complement primary site studies.

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**CyberCorps(R): Scholarship for Service (SFS)**

National Science Foundation


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

Solicitation number: NSF 17-556

The CyberCorps(R): Scholarship for Service (SFS) program seeks proposals that address cybersecurity education and workforce development. The Scholarship Track provides funding to award scholarships to students in cybersecurity. The Capacity Track seeks innovative proposals leading to an increase in the ability of the United States higher education enterprise to produce cybersecurity professionals. Proposals are encouraged that contribute to the expansion of existing educational opportunities and resources in cybersecurity and focus on efforts such as research on the teaching and learning of cybersecurity, including research on materials, methods and interventions; curricula recommendations for new courses, degree programs, and educational pathways with plans for wide adoption nationally; teaching and learning effectiveness of cybersecurity curricular programs and courses; integration of cybersecurity topics into computer science, data science, information technology, engineering and other existing degree programs with plans for pervasive adoption; and partnerships between institutions of higher education, government, and relevant employment sectors leading to improved models for the integration of applied research experiences into cybersecurity degree programs.
Opportunities for Promoting Understanding through Synthesis (OPUS)

National Science Foundation


Contact: Maria Gonzalez, 703/292-4659, cstmary@nsf.gov

Solicitation number: NSF 14-559

All four clusters within the Division of Environmental Biology (Population and Community Ecology, Ecosystem Science, Evolutionary Processes, and Systematics and Biodiversity Science) encourage 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.

Long Term Research in Environmental Biology (LTREB)

National Science Foundation, Biological Sciences (BIO)


Contact: Mary Beth Von Holle, 703/292-4974, mvonholl@nsf.gov

Solicitation number: NSF 17-513

This FOA encourages the submission of proposals that generate extended time series of biological and environmental data to address ecological and evolutionary processes and resolve important issues in organismal and environmental biology. Researchers must have collected at least six years of previous data to qualify for funding, and these data must motivate the proposed research. The proposal also must present a cohesive conceptual rationale or framework for ten years of research. Awards are not to exceed $90K per year (direct and indirect costs) and $450K over a five-year effort.

Division of Environmental Biology (CORE programs) (DEB)

National Science Foundation, Biological Sciences (BIO)


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

Solicitation number: NSF 17-512

The Division of Environmental Biology (DEB) 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. Research on organismal origins, functions, relationships, interactions, and evolutionary history may incorporate field, laboratory, or collection-based approaches; observational or manipulative experiments; synthesis activities; as well as theoretical approaches involving analytical, statistical, or computational modeling.
**Long Term Research in Environmental Biology (LTREB)**

National Science Foundation  
Contact: Mary Beth, 703/292-4974, mvonholl@nsf.gov  
Solicitation number: NSF 17-513

The Long Term Research in Environmental Biology (LTREB) Program supports the generation of extended time series of data to address important questions in evolutionary biology, ecology, and ecosystem science. Research areas include, but are not limited to, the effects of natural selection or other evolutionary processes on populations, communities, or ecosystems; the effects of interspecific interactions that vary over time and space; population or community dynamics for organisms that have extended life spans and long turnover times; feedbacks between ecological and evolutionary processes; pools of materials such as nutrients in soils that turn over at intermediate to longer time scales; and external forcing functions such as climatic cycles that operate over long return intervals.

**Division of Integrative Organismal Systems**

National Science Foundation  
Contact: Varies with research interest  
Solicitation number: NSF 17-508

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.

**Competition for the Management and Operation of the National Center for Atmospheric Research - Limited Submi**

National Science Foundation  
Contact: Sarah L. Ruth, 703/292-7594, sruth@nsf.gov  
Solicitation number: NSF 17-550

This FOA is soliciting proposals for the management and operation of the National Center for Atmospheric Research (NCAR). NCAR, an NSF Federally Funded Research and Development Center (FFRDC), is a center of excellence supporting the atmospheric, geospace and broader Earth sciences communities. The managing organization will be responsible for operating and maintaining the NCAR buildings and facilities, developing and incorporating new facilities, planning for future new initiatives, recruiting, developing and retaining a highly competent and diverse workforce, in addition to sustaining an innovative and vigorous program of basic and applied research in support of the atmospheric, geospace and related sciences. NSF expects that the managing organization will promote a culture of excellence in serving the scientific community and will foster an exemplary approach to the development of increased diversity and inclusiveness in STEM education and the geosciences workforce. Anticipated funding amount is $500M.
Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)

National Science Foundation


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

Solicitation number: NSF 17-552

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

Geography and Spatial Sciences Program (GSS)

National Science Foundation


Contact: Thomas Baerwald, 703/292-7301, tbaerwal@nsf.gov

Solicitation number: NSF 14-538

This program sponsors research on the geographic distributions and interactions of human, physical, and biotic systems on the Earth. Investigations are encouraged to propose plans for research about the nature, causes, and consequences of human activity and natural environmental processes across a range of scales. Projects on a variety of topics (both domestic and international) qualify for support if they offer promise of contributing to scholarship by enhancing geographical knowledge, concepts, theories, methods, and their application to societal problems and concerns. GSS encourages projects that explicitly integrate undergraduate and graduate education into the overall research agenda. Regular research awards range from $400K - $600K.

NSF-Simons Research Centers for Mathematics of Complex Biological Systems (MathBioSys)

National Science Foundation


Contact: Mary Ann Horn, 703/292-4879, mhorn@nsf.gov

Solicitation number: NSF 17-560

This program supports basic research in mathematical and biological sciences. Proposals on human health-related research, or clinically motivated projects are not appropriate for this program and will be returned without review. Proposals to establish centers at which sustained collaborations are facilitated between mathematical scientists and biologists to develop novel mathematical, rigorous computational, and statistical approaches to advance fundamental understanding of how and why emergent properties arise in molecular, cellular and organismal systems are welcomed. The MathBioSys Program strongly encourages proposals aimed at developing predictive frameworks for understanding emergent properties or phenotypes. Successful projects are expected to have a cohesive set of goals, and a convincing plan that substantial progress will be made to establish a predictive and causal understanding of emergent properties during a five-year award period for the proposed center. Anticipated Funding Amount: NSF estimates that $15M will be available to support three center awards of five years duration each.
Innovative Technology Experiences for Students and Teachers (ITEST)

National Science Foundation, Education and Human Resources (EHR)


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

Solicitation number: NSF 15-599

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

International Research Experiences for Students (IRES)

National Science Foundation


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

Solicitation number: NSF 12-551

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

Provision of Marine Seismic Capabilities to the U.S. Research Community

National Science Foundation


Contact: Bob Houtman, 703/292-8583, bhoutman@nsf.gov

Solicitation number: NSF 17-563

NSF is seeking proposals that will present a new financial and/or managerial model to provide access to the marine seismic capabilities to meet the expected needs of academic research scientists. Such models must include procedures to ensure compliance with all international, federal, state, and local environmental laws and regulations and safety standards. Additionally, new financial and/or managerial models must have the capacity for year-to-year flexibility. Over a period of five years, OCE anticipates supporting 75-150 science mission days per year, funding permitting. For purposes of this solicitation, science mission days are considered to include both (1) days the vessel is away from the port of departure, including transit, in an operating status in support of scientific missions, and (2) days in port of departure needed to prepare for and complete each specific mission. Maintenance days, days out of service for layup or other reasons, and days to transfer between one region of operations to another are not considered science mission days. Estimated award amount up $50M over the five-year period of performance of the Cooperative Agreement, subject to the availability of funds.
Plant-Biotic Interactions
National Science Foundation

Contact: Michael Mishkind, 703/292-8413, mmishkin@nsf.gov
Solicitation number: NSF 17-551

The program’s scope extends from fundamental mechanisms to translational efforts, with the latter seeking to put into agricultural practice insights gained from basic research on the mechanisms that govern plant biotic interactions. Projects must be strongly justified in terms of fundamental biological processes and/or relevance to agriculture and may be purely fundamental or applied, or include aspects of both perspectives. All types of symbiosis are appropriate, including commensalism, mutualism, parasitism, and host-pathogen interactions. Research may focus on the biology of the plant host, its pathogens, pests or symbionts, interactions among these, or on the function of plant-associated microbiomes. The program welcomes proposals on the dynamics of initiation, transmission, maintenance and outcome of these complex associations, including studies of metabolic interactions, immune recognition and signaling, host-symbiont regulation, reciprocal responses among interacting species and mechanisms associated with self/non-self recognition such as those in pollen-pistil interactions. Explanatory frameworks should include molecular, genomic, metabolic, cellular, network and organismal processes, with projects guided by hypothesis and/or discovery driven experimental approaches. Strictly ecological projects that do not address underlying mechanisms are not appropriate for this program. Quantitative modeling in concert with experimental work is encouraged. Overall, the program seeks to support research that will deepen our understanding of the fundamental processes that mediate interactions between plants and the organisms with which they intimately associate and advance the application of that knowledge to benefit agriculture. Although there are no formal upper or lower limits to award amounts, they typically range from $50K to $300K per year, with durations of two to four years (and five years for CAREER awards).

Geography and Spatial Sciences Program (GSS)
National Science Foundation

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

As specified in the Geography and Spatial Sciences Program strategic plan, the goals of the NSF Geography and Spatial Sciences (GSS) Program are: 1) To promote scientific research in geography and the spatial sciences that advances theory and basic understanding and that addresses the challenges facing society; 2) To promote the integration of geographers and spatial scientists in interdisciplinary research; 3) To promote education and training of geographers and spatial scientists in order to enhance the capabilities of current and future generations of researchers; and 4) To promote the development and use of scientific methods and tools for geographic research. The Geography and Spatial Sciences Program sponsors research on the geographic distributions and interactions of human, physical, and biotic systems on Earth. Investigators are encouraged to propose plans for research about the nature, causes, and consequences of human activity and natural environmental processes across a range of scales. Projects on a variety of topics qualify for support if they offer promise of contributing to scholarship by enhancing geographical knowledge, concepts, theories, methods, and their application to societal problems and concerns. Regular research awards supported by GSS generally range from between $40K to $400K.

Advances in Biological Informatics (ABI)
National Science Foundation, Biological Sciences (BIO)

Contact: Anne Maglia, 703/292-8470, dbiabi@nsf.gov
Solicitation number: NSF 15-582

The ABI program seeks to encourage new approaches to the analysis and dissemination of biological knowledge for the benefit of both the scientific community and the broader public. This program is especially interested in the development of informatics tools and resources that have the potential to advance or transform research in biology. The ABI program accepts three major types of proposals: Innovation awards that seek to pioneer new approaches to the application of informatics to biological problems; Development awards that seek to provide robust cyberinfrastructure that will enable transformative biological research; and Sustaining awards that seek to support ongoing operations and maintenance of existing cyberinfrastructure that is critical for continued advancement of priority biological research. Approximately $12-15M is available for new awards and and estimated 20 to 30 awards will be granted.
Science of Science and Innovation Policy Doctoral Dissertation Research Improvement Grants (SciSIP-DDRIG)

National Science Foundation


Contact: Maryann Feldman, 703/292-8854, mfeldman@nsf.gov

Solicitation number: NSF 15-583

This program supports research designed to advance the scientific basis of science and innovation policy. Research funded by the program thus develops, improves and expands models, analytical tools, data and metrics that can be applied in the science policy decision making process. Among the many research topics supported are: 1) examinations of the ways in which the contexts, structures and processes of science and engineering research are affected by policy decision, 2) the evaluation of the tangible and intangible returns from investments in science and from investments in research and development, 3) the study of structures and processes that facilitate the development of usable knowledge, theories of creative processes and their transformation into social and economic outcomes, 4) the collection, analysis and visualization of new data describing the scientific and engineering enterprise. The maximum award amount is $20K.

Other Federal

7/31/2017 Application

Partnering to Accelerate Entrepreneurship

United States Agency for International Development (USAID)

https://www.grants.gov/web/grants/view-opportunity.html?oppId=293461

Contact: Ken Lee, kenlee@usaid.gov

Solicitation number: APS-OAA-16-000001-ADDENDUM-PACE

Through this announcement, USAID invites intermediaries or financial organizations to submit ideas for partnering and co-investing with USAID on PACE along with an identified private sector resource partner(s). USAID is focused on building partnerships that address the following objective: Identify and test innovative investment models that have the potential to be sustained, replicated, or scaled which provide private or blended financing to entrepreneurs in the developing world. Models will focus on facilitating investments that are typically in the range of $25K - $250K; however, the goal is to address the “missing middle” or SGBs with higher actual or perceived risk profiles in the sector or geographic area the model serves. USAID is interested in models that invest in both for profit traditional and social enterprises; however, the development impact and additionality of USAID’s funding must be clear. USAID intends to make awards, with funding for individual partnership proposals estimated in the range of $1M to $2M under this solicitation.

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 seeks to foster sustainable communities by making grants in the areas of: Sustainable Environments, with the goal of overhauling the country’s low performing infrastructure, much of it outdated and crumbling, with a new approach that will foster healthier, sustainable, and just communities; Strong Local Economies, with the objective supporting the development of robust and sustainable economies that include a diversity of businesses and access to quality jobs; and Thriving Cultures, with the purpose of supporting efforts to encourage teens to explore the arts, involve artists in community development projects and foster the growth and success of local artists as economic engines and agents for social change. Organizations are eligible for a maximum of three consecutive years of funding. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Smith Richardson Foundation Grants
Smith Richardson Foundation
https://fdo.foundationcenter.org/grantmaker-profile?collection=grantmakers&key=RICH009
Contact: Varies with research interest
Solicitation number:
The two principal grant-making programs are: the International Security and Foreign Policy Program, with the objective of assisting the U.S. policy community in developing effective national security strategies and foreign policies, and the Domestic Public Policy Program, which supports projects that will help the public and policy makers understand and address critical challenges facing the United States. Requests for grants of $50K or less are reviewed on an ongoing basis. Requests for grants greater than $50K and for multi-year grant support are made at regular board meetings. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

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

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

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

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

Public Welfare Grants

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

Committee for Research and Exploration Grant

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

FSSS Grants-in-Aid Program

The Foundation for the Scientific Study of Sexuality (FSSS) offers grants for 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.
Energy Foundation Grants
The Energy Foundation
http://www.ef.org/apply-for-a-grant/
Contact: 415/561-6700, energyfund@ef.org

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

Lumina Grants
Lumina Foundation
http://www.luminafoundation.org/grants.html
Contact: Candace Brandt, 317/951-5300

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

Lannan Foundation Grants
Lannan Foundation
http://www.lannan.org/lf/about/grant-guidelines/
Contact: 505/986-8160, info@lannan.org

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

Mathers Grants
The G. Harold & Leila Y. Mathers Charitable Foundation
http://www.mathersfoundation.org/policies.html
Contact: 914/242-0465, admin@mathersfoundation.org

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

Contact: conservationtrust@ngs.org

Solicitation number:

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

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

Contact: 212/517-5400, grantapplication@pkf.org

Solicitation number:

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

Funding for Readings and Workshops
Poets and Writers
http://www.pw.org/content/funding_readingsworkshops

Contact: 310/481-7195

Solicitation number:

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

Mott Foundation Grants
The Charles Stewart Mott Foundation
http://www.mott.org/grantseeker.aspx

Contact:

Solicitation number:

The Charles Stewart Mott Foundation supports efforts in civil society, the environment, and pathways out of poverty. The median grant size is in the $100K range. The majority of grants are between $15K and $250K annually. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Swiss International Short Visits
Swiss National Science Foundation
Contact: international@snf.ch
Solicitation number:
The International Short Visits of the SNSF allow for researchers working in Switzerland to go abroad or for researchers from elsewhere to come to Switzerland. The visits can last between one week and three months and are limited to one person (the visiting fellow) going to one institute (the host institute). Both the visiting fellow and one person from the host institute (the host) are co-applicants of the proposal. The SNSF pays lump sums contributing solely to travel (one round trip) and living expenses of the visiting fellow. The submission of an application is possible at any time, but must be deposited at least two months before the grant is due to start.

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

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

Documentary Film Program
Sundance Institute
http://www.sundance.org/programs/documentary-film/
Contact: dfp@sundance.org
Solicitation number:
The Sundance Documentary Fund provides grants to filmmakers worldwide for projects that display: artful film language, effective storytelling, originality and feasibility, contemporary cultural relevance, and potential to reach and connect with its intended audience. Preference is given to projects that convey clear story structure, higher stakes and contemporary relevance, forward going action or questions, demonstrated access to subjects, and quality use of film craft.
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)

Ongoing

Oak Ridge Institute for Science and Education (ORISE)

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

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

Solicitation number:

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

Humanities Research Projects

Ongoing

Gerda Hengel Foundation

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

Contact:

Solicitation number:

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

Solicitation number:
The Foundation makes targeted grants for work in all major areas of the social sciences, including anthropology, area studies, economics, political science, psychology, sociology, and urban studies, as well as newer areas such as evaluation research. Preference is given to projects that address contemporary issues in the social sciences and issues of policy relevance. Candidates may propose new projects or they may solicit support for research in progress, including final work on a dissertation, supplementing research funds for a work in progress, or travel funds. Grants reach up to $7.5K. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Practitioner Bellagio Residency
Rockefeller Foundation
http://www.rockefellerfoundation.org/bellagio-center/residency-program/practitioner-residency
Contact: 212/869-8500

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

Open Society Fellowship
Open Society Foundations
http://www.opensocietyfoundations.org/grants/open-society-fellowship
Contact: OSFellows@opensocietyfoundations.org

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

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

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

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

Secure and Private Internet of Things
CISCO
http://research.cisco.com/research - rfp-201604
Contact: research@cisco.com
Solicitation number: RFP-16-04
The security of IoT has not kept pace with the fast innovation and deployment of solutions creating significant safety and economic risks. The growing number of IoT devices, systems, and services increases the attack surface making the solutions more vulnerable to cyber-attacks. Recent Distributed Denial of Service (DDoS) attacks against Internet service providers and commercial entities were carried out by a diverse network of botnets made up of compromised set-top devices and other consumer products. Therefore, assuring the security of each component within an IoT solution is crucial in keeping malicious actors from using it in an unauthorized manner. A fully functional IoT architecture includes edge devices, services, transport protocols, and analytics capabilities. This complexity introduces huge challenges in keeping IoT secure while maintaining data privacy and protecting the interests of the user and solution provider. The existing approaches to secure IoT have proven to be insufficient for these new complex architectures. This RFP requests researchers to propose innovative approaches to address issues like those listed. Cisco expects results to be published in a timely manner, and made available freely to the community without licenses, royalties, or other encumbrances. Cisco will keep this RFP open until a position has been filled.

Robust and Transparent Cryptography
CISCO
http://research.cisco.com/research - rfp-201698
Contact: research@cisco.com
Solicitation number: RFP-16-98
Cryptography is essential for information security, but existing cryptosystems do not always provide us with the protections that we need, and those cryptosystems will need to be adapted to meet emerging challenges. Research is need to drive improvements in several areas: robustness, postquantum security, suitability for the Internet of Things, and transparency to the user regarding the correctness and faithfulness of those systems. This call for research requests innovative and forward looking approaches to meeting the needs of robustness, transparency, postquantum security, and IoT. We are especially interested in research that addresses more than one of these areas, or that considers the broader system and context in which implementations of cryptography are used. This RFP will remain open until a position is filled.
PHD Scholarships
Gerda Hengel Foundation
http://www.gerda-henkel-stiftung.de/phd-scholarships
Contact: Anna Kuschmann, kuschmann@gerda-henkel-stiftung.de
Solicitation number:
The aim of this scholarship programme is to support highly qualified young scholars. The Foundation will only consider applicants who have proven their exceptional talents by means of their achievements in their studies and the results of their examinations and whose dissertations are expected to be well above the average. The duration and course of the studies, final grade, age and any special qualifications will play a significant role in the selection process. Only applicants who are not older than 28 years at the time of concluding their master studies may be included in the selection process. For an application to be considered in the selection process the overall master grade awarded must be at least 1.5 or above in Germany (comparable with grade A in other countries). Foreign degrees will be reviewed separately in the Foundation’s office. The final grade achieved in legal exams also will likewise be assessed separately. Duration is 2 years and monthly scholarship award is 1,400 euros.

Evidence for Action: Investigator-Initiated Research to Build a Culture of Health
Robert Wood Johnson Foundation
Contact: Erin Hagan, evidenceforaction@ucsf.edu
Solicitation number:
Evidence for Action (E4A), a national program of the Robert Wood Johnson Foundation, funds research that expands the evidence base needed to build a Culture of Health. Our mission is to support rigorously designed quantitative, qualitative, and mixed methods research that yields convincing findings regarding the population health, well-being, and equity impacts of specific policies, programs and partnerships. We are especially interested in research examining the health impacts of programmatic or policy interventions that address factors outside the domain of health care services or public health practice. There is not an explicit range for allowable budget requests. You should request the amount of funding you will need to complete your proposed research project – including both direct and indirect costs for the entire duration of your study. Grant periods may be for durations of up to 36 months.

Forward Promise: Empowerment Projects
Robert Wood Johnson Foundation
Contact: 215/573-8558, info@forwardpromise.org
Solicitation number:
Forward Promise aims to promote opportunities for boys and young men of color (BYMOC) to heal, grow, and thrive in the face of chronic stress and trauma. Empowerment Projects seek to strengthen organizations that provide culturally relevant healing responses to trauma, and can partner with the youth-serving systems that touch BYMOC to advance new practices to prevent further traumatization. In doing so, it is important that the organizations use the stories of BYMOC’s resilience and healing to promote and inform their work, and that BYMOC themselves are the ones telling those stories. Forward Promise seeks to elevate the promising practices of Empowerment Projects grantees to advance a greater understanding of what it means for BYMOC to heal, grow, and thrive. Equipped with this understanding, we hope that other youth-serving organizations and systems can then identify and modify their policies and practices that, intentionally or not, serve as barriers to the health and success of BYMOC. Up to six grants of up to $450,000 per grantee will be awarded, and up to three grants of up to $150,000 per grantee will be awarded. Award size consideration will be determined by the applicant’s administrative and financial capacity as described in the following section. Grant duration will be two years.
Strategy and Policy Fellows Program
Smith Richardson Foundation
https://www.srf.org/programs/international-security-foreign-policy/strategy-policy-fellows-program/

Contact: strategyfellows@srf.org

Solicitation number:
The Smith Richardson Foundation sponsors an annual Strategy and Policy Fellows grant competition to support young scholars and policy thinkers on American foreign policy, international relations, international security, military policy, and diplomatic and military history. The purpose of the program is to strengthen the U.S. community of scholars and researchers conducting policy analysis in these fields. The Foundation will award at least three research grants of $60K each to enable the recipients to research and write a book. Within the academic community, this program supports junior or adjunct faculty, research associates, and post-docs who are engaged in policy-relevant research and writing. Within the think tank community, the program supports members of the rising generation of policy thinkers who are focused on U.S. strategic and foreign policy issues. Please note that the Fellowship program will only consider single-author book projects. It will not consider collaborative projects (e.g., edited or multi-authored books, conference volumes or reports, or a collection of previously published articles).

Understanding Dynamic and Multi-scale Systems
James S. McDonnell Foundation
https://www.jsmf.org/apply/fellowship/

Contact: info@jsmf.org

Solicitation number:
This program supports scholarship and research directed toward the development of theoretical and mathematical tools contributing to the science of complex, adaptive, nonlinear systems. While the program’s emphasis is on the development and application of the theory and tools used in the study of complex research questions and not on particular fields of research per se, JSMF is particularly interested in the continued development of complex systems science, and in projects attempting to apply complex systems approaches to coherently articulated questions. Students completing doctoral training, desiring to continue gaining experience in a multi-disciplinary field such as complex systems science, benefit from postdoctoral training providing an opportunity to broaden research experience and acquire additional skills prior to pursuing a career in academia or elsewhere. The total amount of the JSMF Fellowship is $200K to be expended in no less than 2 and no more than 3 years.

Exploratory Research Grants
Hagley Museum and Library
http://www.hagley.org/research/grants-fellowships

Contact: Carol Lockman, clockman@hagley.org

Solicitation number:
These grants support one-week visits by scholars who believe that their project will benefit from Hagley research collections, but need the opportunity to explore them on-site to determine if a Henry Belin du Pont research grant application is warranted. Priority will be given to junior scholars with innovative projects that seek to expand on existing scholarship. Proposals must demonstrate which Hagley collections might be pertinent to the project. Applicants should reside more than 50 miles from Hagley, and the stipend is $400. Low-cost accommodations on Hagley’s grounds are available on first-come, first serve basis. Researchers who use this housing are strongly encouraged to have a car available for transportation during their residency.
Henry Belin du Pont Research Grants

Hagley Museum and Library

http://www.hagley.org/research/grants-fellowships

Contact: Carol Lockman, clockman@hagley.org

These grants enable scholars to pursue advanced research and study in the library, archival, pictorial, and artifact collections of the Hagley Museum and Library. They are intended to support serious scholarly work that makes use of Hagley’s research collections and expands on prior scholarship. Application materials should explain the research project’s focus, methodology, engagement with existing scholarship, and the intended product, as well as Hagley collection(s) to be used during the proposed grant residency. Research grants are awarded for the length of time needed to make use of Hagley collections for a specific project. The stipends are for a maximum of eight weeks and are pro-rated at $400/week for recipients who reside more than 50 miles from Hagley, and $200/week for those within 50 miles.

7/6/2017 Full Proposal

2017 W.T. Grant Scholars Program - Limited Submission

W.T. Grant Foundation

http://wtgrantfoundation.org/grants/william-t-grant-scholars-program

Contact:

Solicitation number:

The William T. Grant Scholars Program supports career development for promising early-career researchers. The program funds five-year research and mentoring plans that significantly expand junior researchers’ expertise in new disciplines, methods, and content areas. We recognize that early-career researchers are rarely given incentives or support to take such risks, so this award includes a mentoring component, as well as an emphasis on community and collaboration. Scholars Program applicants should have a track record of conducting high-quality research and an interest in pursuing a significant shift in their trajectories as researchers. Proposed research plans must address questions of policy and practice that are relevant to the Foundation’s focus areas.

7/14/2017 Pre-Proposal

11/15/2017 Full Proposal (by invitation)

Investigators in the Pathogenesis of Infectious Disease

Burroughs Wellcome Fund


Contact: Victoria McGovern, 919/991-5112, vmcgovern@bwfund.org

Solicitation number:

The Investigators in the Pathogenesis of Infectious Disease program provides opportunities for assistant professors to bring multidisciplinary approaches to the study of human infectious diseases. The goal of the program is to provide opportunities for accomplished investigators still early in their careers to study what happens at the points where the systems of humans and potentially infectious agents connect. The program supports research that sheds light on the fundamentals that affect the outcomes of these encounters: how colonization, infection, commensalism, and other relationships play out at levels ranging from molecular interactions to systemic ones. The Investigators in the Pathogenesis of Infectious Disease award provides $500K over five years to support accomplished investigators at the assistant professor level to study pathogenesis, with a focus on the interplay between human and microbial biology, shedding light on how human and microbial systems are affected by their encounters.
Kluge Fellowships
Library of Congress
http://www.loc.gov/loc/kluge/fellowships/kluge.php
Contact: scholarly@loc.gov

Solicitation number:
The John W. Kluge Center at the Library of Congress invites qualified scholars to conduct research at the Kluge Center using the Library of Congress collections and resources for a period of four to eleven months. The Kluge Center furnishes attractive work and discussion space for Kluge Chair holders, for distinguished visiting scholars, and for post-doctoral Fellows supported by other private foundation gifts. Residents have easy access to the Library's specialized staff and to the intellectual community of Washington. The Kluge Center especially encourages humanistic and social science research that makes use of the Library's large and varied collections. Interdisciplinary, cross-cultural, or multi-lingual research is particularly welcome. Among the collections available to researchers are the world’s largest law library and outstanding multi-lingual collections of books and periodicals. Deep special collections of manuscripts, maps, music, films, recorded sound, prints and photographs are also available. Fellowships are tenable for periods from four to eleven months at a stipend of $4,200 per month for residential research at the Library of Congress.

2017 Congenital Heart Defect Research Grants
Saving Tiny Hearts Society
http://savingtinyhearts.org/research/
Contact: Larry Kluge, 847/780-4869, larryk@savingtinyhearts.org

Solicitation number:
The Saving tiny Hearts Society awards research grants to early stage science with unique hypotheses fostering the next generation of congenital heart defect research creating a strong foundation of preliminary evidence to make scientific advancements. While there is not a set limit to the amount of funds a single project may apply or receive in a calendar year, in general, it is the preference of the StHS to limit funding to $75K per year.

Ataxia Research Grants
National Ataxia Foundation
http://www.ataxia.org/research/ataxia-research-grants.aspx
Contact: Sue Hagen, 763/553-0020, susan@ataxia.org

Solicitation number:
The National Ataxia Foundation (NAF) is committed to funding the best science relevant to hereditary and sporadic types of ataxia in both basic and translational research. Funding for Ataxia-Telangiectasia research proposals will receive a lower priority unless they lend themselves to an overall better understanding of the ataxia disease process. A Letter of Intent is REQUIRED prior to submitting any research grant applications by the deadlines listed below. One-year seed money grants of up to $15K but promising proposals up to a maximum of $30K will be considered for early or pilot phases of studies and ongoing investigations.

Research in Nanomanufacturing Materials and Processes
Semiconductor Research Corporation
https://www.src.org/compete/grc/201710/
Contact: Kwok Ng, 919/941-9417

Solicitation number:
Semiconductor Research Corp. (SRC) Global Research Collaboration (GRC) is soliciting white papers in the research program of Nanomanufacturing Materials and Processes. The principal goals of this program are to advance fundamental knowledge and innovations in the nanomanufacturing of semiconductors. The anticipated funding level per task is expected to be in the range of $80K to $100K per year, which includes the overhead expenses charged by the institution. Proposals offering funding leverage are strongly encouraged and should be indicated. (Leverage is other funding resources related and beneficial to the proposed work.) Our research needs generally fall into the following five categories: Patterning, Frond-End Processes, Back-End Processes, Common areas, and ESH (Environment, Safety, and Health)
Artists-in-Residence Program
Yaddo

http://yaddo.org/yaddo/ApplicationGuidelines.shtml

Contact: 518/584-0746

Solicitation number:

Yaddo offers residencies to professional creative artists from all nations and backgrounds working in one or more of the following media: choreography, film, literature, musical composition, painting, performance art, photography, printmaking, sculpture, and video. Applications for residency are judged on the quality of the artist’s work and professional promise. Yaddo accepts approximately 200 artists each year. Residencies vary in length – the average stay is five weeks. The minimum stay is two weeks; the maximum is eight weeks. 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.

Postdoctoral Program in Environmental Chemistry
The Camille and Henry Dreyfus Foundation

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

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

Solicitation number:

The Camille and Henry Dreyfus Foundation seeks to further the development of scientific leadership in the field of environmental chemistry with a postdoctoral fellowship program. The Postdoctoral Program in Environmental Chemistry provides a well-established principal investigator with an award of $120K over two years to appoint a Postdoctoral Fellow in environmental chemistry. Applications are accepted from principal investigators that have well-established research efforts in environmental science or engineering. Applications most likely to be of interest should describe innovative fundamental research in the chemical sciences or engineering related to the environment. 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.

Grants (Catalogues for Contemporary Art Exhibitions and Projects)
Elizabeth Firestone Graham Foundation

http://efgfoundation.com/guidelines.html

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

Solicitation number:

Funding from the Elizabeth Firestone Graham Foundation is currently available to support direct costs for catalogues and other publications accompanying contemporary art exhibitions and projects, especially those supporting emerging and under-recognized artists, and produced by organizations outside the nation’s cultural centers. Limited funds are also available for publications related to the grantee organization and its programs or collections. The Foundation does not provide grants for individuals, general operating expenses, capital campaigns, endowment funds, or projects solely featuring the work of deceased artists. One-time special projects that are originated by the applying organization are preferred. To be considered, project dates must fall within one year of the funding cycle in which the organization is requesting funds. The Foundation is unlikely to provide grants exceeding one third of the proposed publication budget. Grant amounts typically range from $5K to $15K. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
The Harry Frank Guggenheim Foundation Research Grants
The Harry Frank Guggenheim Foundation
http://www.hfg.org/rg/guidelines.htm
Contact: 646/428-0971, info@hfg.org

Solicitation number:
The foundation welcomes proposals from any of the natural and social sciences and the humanities that promise to increase understanding of the causes, manifestations, and control of violence and aggression. Highest priority is given to research that can increase understanding and amelioration of urgent problems of violence and aggression in the modern world. Questions that interest the foundation concern violence and aggression in relation to social change, intergroup conflict, war, terrorism, crime, and family relationships, among other subjects. Research with no relevance to understanding human problems will not be supported, nor will proposals to investigate urgent social problems where the foundation cannot be assured that useful, sound research can be done. Priority will also be given to areas and methodologies not receiving adequate attention and support from other funding sources. Most awards fall within the range of $15K to $40K per year for periods of one or two years.

United Engineering Foundation Grants Program
United Engineering Foundation
https://www.uefoundation.org/uef-grants-program/
Contact: Grants@unitedengineeringfnd.org

Solicitation number:
The United Engineering Foundation advances the engineering arts and sciences for the welfare of humanity. It supports engineering and education by, among other means, making grants. Grants should be consistent with advancing engineering. Broad-based, interdisciplinary proposals that further the engineering profession as a whole are preferred. Multiple-year proposals are welcome, but funding is awarded for a single year only. Proposals for subsequent years follow procedures identical to that of single-year proposals. No commitment for funding of subsequent years of a multiple-year project should be inferred from funding of a prior year. Projects that are outside “business as usual” of the proposing organization are preferred. Technical research proposals and proposals by individuals are seldom accepted. Funding amount varies.

Physical Therapy Research Grant
Foundation for Physical Therapy
Contact: foundation4pt@aibs.org

Solicitation number:
The purpose of FPT’s research grant program is to fund research studies in specified areas initiated by emerging investigators. Specific eligibility requirements and criteria for review and selection are contained in these guidelines. FPT defines “emerging investigator” as one who has not previously acquired a substantive extramural research award as an independent principal investigator (e.g. National Institutes of Health [NIH] R01, Veterans Administration Merit Award, National Institutes of Disability and Rehabilitation Research Field-Initiated Project). Maximum FRG amount is $40K. A proposed project may have a Period of Performance of 1 or 2 years.
Beckman Young Investigators Program Information
Arnold and Mabel Beckman Foundation
http://www.beckman-foundation.org/programs/beckman-young-investigators-program-information
Contact: Nicole Patras, 949/721-2245, BYI@beckman-foundation.org
Solicitation number:
The Beckman Young Investigator (BYI) Program provides research support to the most promising young faculty members in the early stages of their academic careers in the chemical and life sciences, particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science. Projects proposed for the BYI program should be truly innovative, high-risk, and show promise for contributing to significant advances in chemistry and the life sciences. They should represent a departure from current research directions rather than an extension or expansion of existing programs. Proposed research that cuts across traditional boundaries of scientific disciplines is encouraged. Proposals that open new avenues of research in chemistry and life sciences by fostering the invention of methods, instruments and materials will be given additional consideration. Projects are normally funded for a period of four years. Grants are in the range of $600K over the term of the project, contingent upon demonstrated progress after the second year of the award.

Future of Work
Russell Sage Foundation
http://www.russellsage.org/research/funding/future-work
Contact: Aixa Cintron-Velez, programs@rsage.org
Solicitation number:
The Russell Sage Foundation's program on the Future of Work supports innovative research on the causes and consequences of changes in the quality of jobs for less- and moderately-skilled workers and their families. We seek investigator-initiated research proposals that will broaden our understanding of the role of changes in employer practices, the nature of the labor market and public policies on the employment, earnings, and the quality of jobs of workers. We are especially interested in proposals that address important questions about the interplay of market and non-market forces in shaping the wellbeing of workers, today and in the future. Examples of the kinds of topics and questions that are of interest include, but are not limited to, the following: Changing economies, changing families and policy responses (or lack thereof), The economics of productivity and the role of managerial practices in improving job quality, Causes and consequences of job polarization, and Effects of long-term unemployment and strategies to prevent long-term disadvantage. Applications should limit budget requests to no more than a two-year period, with a maximum of $150K (including overhead) per project.

Biomarkers Development RFP
Alzheimer's Drug Discovery Foundation
http://www.alzdiscovery.org/research-and-grants/applyforfunding
Contact: 212/901-7998, grants@alzdiscovery.org
Solicitation number:
This RFP seeks to support the development and validation of novel and existing biomarkers that will enhance the design and performance of clinical trials for Alzheimer's disease, related dementias, and cognitive aging. More accurate and comprehensive biomarkers will improve patient selection and pharmacodynamic measurements, and provide additional tools for early detection and accurate diagnosis. Priority biomarker areas include: 1) Neuroimaging; 2) CSF and blood-based biomarkers; 3) Functional activity measures; and 4) Other novel approaches supported by compelling evidence. The ADDF is particularly interested in developing and validating biomarkers for, but not limited to, neuroinflammation, synaptic function/morphology, energy utilization/mitochondrial function, protein degradation/autophagy, blood-brain barrier integrity/vascular injury, calcium regulation, vesicular trafficking, oxidative stress, insulin sensitivity, and myelin changes. Awards range from $150k - 300k per year for 1-2 years.
### Biomarkers Development

**Alzheimer’s Drug Discovery Foundation**

http://www.alzdiscovery.org/research-and-grants/funding-opportunities/biomarkers

Contact: Andrew Koemeter-Cox, 212/901-7992, akoemetercox@alzdiscovery.org

**Solicitation number:**

This Request for Proposal (RFP) seeks to support the development and validation of novel and existing biomarkers that will enhance the design and performance of clinical trials for Alzheimer’s disease, related dementias, and cognitive aging. More accurate and comprehensive biomarkers will improve patient selection and pharmacodynamic measurements, and provide additional tools for early detection and accurate diagnosis.

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### The Curry Fund of the Geologists' Association

**Geologists’ Association**

http://www.geologistsassociation.org.uk/curry.html

Contact: curryfund@geologistsassociation.org.uk

**Solicitation number:**

The Curry Fund exists to support a variety of causes such as facilitating geological publications, including film, video and television productions, geological conservation (for example the purchase, clearance and recording of sites), and other initiatives approved by the Council, including awards to individuals and very limited assistance with travel costs for overseas visitors engaged in geological research. The objects of the fund are: Geological Publication, Geological Conservation, Overseas Visitors, and Other Initiatives. Grants are normally made for sums between £100 and £3K.

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<td>10/13/2017</td>
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### Lumpkin Family Fund

**The Lumpkin Family Foundation**


Contact: Amanda Standerfer, 217/234-5702, amanda@lumpkinfoundation.org

**Solicitation number:**

We make grants in East Central Illinois that reflect our vision: Our community has a strong local food system and agricultural economy, resilient businesses, and amenities that attract new businesses and retain local talent. We are prosperous; Our community is physically active and values healthy eating. We are well and physically fit; Our community has strong leadership and the capacity for collaboration. We are socially engaged; and Our community works to conserve, protect and preserve the natural environment. We value the natural beauty of the area. We encourage grants from organizations across East Central Illinois. We give preference to rural organizations and those operating in Coles and the surrounding counties. We are especially interested in programs or projects that connect communities.

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### DAAD/AICGS Research Fellowship Program

**American Institute for Contemporary German Studies**

http://www.aicgs.org/employment/daad-aicgs-research-fellowship/

Contact:

**Solicitation number:**

The DAAD/AICGS Research Fellowship Program, is designed to bring scholars and specialists working on Germany, Europe, and/or transatlantic relations to AICGS for research stays of two consecutive months each. Fellowships include a monthly stipend of up to $4,725, depending on the seniority of the applicant; transportation to and from Washington; and office space at the Institute. Project proposals should address a topic closely related to one or more of the Institute’s three research and programming areas: 1) business and economics; 2) foreign and domestic policy; 3) society, culture & politics.
Research Associateship Programs
National Academy of Sciences
http://sites.nationalacademies.org/PGA/RAP/PGA_050491
Contact: 202/334-2760, rap@nas.edu

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.

Abe Fellowship Program
Social Science Research Council
http://www.ssrc.org/fellowships/abe-fellowship/
Contact: 212/377-2700, abe@ssrc.org

The Abe Fellowship is designed to encourage international multidisciplinary research on topics of pressing global concern. The program seeks to foster the development of a new generation of researchers who are interested in policy-relevant topics of long-range importance and who are willing to become key members of a bilateral and global research network built around such topics. It strives especially to promote a new level of intellectual cooperation between the Japanese and American academic and professional communities committed to and trained for advancing global understanding and problem solving. Applicants are invited to submit proposals for research in the social sciences and related disciplines relevant to any one or any combination of the themes: 1) Traditional and non-traditional approaches to security and diplomacy; 2) Global and regional economic issues; and 3) Social and cultural issues. The program provides Abe Fellows with a minimum of 3 and maximum of 12 months of full-time support over a 24 month 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.

Career Awards at the Scientific Interface
Burroughs Wellcome Fund
http://www.bwfund.org/grant-programs/interfaces-science/career-awards-scientific-interface
Contact: Rusty Kelley, 919/991-5120, rkelley@bwfund.org

These grants are intended to foster the early career development of researchers who have transitioned or are transitioning from undergraduate and/or graduate work in the physical/mathematical/computational sciences or engineering into postdoctoral work in the biological sciences, and who are dedicated to pursuing a career in academic research. Scientific advances such as genomics, quantitative structural biology, imaging techniques, and modeling of complex systems have created opportunities for exciting research careers at the interface between the physical/computational sciences and the biological sciences. Tackling key problems in biology will require scientists trained in areas such as chemistry, physics, applied mathematics, computer science, and engineering. BWF’s Career Awards at the Scientific Interface provide $500K over five years to bridge advanced postdoctoral training and the first three years of faculty service.
Resident Scholars Program

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

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

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

One Step Ahead Initiative for 2017

University of California

Solicitation number:

The overall goals of the One Step Ahead initiative are to: (1) facilitate visionary research in HIV science that significantly impacts the HIV epidemic; and (2) fund innovative and highly meritorious projects that have the potential to shift the current paradigm and move the field “one step ahead.” Projects must demonstrate a focus on the California HIV epidemic. Applicant institutions and all project activities must be located in California. There is no restriction as to the discipline (see list on page one for examples and note that all areas of research, whether listed or not, are eligible), only that the work, if successful, would significantly advance the field of HIV research. Applicant budgets can range from $100K up to $750K per year in direct costs, and project duration can range from one to four years.

UC MEXUS Small Grants

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.