Campus and Agency News

UC MEXUS 2018 Call for Proposals Now Open
The 2018 Calls for Proposals for the following programs are now available on the UC MEXUS website:

**UC MEXUS-CONACYT Grants for Collaborative Projects:** The primary objective of the program is to enable the establishment of new collaborative initiatives with the potential for creating permanent ties between UC campuses and Mexican institutions that will grow and continue with the support of other institutional and extramural funds. Awards of up to $25,000 will be provided for the 18-month period.

**UC MEXUS - CONACYT Postdoctoral Research Fellowships:** The primary objective of this program is to advance academic scholarship by emerging Mexican researchers and UC scientists and scholars in the early stages of their careers, after obtaining their Ph.D. In addition, the program seeks to support existing or developing binational academic networks by enhancing collaborative research projects between UC and Mexican faculty and institutions through the innovative involvement and training of new researchers.

**CNSI SEED-TECH Grants**
http://www.cnsi.ucsb.edu/resources/funding/seed-tech-grants
This Request for Information (RFI) is issued in response to the American Innovation and Competitiveness Act (AICA, Public Law No. 114-329), Section 109. The purpose of this RFI is to assess the needs for mid-scale RI from the US-based NSF science and engineering community in order to develop a strategy, in accordance with the AICA. The AICA requires NSF to “evaluate the existing and future needs, across all disciplines supported by the Foundation, for mid-scale projects” and “develop a strategy to address the needs.” This RFI focuses on mid-scale research infrastructure projects with an anticipated NSF contribution of between $20 million and $100 million towards construction and/or acquisition.

**Deadline:** February 26, 2018

**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: Rules of Life (RoL): Forecasting and Emergence in Living Systems (FELS)**
NSF seeks to highlight the importance of research that forecasts the direction and dynamics of change in living systems. The robustness and reproducibility of processes associated with the emergence of complex properties in biological systems suggests the existence of underlying general principles (“rules”) across the spectrum of biological phenomena. Identification and application of these fundamental rules would be of high value to both the scientific community and the Nation. This Dear Colleague Letter (DCL) describes an initial opportunity to identify areas where such rules may exist, to catalyze approaches toward their discovery, and to focus efforts on using these rules for prediction and design of useful biological systems. Activities supported via this DCL include Conferences, EArly-concept Grants for Exploratory Research (EAGERs), and Research Advanced by Interdis-
Dear Colleague Letter: Delay in Issuance of Revised Program Solicitations for CEDAR, GEM, and SHINE
On July 3, 2017 the Division Atmospheric and Geospace Sciences (AGS) released a Dear Colleague Letter (NSF 17-109) announcing our intention to eliminate deadlines for three program solicitations in the Geospace Section - Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR), Geospace Environment Modeling (GEM), and Solar, Heliospheric, and INterplanetary Environment (SHINE). During the revision process we determined that additional modifications to the solicitations are required and want to inform the community that the anticipated release date for the revised CEDAR and GEM solicitations is March 1, 2018. We do not plan to release a solicitation for the SHINE program during fiscal year 2018. Investigators who are planning to submit a proposal to one of these solicitations before this anticipated release date are welcome to submit to the respective Solar Terrestrial, Aeronomy, and Magnetospheric Physics core programs. The Geospace Section remains committed to supporting the science objectives of the CEDAR, GEM, and SHINE programs.

Dear Colleague Letter: ENG/CMMI Call for NSF Big Ideas Proposals
On April 3, 2017, the National Science Foundation issued the Dear Colleague Letter (DCL): Growing Convergence Research at NSF to catalyze new research directions and advance scientific discovery and innovation across the 10 Big Ideas for Future NSF Investments.

Consistent with this DCL, the Division of Civil, Mechanical, and Manufacturing Innovation (CMMI) of the Engineering Directorate invites organizations to submit proposals relevant to the following four Big Ideas, as they intersect with core CMMI topics defined in CMMI program descriptions:

• Work at the Human-Technology Frontier: Shaping the Future;
• Navigating the New Arctic;
• Harnessing the Data Revolution for 21st Century Science and Engineering; and
• Understanding the Rules of Life: Predicting Phenotype.

Proposals may be submitted to CMMI core programs during the CMMI unsolicited proposal submission windows. Principal investigators are strongly encouraged to contact their program director(s) before proposal preparation and submission to determine if their research topic falls within the scope of the program.

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 Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)—Campus Notice of Intent 12/14/2017; Full Proposal 3/28/2018
• NSF Partnerships for Innovation (PFI)—Campus Notice of Intent 12/14/2017; Full Pro-
posal 2/1/2018
• NEA Art Works 2018—Campus Notice of Intent 12/14/2017; Full Proposal 2/15/2018; Full Proposal 7/12/2018
• DOE Energy Frontier Research Centers—Campus Notice of Intent 12/15/2017; Campus Pre-proposals 1/8/2018; DOE Pre-Application 1/31/2018; Full Proposal 4/11/2018
• NSF American National Election Studies Competition (ANES)—Campus Notice of Intent 12/19/2017; NSF Letter of Intent 2/21/2018; Full Proposal 4/20/2018

Programs with open campus spots (please contact funding@research.ucsb.edu if you are interested in submitting to one of these programs):
• NSF CISE Research Infrastructure (CRI) 2017—Full Proposal 1/11/2018
• NIH Postbaccalaureate Research Education Program (PREP)—Full Proposal 1/24/2017
• NSF Partnerships for Research and Education in Materials (PREM)—Full Proposal 1/29/2018
• NSF Cultivating Cultures for Ethical STEM (CCE STEM)—Full Proposal 2/15/2018
Data provided by Office of Research. “( )” represent investigators’ home departments when those are different from the administering unit.


Duran, R.P. (Education), Solis, B. (Education), Gevirtz Graduate School of Education, $1,200, UC Mexus, “Narrative Case Studies of Latinx Transfer Students: Academic Pathways, Career Aspirations, and Perceptions of the Campus Climate.”


Gottfried, M.A. (Education), Institute for Social, Behavioral, & Economic Research, $15,000, San Francisco Foundation, “How Teachers View their Training for Addressing and Combatting Chronic Absenteeism.”


Halpern, B.S., National Center for Ecological Analysis and Synthesis, $424,149, Zegar Family Foundation, “Environmental impact and sustainability of global food systems.”

Hawkes, E.W., Mechanical Engineering, $300,106, Stanford University, “NRI Vine Robot.”

Husak, G.J., Shukla, S., Geography, $1,214,449, University Of Maryland, “NASA Food Security and Agriculture Consortium (FSAC).”


Israelachvili, J.N., Chemical Engineering, $200,000, Aramco Services Company, “Gulf Crude Oil-Rock-Brine interactions at the nano to the macro scales.”

McCaulley, D. (Ecology, Evolution & Marine Biology), Earth Research Institute, $20,200, National Geographic Society, “Deploying next-generation remote sensing technologies to understand collective behavior in animal groups at multiple scales.”

Menard, G., Chemistry & Biochemistry, $110,000, American Chemical Society, “Investigating the Proposed Reduction-Coupled Oxo-Activation Mechanism for Hydro-carbon C-H Functionalization.”


Napoli, M.T. (Institute for Collaborative Biotechnologies), Weld, D. (Physics), California Nanosystems Institute, $225,000, Angstrom Designs Engrg Servs, “Liquid-Metal Microfluidic Portable Energy Transducer (LIMMPET).”


Pollock, T., Beyerlein, I.J. (Mechanical Engineering), Materials, $465,295, Drexel University, “Mechanism and stability of deformation Twinning: Toward Predictive Understanding as a Function of Chemistry and Strain Rate.”

Pollock, T., Materials, $3,000,000, Office of Naval Research (ONR), “A 3-D Platform for Discovery of New Structural Materials.”


Scott, S.L., Chemical Engineering, $120,000, Pfizer Inc., “Design and testing of solid catalysts for carboxylic acid/ester amidation in flow.”

Speck, J.S., Denbaars, S.P., Materials, $901,528, King Abdulaziz City for Science and Technology, “KACST Center of Excellence.”

Streichan, S. (Kavli Institute for Theoretical Physics), Physics, $746,997, National Institutes of Health, “Tissue flow genetics: using cartography to reveal forces driving morphogenesis.”

Susko, T.G., Mechanical Engineering, $5,000, Santa Barbara Cottage Hospital, “Pilot Study of Cadence, a Novel Assistive Shoe for Populations with Drop-Foot.”

Wittmann, M.E. (Donald Bren School of Environmental Science & Management), Marine Science Institute, $1,380,000, California Wildlife Conservation Board, “Sedgwick Reserve Infrastructure and Facilities Project: Phase 2.”
Xie, Y., Electrical & Computer Engineering, $1,493,228, Boeing Aerospace, Inc., "Heterogeneous Interaction Intellectual Modular Property Reused Array at Timescales (HI-IMPACT)."
Helpful Hints

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

### Department of Defense (DOD)

Ongoing

**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)


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.
Ongoing

**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.

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Ongoing

**DOD Defense Enterprise Science Initiative (DESI)**

Department of Defense (DoD)


Contact: varies by topic

Solicitation number: FA9550-18-S-0001

The DESI program targets cross-sector research efforts that accelerate the impact of basic research knowledge on key defense challenges or capability gaps. To that end, DESI will fund basic research efforts that could significantly impact the trajectory of industry applied research, existing development or acquisition programs, or future capabilities. The FY18 DESI program seeks university-industry performer teams. Research effort in this program should be guided by potential applications in applied research or development programs. Awards will be funded approximately at $750k per year for two years. The FY 2018 DESI BAA program seeks proposals addressing these recommended topics: a) Power Beaming; b) Highly-maneuverable autonomous UAV; c) Soft Active Composites with Intrinsic Sensing, Actuation; d) Control Metamaterial-based Antennas and e) Alternate Topics (must represent an area where significant defense challenges exist, and that would benefit from a use-inspired basic research program by a university-industry partnership.)

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2/5/2018 Application

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

Department of the Army

http://www.grants.gov/custom/viewOppDetails.jsp?oppId=219293

Contact: Jay Goodwin, 703/545-2410, jay.goodwin@us.army.mil

Solicitation number: W911NF-13-R-0001

The funding opportunity is divided into two sections: 1) Basic Research; and 2) Applied Research and Advanced Technology Development. Topic areas of research interest include the following: 1) Improving Training in Complex Environments; 2) Improving Leader and Team Performance; 3) Identifying, Assessing, and Assigning Quality Personnel; and 4) Understanding Organizational Behavior and Network Science. The ARI seeks Applied Research proposals that provide a systematic expansion and application of knowledge to design and develop useful strategies, techniques, methods, tests, or measures that provide the means to meet a recognized and specific Army need. These projects should demonstrate the general military utility or cost reduction potential of technology in the areas of personnel selection, assignment, and retention; training strategies and techniques; leader education and development; performance measurement; and team and inter-organizational mission effectiveness.

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**Department of Energy (DOE)**
Energy Frontier Research Centers - Limited Submission

Department of Energy


Contact: Michael D. Hill, michael.hill@science.doe.gov

Solicitation number: DE-FOA-0001810

The EFRC program, initiated in 2009, brings together the skills, talents, and expertise of teams of scientists to perform energy-relevant, basic research with a scope and complexity beyond what is possible in standard single-investigator or small-group awards. These multi-investigator, multi-disciplinary centers enable, encourage, and accelerate transformative scientific advances for the most challenging topics in materials sciences, chemical sciences, geosciences, and biosciences. EFRCs conduct fundamental research focused on one or more “grand challenges,” “transformative opportunities,” and “basic research needs” identified in major strategic planning efforts by the Office of Basic Energy Sciences (BES) and the scientific community. BES expects the EFRCs to accelerate scientific breakthroughs in areas relevant to the DOE mission by addressing problems with scope, complexity and risk that are beyond the capabilities of single investigator or small-group projects. Awards will range from approximately $2M - $4M per year for four years.

Department of the Interior (DOI)

Ongoing

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: F16AS00029

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

U.S. Fish & Wildlife Service


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

Solicitation number:

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.

National Endowment for the Arts (NEA)
Art Works 2018 - Limited Submission
National Endowment for the Arts
https://www.arts.gov/grants-organizations/art-works/grant-program-description
Contact: varies
Solicitation number:
Art Works projects support public engagement with, and access to, various forms of excellent art across the nation, the creation of art that meets the highest standards of excellence, learning in the arts at all stages of life, and the integration of the arts into the fabric of community life. NEA encourages projects that: 1) Celebrate America's creativity and cultural heritage; 2) Invite a dialogue that fosters a mutual respect for the diverse beliefs and values of all persons and groups; or 3) Enrich our humanity by broadening our understanding of ourselves as individuals and as a society. An organization may request a grant amount from $10K to $100K. Applications will be accepted under two deadlines, depending on discipline. All grants require a nonfederal match of at least 1 to 1.

National Endowment for the Humanities (NEH)
1/11/2018 Application
National Digital Newspaper Program
National Endowment for the Humanities
Contact: 202/606-8570, preservation@neh.gov
Solicitation number:
NEH is soliciting proposals from institutions to participate in the National Digital Newspaper Program (NDNP). NDNP is creating a national digital resource of historically significant newspapers published between 1836 and 1922, from all the states and U.S. territories. This searchable database will be permanently maintained at the Library of Congress (LC) and be freely accessible via the Internet. An accompanying national newspaper directory of bibliographic and holdings information on the website directs users to newspaper titles available in all types of formats. During the course of its partnership with NEH, LC will also digitize and contribute to the NDNP database a significant number of newspaper pages drawn from its own collections. One organization within each U.S. state or territory will receive an award to collaborate with relevant state partners in this effort. Over a period of two years, successful applicants will select newspapers—published in their state or territory between 1836 and 1922—and convert approximately 100,000 pages into digital files (primarily from microfilm), according to the technical guidelines (PDF) outlined by the Library of Congress. Applicants may select titles published in English, French, German, Italian, or Spanish. (More languages will be added in future years.) NEH expects to award cooperative agreements of up to $325K each for a two-year period. Although cost sharing is not required, NEH is rarely able to support the full costs of projects approved for funding. In most cases, NEH awards cover no more than 80 percent of project costs.

National Institutes of Health (NIH)
Ongoing
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.
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.
Alcohol Research Resource Awards (R24)

National Institutes of Health


Contact:  Gary Murray, 301/443-9940, gary.murray@nih.gov

Solicitation number:  PAR-17-170

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.

12/30/2017  Letter of Intent
1/30/2018  Application

NICHD Laboratory of Developmental Biology (R24)

National Institutes of Health


Contact:  LabDevBio@mail.nih.gov

Solicitation number:  PAR-FY-396

This FOA is to provide support for a resource aimed at the collection, identification, staging, and distribution of conceptal tissues to investigators performing biomedical research on fundamental biological process 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 conceptal 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.
Phased Innovation Award for Mechanistic Studies to Optimize Mind and Body Interventions in NCIHH High Priority

National Institutes of Health

https://grants.nih.gov/grants/guide/pa-files/PAR-17-149.html

Contact: Wen Chen, 301/451-3989, chenw@mail.nih.gov

Solicitation number: PAR-17-149

The intent of this FOA is to encourage research that studies Mind and Body Interventions in two phases. The first phase is to explore and identify underlying mechanisms of action for a Mind and Body Intervention and to develop methods to assess those mechanisms or processes. The second phase should focus on how the putative mechanism(s) or process(es) may be improved, refined, enhanced, or strengthened in relation to the functional outcome or clinical benefit of the intervention. NCIHH views the goal of the early-phase R61 of this grant award being provision of efficient and objective means for examining a proposed mechanism or process that could then be directly applied to improving and optimizing the benefit of a Mind and Body Intervention in the R33 phase. This FOA supports research exploring putative mechanisms or processes underlying Mind and Body Interventions intended for human participants. The mechanism(s) or process(es) proposed for the study can use epigenetic, biochemical, molecular, cellular, physiological, neurophysiological, or behavioral methods. They can be tissue- or organ-specific mechanisms or measures of psychosocial and behavioral processes, such as stress reactivity, self-regulation, sustained attention, or social, interpersonal, or somatic processes that are relevant to the proposed intervention. This FOA is not intended to support work exclusively focusing on the characteristics of practitioners or of healthcare settings in which the intervention is delivered. Such characteristics, however, may be included for study if a strong rationale can be made for their importance in modulating the putative underlying mechanism(s) or process(es) associated with an intervention. Research applications submitted under this FOA are likely to cover a large and diverse group of complementary integrative health interventions, practices, and disciplines. NCIHH is, however, interested in: (1) interventions that have compelling evidence for potential health benefit; (2) interventions with evidence that they can exert a plausible and measurable biological or psychological effect; and (3) practices that are widely used by the American public. Application budgets are not limited, but it is strongly recommended that applicants not request a budget of more than $300K in direct costs per year for the R61 phase and $500K in direct costs per year for the R33 phase. The scope of the project should determine the project period for each phase. The maximum period of the combined R61 and R33 phases is 5 years, with 1 to 2 years for the R61 phase and up to 3 years for the R33 phase.
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.

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.

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 Joseph, 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 period. The maximum project period is 5 years.

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.

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.
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 Cancer
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.

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.

Catalyzing Innovation in Late Phase Clinical Trial Design and Statistical Analysis Plans Resource Access (X01)
National Institutes of Health
Contact: Andrei Kindzelski, 301/435-0050, kindzelskial@nhlbi.nih.gov
Solicitation number: RFA-HL-18-009
The purpose of this FOA is to provide access to a consultative resource for planning activities for late phase (phase II and beyond) single-site or multi-site investigator-initiated clinical trials that address critical clinical questions within the mission of the National Heart, Lung, and Blood Institute (NHLBI) and that require non-traditional clinical trial designs with the opportunity for statistical novelty and/or innovation. The FOA will support the development of feasible and well-designed clinical trials utilizing consultative services provided by the Innovative Clinical Trials Resource (ICTR) (N01). The maximum project period is 1 year.
Catalyzing Innovation in Late Phase Clinical Trial Design and Statistical Analysis Plans Resource Access (X01)
National Institutes of Health
Contact: Andrei Kindzelski, 301/435-0050, kindzelskial@nhlbi.nih.gov
Solicitation number: PAR-17-294
The purpose of this FOA is to provide access to a consultative resource for planning activities for late phase (phase II and beyond) single-site or multi-site investigator-initiated clinical trials that address critical clinical questions within the mission of the National Heart, Lung, and Blood Institute (NHLBI) and that require non-traditional clinical trial designs with the opportunity for statistical novelty and/or innovation. The FOA will support the development of feasible and well-designed clinical trials utilizing consultative services provided by the Innovative Clinical Trials Resource (ICTR) (N01). Funds are not awarded via the X01 mechanism. The maximum project period is 1 year.

National Institutes of Health
Contact: Meena Hiremath, 301/443-8765, NHLBI_R35@mail.nih.gov
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 programatically 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 an OT2 application as a requirement for submission. The Invitation to Submit an OT2 application is not an indicator of any award.

NHLBI Outstanding Investigator Award (OIA) (R35)
National Institutes of Health
Contact: Meena Hiremath, 301/443-8765, NHLBI_R35@mail.nih.gov
Solicitation number: RFA-HL-16-024
The purpose of this award is to promote scientific productivity and innovation by providing long-term support and increased flexibility to experienced Program Directors (PDs)/Principal Investigators (PDs/PIs) who are currently PDs/PIs on at least two NHLBI R01-equivalent awards and whose outstanding record of research demonstrate their ability to make major contributions to heart, lung, blood and sleep (HLBS) research. The NHLBI OIA is intended to support a research program, rather than a research project, by providing the primary and most likely sole source of NHLBI funding on individual grant awards. The NHLBI OIA will support the research program of NHLBI-funded investigators for up to seven years. The NHLBI OIA will provide investigators increased freedom to conduct research that breaks new ground or extends previous discoveries in new directions. It will also allow PDs/PIs to take greater risks and to pursue research that requires a longer timeframe. Research supported by the NHLBI OIA should be within the scope of the NHLBI mission (http://www.nhlbi.nih.gov/about/org/mission), sleep disorders closely-coupled to HLB outcomes, or basic sleep and circadian regulation. Applications may request up to $600k direct costs per year.
This FOA runs in parallel with a FOA of identical scope, RFA-HL-16-025, that utilizes the R35 Outstanding Investigator Award mechanism.
Administrative Supplements for Research on Dietary Supplements (Admin Supp)
National Institutes of Health
Contact: Varies with research interest.
Solicitation number: PA-17-307
This FOA announces the availability of administrative supplements to support research in which the supplemental funding would
investigate the role of dietary supplements and/or their ingredients in health maintenance and disease prevention. Parent
awards need not be focused on dietary supplements; this FOA may provide support to include dietary supplements within the
scope of relevant research projects. Research interests of ODS are not limited to specific health conditions, organ systems or
population groups. ODS supports all types of research, including pre-clinical, clinical, behavioral, and epidemiological.
Additionally, ODS supports research and training programs that build future research capacity for studying the role of dietary
supplements in health and disease prevention. Primary consideration for support will be given to applications that stimulate
dietary supplement research where it is lacking or lagging, clarify gaps, opportunities and balance between benefits and risks
where data are in conflict, target special population groups where additional science on dietary supplements is needed, and
focus on the use of dietary supplements in improving or maintaining health and reducing the risk of chronic disease. This FOA
will not support new clinical trials. Budget requests may be for no more than $100K in direct costs. Application budgets are
limited to no more than the amount of the current parent award, and must reflect the actual needs of the proposed project. The
project and budget periods must be within the currently approved project period for the existing parent award. Awards are
limited to one year.

Cardiovascular and Pulmonary Research on E-Cigarettes (R01)
National Institutes of Health
Contact: Lisa Postow Ph.D., 301/435-0202, lisa.postow@nih.gov
Solicitation number: RFA-HL-18-024
The purpose of this funding opportunity announcement (FOA) is to stimulate research on non-cancer cardiovascular and
pulmonary physiologic and health effects of electronic cigarette (e-cigarette) exposure. This FOA invites applications addressing
the effects of e-cigarettes on the cardiovascular and pulmonary systems, alone or in combination. Studies involving clinical
populations, animal models and/or cell preparations would all be considered responsive. Research may examine the effects of
the whole e-cigarette aerosol or of individual components or constituents. Research may also examine where aerosols,
components, or constituents deposit in the airways and resulting heart and/or lung consequences. Application budgets should
reflect the actual needs of the proposed project. Application budgets may not exceed $300K direct costs per year.
Marijuana, Prescription Opioid, or Prescription Benzodiazepine Drug Use Among Older Adults (R03)

National Institutes of Health


Contact: Shelley Su, 301/402-3869, shelley.su@nih.gov

Solicitation number: PA-17-198

The intent of this funding opportunity announcement is to support innovative research that examines aspects of marijuana and prescription opioid and benzodiazepine use in adults aged 50 and older. This FOA encourages research that examines the determinants of these types of drug use and/or characterizes the resulting neurobiological alterations, associated behaviors, and public health consequences. This initiative will focus on two distinct populations of older adults: individuals with earlier onset of drug use who are now entering this stage of adult development or individuals who initiate drug use after the age of 50.

Applications are encouraged to utilize broad methodologies ranging from basic science, clinical, and epidemiological approaches. The insights gleaned from this initiative are critical to our understanding of the determinants of drug use in later life, as well as its consequences in the aging brain and on behavior. This knowledge may have the potential to identify risk factors and to guide clinical practices in older populations. This initiative will focus on two distinct older adult populations (over the age of 50): (1) individuals with earlier drug use onset who are now entering older age, or (2) individuals who initiate drug use after the age of 50. Insights gained from this initiative have the potential to inform the public and health care systems regarding cannabis and prescription drug use in older populations. The Small Research Grant (R03) supports small research projects that can be carried out in a short period of time with limited resources, such as pilot and feasibility studies, secondary analysis of existing data, small, self-contained research projects, development of research methodology, and development of new research technology. Application budgets are limited to $50K in direct costs per year. The total project period may not exceed two years.

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.
Maximizing Investigators' Research Award (R35)

National Institutes of Health


Contact: Varies

Solicitation number: PAR-17-094

The Maximizing Investigators' Research Award (MiRA) is a grant to provide support for the program of research in an investigator’s laboratory that falls within the mission of NIGMS. For the purpose of this FOA, a program of research is the collection of projects in the investigator's lab that are relevant to the mission of NIGMS. The goal of MiRA is to increase the efficiency and efficacy of NIGMS funding. It is anticipated that this mechanism will: Increase the stability of funding for NIGMS-supported investigators, which could enhance their ability to take on ambitious scientific projects and approach problems more creatively; Increase flexibility for investigators to follow important new research directions as opportunities arise, rather than being bound to specific aims proposed in advance of the studies; More widely distribute funding among the nation's highly talented and promising investigators to increase overall scientific productivity and the chances for important breakthroughs; Reduce the time spent by researchers writing and reviewing grant applications, allowing them to spend more time conducting research; Enable investigators to devote more time and energy to mentoring trainees in a more stable research environment.

Applications may request a maximum project period of five years. Eligibility is restricted to PDs/PIs with at least one NIGMS R01 equivalent award (defined here as R01, R37, DP2, and SC1 awards) that was awarded funding in the fiscal year prior to the fiscal year of the MiRA application submission and whose project end date is in the same or subsequent fiscal year of the MiRA application submission. See restrictions on overlapping applications in Section III.3. PDs/PIs who submitted a MiRA application in previous years and are eligible for this FOA are welcome to apply, but must submit a New Application, rather than a Resubmission. Applications may request up to $750K direct costs per year. Investigators are encouraged to request what are well-justified actual costs for their research program.

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.
Observational Studies of Behavioral Interventions for Prevention of Opioid Use Disorder or Adjunct to Medication

National Institutes of Health


Contact:

Solicitation number: RFA-AT-18-002

The purpose of this FOA is to solicit applications to examine the impact of behavioral interventions within the context of states' plans for use of the SAMHSA Opioid STR grant funds authorized under the 21st Century Cures Act. Applications are encouraged for clinical trials or observational studies that examine the impact of interventions such as mindfulness meditation, cognitive behavioral therapy, or multi-disciplinary rehabilitation for primary or secondary prevention for opioid use disorder (OUD) or as an adjunct to medication assisted treatment (MAT) of OUD. Applications that emphasize treatment of the comorbidities of OUD and chronic pain are of particular interest.

T32 Training Program for Institutions That Promote Diversity (T32)

National Institutes of Health


Contact: Sandra Hatch, 301/435-0222, hatchs@nhlbi.nih.gov

Solicitation number: RFA-HL-16-007

The purpose of this FOA is to enhance the participation of individuals from diverse backgrounds underrepresented in cardiovascular, pulmonary, hematologic and sleep disorders research across the career development continuum. The NHLBI’s T32 Training Program for Institutions That Promote Diversity is a Ruth L. Kirschstein National Research Service Award Program intended to support training of predoctoral and health professional students and individuals in postdoctoral training institutions with an institutional mission focused on serving health disparity populations not well represented in scientific research, or institutions that have been identified by federal legislation as having an institutional mission focused on these populations, with the potential to develop meritorious training programs in cardiovascular, pulmonary, hematologic, and sleep disorders. The primary goals of the T32 Training Program for Institutions That Promote Diversity are to: (1) contribute to the expansion of the future pool of individuals from diverse backgrounds underrepresented in research areas of interest to the NHLBI, (2) enable trainees to increase their competitiveness for peer-review research funding, (3) strengthen publication records of trainees, and (4) foster institutional environments conducive to professional development in the biomedical sciences.

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.
1/25/2018 Application

**Initiative to Maximize Research Education in Genomics: Courses for Skills Development (R25)**

National Institutes of Health


Contact: Bettie Graham, 301/496-7531, bettie_graham@nih.gov

Solicitation number: PAR-16-090

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this NHGRI R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs by supporting short, advanced level courses that are intended to disseminate new techniques, methods, and analyses related to the mission of the NHGRI. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on Courses for Skills Development. Because the nature and scope of proposed courses will vary from application to application, it is anticipated that the size and duration of each award will also vary. For Short-Term Advanced Courses, the total project period for an application submitted in response to this funding opportunity may not exceed 3 years.

1/25/2018 Application

**Support of NIGMS Program Project Grants (P01)**

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


Contact: Catherine Lewis, 301/594-0828, lewisc@nigms.nih.gov

Solicitation number: PAR-16-433

This FOA encourages program project grant applications that propose to conduct research which aims to solve a significant biological problem, important for the mission of NIGMS, through a collaborative approach involving outstanding scientists who might not otherwise collaborate. The program project grant mechanism is designed to support research in which the funding of several interdependent projects as a group offers significant scientific advantages over support of these same projects as individual regular research grants. An upper limit of $6.5M direct costs for the entire five-year project period may be requested.

1/25/2018 Application

**NIDDK Research Education Program Grants for Courses for Skills Development (R25)**

National Institutes of Health


Contact: Arthur Castle, 301/594-7719, castlea@mail.nih.gov

Solicitation number: PAR-15-139

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this NIDDK Research Education R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. To accomplish this goal, this FOA will support creative educational activities that propose courses for skills development in the research areas relevant to the NIDDK.

1/25/2018 Application

5/25/2018 Application

9/25/2018 Application

**Large Health Services Research Demonstration and Dissemination Projects for Prevention of Healthcare-Associate**

National Institutes of Health


Contact: James Cleeman, 301/427-1330, james.cleeman@ahrq.hhs.gov

Solicitation number: PA-17-007

This FOA issued by AHRQ invites grant applications for funding to conduct Large Health Services Research Demonstration and Dissemination Projects (R18) that propose to address strategies and approaches for prevention and reduction of Healthcare-Associated Infections (HAIs). The FOA describes the broad areas of HAI research for which funds are available to support Health Services Research Demonstration and Dissemination Projects. The total costs awarded to a grant under this FOA will not exceed $500K in any given year for a period of up to 5 years.
National Cancer Institute Youth Enjoy Science Research Education Program (R25)

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this National Cancer Institute (NCI) R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on Research Experiences, Curriculum or Methods Development and Outreach. The NCI’s mission is to conduct and support research, training, health information dissemination, and other programs with respect to cancer. This funding opportunity seeks to facilitate the education of students from diverse backgrounds underrepresented in biomedical research who will become knowledgeable about cancer, and available to focus on cancer later in their careers. With the aim of enhancing the pool of individuals from underrepresented backgrounds interested in pursuing a career in biomedical research via early intervention strategies, the NCI Youth Enjoy Science (YES) Program will support efforts to create and maintain an institutional program to engage grades 6-12 and/or undergraduate students from underrepresented populations in cutting edge cancer research experiences. The proposed institutional programs may also provide research experiences for the grade 6-12 teachers and undergraduate faculty members who serve underrepresented student populations. The specific goals are to inspire interest in biomedical sciences, help envision research as a career path, and strengthen practical research and career skills. In alignment with these goals, institutions may develop unique programs that capitalize on their research strengths and are responsive to their target populations.

1/25/2018 Application

NINDS Program Project Grant (P01)

This FOA is issued by the National Institute of Neurological Disorders and Stroke to enable submission of program project grant applications that propose to conduct innovative, interactive research to answer significant scientific questions that are important for the mission of NINDS, via a synergistic collaboration between outstanding scientists who might not otherwise collaborate. The program project grant is designed to support research in which the funding of several interdependent highly meritorious projects as a group offers significant scientific advantages over support of these same projects as individual research grants. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period for these awards is 5 years.

1/25/2018 Application

NIA MSTEM: Advancing Diversity in Aging Research through Undergraduate Education (R25)

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.
U.S. Tobacco Control Policies to Reduce Health Disparities (R01)

National Institutes of Health


Contact: Bob Vollinger, 240/276-6919, Bob.Vollinger@nih.gov

Solicitation number: PAR-17-217

This FOA seeks applications for research projects to improve our understanding of how to address health disparities in tobacco use in the United States, with an emphasis on innovative tobacco control policies including those focused on health economics. Examples include, but are not limited to, the following: tax and pricing policies, the marketing and retail sales environment, protecting nonsmokers from secondhand smoke (SHS) exposure, insurance coverage for tobacco dependence treatment, and other promising public and private tobacco control policy approaches. Applicants may propose projects in which the focus is on reducing health disparities in vulnerable populations by utilizing tobacco prevention and control strategies. Applicants may propose projects in which the primary outcome of interest is on reducing tobacco use health disparities in vulnerable populations by utilizing tobacco prevention and control strategies. The long-term goal of this FOA is reduce health disparities in health outcomes, thereby reducing the excess disease burden of tobacco use within these groups. Applicants submitting proposals related to health economics are encouraged to consult NOT-OD-16-025 to ensure that proposals align with NIH mission priorities in health economics research. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

Summer Research Experiences for Students and Science Teachers (Admin Supp)

National Institutes of Health


Contact: Astrid Haugen, 919/541-4415, Haugen@niehs.nih.gov

Solicitation number: PA-17-055

The National Institute of Environmental Health Sciences hereby notifies Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) with R01, R21, R15, R35, R37, or P01 awards that funds are available for administrative supplements to support summer research experiences in environmental health science for high school students, college undergraduates, master’s degree candidates, medical students, secondary school science teachers, and science professors from R15/AREA grant eligible institutions. Administrative supplements must support work within the scope of the original project.
 Obesity and Asthma Awareness and Management (R01)
National Institutes of Health, National Institute of Nursing Research (NINR)
Contact: Karen Huss, 301/594-5970, hussk@mail.nih.gov
Solicitation number: PA-18-379
The purpose of this Funding Opportunity Announcement (FOA) is to encourage research that examines the relationship between asthma, obesity and self-management. It seeks to build the science of obesity, asthma, and self-management awareness. Application budgets are not limited but need to reflect the actual needs of the proposed project.

 Investigations on Primary Immunodeficiency Diseases (R01)
National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)
Contact: David Johnson, 240/627-3499, drjohnson@niaid.nih.gov
Solicitation number: PAR-15-130
This FOA is intended to support innovative investigations in primary immunodeficiency diseases. Of particular interest are the detection of primary immunodeficiency diseases, the identification of the molecular basis of these diseases, and the design and pre-clinical development of innovative therapies for these diseases. Studies using samples obtained from humans and studies on animal models are encouraged. Investigators who have not received independent NIH funding in this field are encouraged to apply. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-314, which utilizes the R03 Small Grant mechanism, and PA-13-315, which utilizes the R21 Exploratory/Developmental Grant mechanism.

 International Research Collaboration on Drug Abuse and Addiction Research (R01)
National Institutes of Health, National Institute on Drug Abuse (NIDA)
Contact: Steven Gust, 301/443-6480, ipdirector@nida.nih.gov
Solicitation number: PA-15-142
This FOA encourages collaborative research applications on drug abuse and addiction that take advantage of special opportunities that exist outside the U.S. Special opportunities include access to unusual talent, resources, populations, or environmental conditions in other countries that will speed scientific discovery. This year the scientific priorities include: linkages between HIV/AIDS and drug abuse, and prevention, initiation, and treatment of nicotine and tobacco use (especially among vulnerable populations such as children, adolescents, pregnant women, and those with co-morbid disorders). Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.
Research to Action - Assessing and Addressing Community Exposures to Environmental Contaminants (R01)

This FOA encourages applications using community-engaged research methods to investigate the potential health risks of environmental exposures of concern to the community and to implement an environmental public health action plan based on research findings. The overall goal is to support changes to prevent or reduce exposure to harmful environmental exposures and improve the health of a community. This announcement also reflects the National Institute of Nursing Research's (NINR’s) ongoing investment in clinical, biological, and translational research programs in many areas, including chronic illness, symptom management, disease prevention, and patient-focused health programs that encourage and enable individuals to become guardians of their own well-being. These investments are based on the perspective that the science of health encompasses the investigation of multiple health determinants, including environmental factors and its impact on the health promotion and self-management behavior of individuals within their communities. NINR seeks to support research that promotes health equity and eliminates health disparities by investigating the interplay of behavioral, biological, and environmental determinants of health and wellness for all populations, including underserved and resource-limited communities. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is five years.

Health Services and Economic Research on the Prevention and Treatment of Drug, Alcohol, and Tobacco Abuse (R01)

This FOA encourages Research Project Grant (R01) applications on health services and economic research to improve the quality of prevention, treatment, and recovery support services for drug, alcohol and tobacco abuse. Such research projects might emphasize any of the following subjects: (1) clinical quality improvement; (2) organization and delivery of services; (3) implementation research; (4) economic and cost studies; or (5) development or improvement of research methodology, analytic approaches, and measurement instrumentation used in the study of drug, alcohol, and tobacco prevention, treatment, and recovery services. This FOA runs in parallel with three FOAs of identical scientific scope, PA-15-253, PA-15-252, and PA-15-250 that utilize the R21 Exploratory/Developmental Grant, R03 Small Grant Program and Planning Grant mechanisms respectively.

Pregnancy in Women with Disabilities (R01)

This FOA encourages research project grants (R01) investigating the incidence, course, and outcomes of pregnancy among women with disabilities. Areas of interest also include studies to inform preconceptional and antenatal counseling and strategies for addressing barriers to prenatal care, and management of pregnancy, the puerperium, and the transition to parenthood in order to optimize outcomes for women with physical, intellectual and developmental, and/or sensory disabilities and their families. Applicants are encouraged to include women with disabilities and members of the community in the design and conduct of their research. This FOA runs in parallel with three FOAs of identical scientific scope, PA-17-451, PA-17-452, and PA-17-453 that utilize the R21 Exploratory/Developmental Grant, R03 Small Grant Program and Planning Grant mechanisms respectively.
Ethical, Legal, and Social Implications (ELSI) of Genomics Research Project Grant Program (R01)

National Institutes of Health


Contact: Joy Boyer, 301/402-4997, jb40m@nih.gov

Solicitation number: PA-17-444

This Funding Opportunity Announcement (FOA) invites Research Project Grant (R01) applications that propose to study the ethical, legal and social implications (ELSI) of human genome research. Applications may propose studies using either single or mixed methods. Proposed approaches may include but are not limited to data-generating qualitative and quantitative approaches, legal, economic and normative analyses, and other types of analytical and conceptual research methodologies, such as those involving the direct engagement of stakeholders. Application budgets are not limited but need to reflect the actual needs of the proposed project.

Maternal Nutrition and Pre-pregnancy Obesity: Effects on Mothers, Infants and Children (R01)

National Institutes of Health


Contact: Rebecca Henry, 301/594-5976, henryrr@mail.nih.gov

Solicitation number: PA-15-100

This FOA encourages applications to improve health outcomes for women, infants and children, by stimulating interdisciplinary research focused on maternal nutrition and pre-pregnancy obesity. Maternal health significantly impacts not only the mother but also the intrauterine environment, and subsequently fetal development and the health of the newborn. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is three years.

Advancing Translational and Clinical Probiotic/Prebiotic and Human Microbiome Research (R01)

National Institutes of Health


Contact: Gabriela Riscuta, 240/276-7118, gabriela.riscuta@nih.gov

Solicitation number: PA-15-127

The purpose of this FOA is twofold: 1. to accelerate translational and clinical Phase I and II a/b safety and efficacy studies for substantiating measurable functional benefits of probiotic/prebiotic components and/or their combinations; and; 2. to understand the underlying mechanisms of their action(s), and variability in responses to these interventions. This FOA calls for interdisciplinary collaborations across scientific disciplines engaged in microbiome and pro/prebiotic research including, but not limited to: nutritional science, microbiology, virology, microecology and microbiome, genomics, immunology, computational biology, chemistry, bioengineering, as well as integration of omics and computational approaches in DNA technologies. 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 period is 5 years.

New Directions in Hematology Research (SHINE-II) (R01)

National Institutes of Health


Contact: varies with research interest

Solicitation number: PAS-15-168

This FOA is intended to promote innovative research initiatives that explore high impact, new directions of inquiry relevant to the hematology research mission of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). NIDDK invites investigator-initiated grant applications for basic or pre-clinical, proof of principle research projects that are tightly focused and directed at validating novel concepts and approaches that promise to open up new pathways for discovery. The maximum award is $200K per year for up to three years.
Advancing Understanding, Prevention, and Management of Infections Transmitted from Women to their Infants (R01)
National Institutes of Health

Contact: Nahida Chakhtoura, 301/435-6872, nahida.chakhtoura@nih.gov

Solicitation number: PA-16-032

The purpose of this FOA is to stimulate investigations including translational, epidemiologic and clinical studies that improve the understanding, prevention and clinical outcomes of non-HIV infections transmitted from women to their offspring during pregnancy, labor/delivery, and breastfeeding. To improve the health and well-being of mothers, their infants, and families and cause a reduction in perinatal morbidity associated with infections, NICHD will support scientific research to increase the understanding of infectious diseases transmitted from mother to child. Application budgets are not limited but need to reflect the actual needs of the proposed project. This FOA runs in parallel with a FOA of identical scope, PA-16-031, that utilizes the R21 Exploratory/Developmental Grant 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 period is 5 years.

Methodology and Measurement in the Behavioral and Social Sciences (R01)
National Institutes of Health

Contact: Deborah Hyman-Young, 301/451-0724, deborah.young-hyman@nih.gov

Solicitation number: PAR-16-260

The purpose of this FOA is to invite qualified researchers to submit grant applications aimed at improving and developing methodology in the behavioral and social sciences through innovations in research design, measurement, data collection and data analysis techniques. The participating NIH Institutes and Centers (ICs) encourage research that will improve the quality and scientific power of behavioral and social science data relevant to the IC missions. Applicants are encouraged but not required to address methodologic issues related to: interdisciplinary, multimethod, and multilevel approaches in behavioral and social science research, including broadly applicable approaches that foster integration with biomedical, physical, or computational science research or engineering; Integrating, mining and modeling behavioral and social science data in combination with genetic, epigenetic, biomarker and imaging data; research in diverse populations that are distinctive by virtue of demographics, cultural or linguistic characteristics, sexual orientation or gender identity, health system, mental or physical abilities, underrepresentation in research or other factors, where the outcome would have a significant impact on improving health in that population; the study of sensitive health-related behaviors in the context of healthcare, the social environment, and local/state/national policies; and ethics in research, such as informed consent, enrollment of minors including assent, assessment of risk and benefit, selection and retention of participants, privacy and confidentiality. The maximum project period is 5 years.

Large Research Projects for Prevention of Healthcare-Associated Infections (R01)
National Institutes of Health
https://grants.nih.gov/grants/guide/pa-files/PA-17-008.html

Contact: James Cleeman, 301/427-1330, james.cleeman@ahrq.hhs.gov

Solicitation number: PA-17-008

This FOA issued by AHRQ invites grant applications for funding to conduct Large Research Projects (R01) that propose to advance the base of knowledge for detection, prevention, and reduction of Healthcare-Associated Infections (HAIs). The FOA describes the broad areas of HAI research for which funds are available to support Large Research Projects. The total costs awarded to a grant under this FOA will not exceed $500K in any given year for a period of up to five (5) years. The project period may not exceed 5 years.
Clarifying the Relationship between Delirium and Alzheimer’s Disease and Related Dementias (R01)

National Institutes of Health

Contact: Susan Zieman, 301/496-6761, susan.zieman@ni.gov

Solicitation number: PAR-17-038

This Funding Opportunity Announcement (FOA) invites applications that focus on clarifying the relationship between delirium and Alzheimer’s disease and related dementias (ADRD). Specifically sought is research focusing on understanding why persons with ADRD are at increased risk to develop delirium, often with a worse prognosis compared to those without antecedent ADRD, and why patients who experience delirium are at higher risk to develop subsequent short- and/or long-term mild cognitive impairment or ADRD, often with an accelerated rate of cognitive decline compared to those without preceding delirium. Relevant research projects may focus on, but are not limited to, those that A) provide insight into possible common, sequential, causative, contributory and/or synergistic pathways underlying both ADRD and delirium, B) elucidate mechanisms that lead to the development of delirium against the background of aging and/or neurodegeneration, with particular emphasis on use of appropriate animal models, C) identify risk factors for the onset and/or progression of delirium in those with ADRD and vice versa, D) diagnose and assess one condition in the setting of the other, E) identify putative phenotypes of patients with co-existing ADRD and delirium, or F) test pharmacologic and/or non-pharmacologic strategies to prevent, treat, or reduce the impact of delirium in patients with ADRD and vice versa. Research supported by this FOA is intended to provide mechanistic insight to improve risk assessment, diagnosis, phenotyping, prevention, and management approaches for both delirium and ADRD.

Focused Technology Research and Development (R01)

National Institutes of Health

Contact: Douglas Sheeley, 301/451-6446, sheeleyd@mail.nih.gov

Solicitation number: PAR-17-045

This initiative will support projects that focus solely on development of technologies with the potential to enable biomedical research. Projects should be justified in terms of potential biomedical impact, but should not include any application to specific biomedical research questions. Proof of principle for the technology will have already been shown, but there will still be significant fundamental technical challenges. Applications should include preliminary data. The products of this research will be functioning prototype instruments, methods, synthetic approaches, etc., characterized adequately to be ready for first application to the type of biomedical research questions that provided the rationale for their 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 4 years. The grant may be renewed one time.
Advancing our Understanding of the Brain Epitranscriptomics (R01)

The purpose of this FOA is to enable and stimulate research to identify and understand the functional role of RNA modifications in the brain and the associated readers, writers, and eraser complexes in basic neurobiological processes. Research projects appropriate for this initiative can fall in several areas: (1) discovery of novel brain-specific or brain-enriched RNA modifications; (2) development of tools, technologies or methods to detect and profile RNA modifications in the brain including at single nucleotide resolution; (3) investigations of the dynamics of RNA modifications in specific brain cell types/cell programs/tissues; (4) mechanistic studies of the proteins involved in ‘writing’, ‘reading’, and/or ‘erasing’ epitranscriptomic modifications in the brain; and (5) development of assays for the detection and the perturbation of (adding/removing) modifications at specific sites. Proposed projects should explore the brain-specific role of one or more eukaryotic RNA modifications of any of the 4 RNA bases, cytosine, guanidine, adenine or uracil (e.g., m6A, m5C, pseudouridine), ribose methylation, ribose hydroxylation, or regulatory aspects of the protein complexes that are directly involved in RNA modification (readers, writers, or erasers). Projects should develop tools or explore basic biological processes relevant to cells, circuits and pathways underlying mental disorders or addiction. Projects may have discovery components, but should explore novel areas of biology related to RNA modifications in the brain. Applications may also propose to develop novel approaches, tools or technologies to study the epitranscriptome in the brain. Applicants are strongly encouraged to discuss their proposed studies with Scientific/Review contact prior to submission. Application budgets are not limited but need to reflect the actual needs of the proposed project.

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

This FOA encourages basic functional genetic and genomic research in two areas: 1. functional validation to determine which candidate genes/variants/epigenetic/non-coding RNA features have an authentic role in SUDs, and 2. detailed elucidation of the molecular pathways and processes modulated by candidate genes/variants, particularly for those genes with an unanticipated role in SUDs. Applicants proposing to functionally validate genetic findings or to elucidate functional mechanisms for putative genes relevant to SUDs are encouraged to apply to this FOA. Applicants proposing high risk/high payoff exploratory/developmental research projects with limited preliminary data are encouraged to submit an R21 grant application through this FOA, while applicants proposing discrete projects with substantial preliminary data are encouraged to submit an R01 grant application using the companion FOA. Applicants proposing to discover new genes or gene variants involved in SUDs may also apply using the related NIDA PA-17-120 "Discovering Novel Targets: The Molecular Genetics of Drug Addiction and Related Co-Morbidities (R01).” Applications to this FOA can vary greatly in depth and breadth of analysis. They may investigate a single high priority epigenetic or genetic variant in detail (e.g. using gene editing approaches) or test several hundred genes/variants rapidly (e.g. using high throughput RNA knockdown). 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 period is 5 years.

Nutrition and Alcohol-Related Health Outcomes (R01)

The purpose of this FOA is to encourage applications that examine associations between nutrition and alcohol-related health outcomes in humans and in animal models. The goal is to stimulate a broad range of research on the role of nutrition in the development, prevention, and treatment of a variety of alcohol-related health outcomes including alcohol dependence and psychiatric co-morbidities, chronic and acute diseases, and organ function and damage. Study designs may include experimental studies, feeding studies, epidemiologic approaches, and prevention/intervention studies. Specific areas of research interest include, but are not limited to: Fetal alcohol, chronic disease, and cognition.
Hearing Health Care for Adults: Improving Access and Affordability (R01)

National Institutes of Health


Contact: Kelly King, 301/402-3458, kingke@nidcd.nih.gov

Solicitation number: PA-17-202

This FOA encourages on hearing loss and hearing health care in adults in support of improving access and affordability. Further research is needed to strengthen the evidence base with a goal of delivering better hearing health care outcomes in adults. This FOA encourages applications addressing the research recommendations in the 2009 NIDCD research workshop on AAHHC and the 2016 NASEM report "Hearing Health Care for Adults: Priorities for Improving Access and Affordability". Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

Mechanisms of Alcohol-associated Cancers (R01)

National Institutes of Health


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

Solicitation number: PA-17-220

This Funding Opportunity Announcement (FOA) invites applications investigating the cellular and molecular mechanisms by which alcohol increases cancer risk. Alcohol consumption is classified as carcinogenic to humans by the International Agency for Research on Cancer (IARC; 2010, 2012) and the National Toxicology Program (NTP; 2014) of the US Department of Health and Human Services. Target sites for alcohol-related carcinogenesis include the upper aerodigestive tract, breast, liver, and colon. A better understanding of the molecular basis by which alcohol increases cancer risk for certain tissues and organs could lead to improved therapeutic approaches and preventative strategies and would provide guidance on safe levels of alcohol consumption. This FOA is intended to attract applications that use comprehensive approaches to address mechanistic questions about alcohol's effect on cancer development. Genomic, proteomic, metabolomic, lipidomic techniques and systems biology approaches are welcome. Collaborations using existing surveys, repositories and genomics databases to clarify alcohol contributions to cancer development are encouraged. Study designs exploiting established preclinical cancer models for studying alcohol-related carcinogenesis are also encouraged. 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 total project period for an application submitted in response to this funding opportunity may not exceed 5 years.

Collaborative Research Projects to Enhance Applicability of Mammalian Models for Translational Research (Collab)

National Institutes of Health

https://grants.nih.gov/grants/guide/pa-files/PAR-17-244.html

Contact: Cheryl Marks, 240/276-6217, marksc@mail.nih.gov

Solicitation number: PAR-17-244

The purpose of this FOA is to encourage applications for collaborative R01 projects from multi-disciplinary teams to expand, improve, or transform the reliability and utility of mammalian cancer and tumor models for translational research. Collaborative studies are appropriate to address translational modeling research questions beyond the capacity of a single-site investigation, particularly to accommodate collaborations among sites with diverse expertise, perspectives, and contributions. With this FOA, the NCI intends to encourage submission of multidisciplinary projects devoted to demonstrating that mammalian models or their derivatives used for translational research are robust representations of human biology, are appropriate to test questions of clinical importance, and provide reliable information for patients' benefit. These practical goals contrast with the goals of many mechanistic, NCI-supported R01 projects that employ mammals, or develop and use mammalian cancer models, transplantation tumor models, or models derived from mammalian or human tissues or cells for hypothesis-testing, non-clinical research. Among many other possible endeavors, teams of applicants in response to this FOA could propose demonstrations of how to overcome translational deficiencies of mammalian oncology models, define new uses of mammalian models or their genetics for unexplored translational challenges, advance standard practices for use of translational models, test approaches to validate and credential models, or challenge current practices for how models are used translationally. The number of awards is contingent upon NIH appropriations and the submission of a sufficient number of meritorious applications. Application budgets are limited to $450K direct costs per year.
**Clinical Studies of Mental Illness Not Involving Clinical Trials (Collaborative R01)**

National Institutes of Health

[Link](https://grants.nih.gov/grants/guide/pa-files/PAR-17-256.html)

Contact: Varies with research interest.

Solicitation number: PAR-17-256

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

**Understanding Processes of Recovery in the Treatment of Alcohol Use Disorder (R01)**

National Institutes of Health


Contact: Brett Hagman, 301/443-0638, brett.hagman@nih.gov

Solicitation number: PA-17-285

The purpose of this FOA is encourage applications that seek to examine processes of recovery and relapse in the treatment of Alcohol Use Disorders. Applications high in innovation and significance are highly encouraged that address the following potential topics: 1) Defining recovery; 2) Examining new and innovative methods to examine precipitants of relapse; 3) Understanding mechanisms of mutual help and recovery; 4) Evaluating recovery systems of care; and 5) Examining processes of extended treatment for AUD. 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.

**Modeling of Infectious Disease Agent Study Research Projects (R01)**

National Institutes of Health


Contact: Veerasamy Ravichandran, 301/451-9822, veerasamy.Ravichandra@nih.gov

Solicitation number: PAR-17-267

The purpose of this FOA is to support innovative research that will develop and apply computational tools and methods for modeling interactions between infectious agents and their hosts, disease spread, prediction systems and response strategies. The models should be useful to researchers, policymakers, or public health workers who want to better understand and respond to infectious diseases. This research opportunity encourages applications from institutions/organizations that propose to provide the scientific and public health communities better resources, knowledge, and tools to improve their ability to prepare for, identify, detect, control, and prevent the spread of infectious diseases caused by naturally occurring or intentionally released pathogens, including those relevant to biodefense. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.
**Alcohol-Induced Effects on Tissue Injury and Repair (R01)**

National Institutes of Health


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

Solicitation number: PA-17-297

This FOA encourages Research Project Grant (R01) applications to study molecular and cellular mechanisms of tissue injury and repair associated with alcohol use in humans. Excessive alcohol consumption has the potential to adversely affect multiple organ systems including the liver, brain, heart, pancreas, lung, kidney, endocrine and immune systems, as well as bone and skeletal muscle. In addition, there is accumulating evidence that long term alcohol consumption is associated with reduced host capacity for recovery and repair following trauma. The mechanisms for these alcohol-induced effects on tissue injury and repair are currently not fully understood. NIAAA is especially interested in integrative research that elucidates alcohol’s effects on complex mechanisms of injury and repair that are either common or specific to each organ system. This FOA also encourages the study of alcohol’s effect on stem cells, embryonic development, and regeneration. Also encourages are studies on molecular and cellular actions of moderate alcohol consumption. A better understanding of these underlying mechanisms may provide new avenues for developing more effective and novel approaches for prognosis, diagnosis, intervention, and treatment of alcohol-induced organ damage. 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 total project period for an application submitted in response to this funding opportunity may not exceed 5 years.

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**Synthetic Biology for Engineering Applications (R01)**

National Institutes of Health


Contact: David Rampulla, 301/451-4778, david.rampulla@nih.gov

Solicitation number: PAR-17-334

This Funding Opportunity Announcement (FOA) invites applications to conduct research to advance the understanding and application of synthetic biology for human health. It will support 1) the development of innovative tools and technologies in synthetic biology and 2) their application in biomedical research and human health. An integrative research plan based on collaborations of synthetic biologists with computational scientists, cell biologists, engineers, and/or physician scientists is strongly recommended. Early stage investigators in Synthetic Biology are especially encouraged to apply.

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**Discovery of in vivo Chemical Probes for Novel Brain Targets (R01)**

National Institutes of Health


Contact: Enrique L. Michelotti, 301/443-5415, michelottiel@mail.nih.gov

Solicitation number: PAR-17-336

This Funding Opportunity Announcement (FOA) intends to support investigators who have interest and capability to join efforts for the discovery of in vivo chemical probes for novel brain targets. It is expected that applicants will have in hand the starting compounds (“validated hits”) for chemical optimization and bioassays for testing new analog compounds.

Through this FOA, NIH wishes to stimulate research in 1) discovery and development of novel, small molecules for their potential use in understanding biological processes relevant to the missions of NIMH, NEI, NIAAA, NIDA, NIA and/or NIDCD and 2) discovery and/or validation of novel, biological targets that will inform studies of brain disease mechanisms. Emphasis will be placed on projects that provide new insight into important disease-related biological targets and biological processes.
Assay development and screening for discovery of chemical probes or therapeutic agents (R01)

National Institutes of Health


Contact: Suzanne Dorry, 240/276-5922, forryscs@mail.nih.gov

Solicitation number: PAR-17-438

Through this funding opportunity announcement (FOA), NIH wishes to stimulate research in discovery and development of novel, small molecules for their potential use in studying disease treatment relevant to the missions of the participating NIH Institutes; and to generate new insight into the biology of relevant diseases and processes that have yet to be validated as important drug targets.

Stages of discovery research covered by this FOA include: 1) assay development; 2) primary screen implementation to identify initial screening hits (high throughput target-focused screens, or moderate throughput screens); 3) hit validation using a series of assays and initial medicinal chemistry inspection to prioritize the hit set.

Typical and Atypical Patterns of Language & Literacy in Dual Language Learners (R01)

National Institutes of Health


Contact: Judith A. Cooper, 301/496-5061, cooperj@mail.nih.gov

Solicitation number: PA-17-443

The purpose of this FOA is to support investigator-initiated R01 applications that will inform our understanding of the typical and atypical patterns of language and literacy development of dual language learners (DLLs) in the United States. Applicants are encouraged to take advantage of advances in the language sciences and related fields to identify and clarify specific cognitive, linguistic, neurobiological, and sociocultural factors associated with normal and impaired language and literacy acquisition in young DLL populations. Application budgets are limited to under $500K direct costs and need to reflect the actual needs of the proposed project.

The Interplay Pathways in Cancer Cell Survival and Resistance to Therapy (R01)

National Institutes of Health


Contact: Konstantin Salnikow, 240/276-6230, salnikok@mail.nih.gov

Solicitation number: PA-17-440

The purpose of this funding opportunity announcement (FOA) is to stimulate research in the interplay between cell death pathways in naive and drug resistant cancers. Regulated cell death, especially apoptosis and necroptosis, are natural barriers that restrict malignant cells from surviving and disseminating. Evasion of cell death mechanisms is one of the hallmarks of cancer contributing to tumor progression, metastases and resistance to therapy. Recent studies show that the machinery to activate different forms of cell death coexists in cells but the crosstalk of cell death pathways in cancer has not been systematically studied. Research into the intersection of cell death programs will allow for better defining markers of cell death pathway at the molecular level and offers the possibility that the specific mediators of cell survival may be inhibited and/or the mediators of cell death enhanced, driving naive and drug resistant cancer cells toward effective cell death. Application budgets are not limited but need to reflect the actual needs of the proposed project.
Addressing Health Disparities in NIDDK Diseases (R01)

This FOA invites research to understand and mitigate health disparities in the development, diagnosis, and treatment of diseases of high priority to the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). Research is encouraged in the following high priority diseases: diabetes and other endocrine and metabolic diseases; obesity; nutrition-related disorders; hepatitis C; gallbladder disease; H. Pylori infection; complications of sickle cell disease within the NIDDK mission areas; kidney diseases; urologic diseases; metabolic, gastrointestinal, hepatic, and renal complications from infection with HIV; and mechanistic research in hematologic diseases, including studies in abnormal hemoglobin synthesis.

NIH Revision Awards for Creating Virtual Consortium for Translational/Transdisciplinary Environmental Research (RFA-ES-17-002)

The purpose of the ViCTER program is to foster and promote transdisciplinary collaborations and/or translational research efforts among basic (technology and mechanism oriented), clinical (patient-oriented) and population-based researchers and other individuals with expertise relevant to environmental health who have come together in common interest around a particular environmental stressor(s) of interest. A key component of the Virtual Consortia Program is the stimulation of innovative and novel cross-disciplinary and/or translational collaborations that can be more difficult to achieve in a typical R01 application, thereby accelerating the public health impact of the research. Application budgets are limited to $300K direct cost per year and should reflect the actual needs of the proposed project. Applicants must request support for 2 or 3 years (no partial years), not to exceed the remaining number of years on the parent grant at the time of the earliest start date of the award. The parent grant must be active during the entire project period proposed in the Revision application.

NIA Academic Leadership Career Award (K07)

The objectives of the NIH Academic Leadership Career Award (K07) are to increase the pool of individuals with academic and research expertise in a specific area of biomedical research and to enhance the educational or research capacity at the grantee institution. The K07 Leadership Award: provides support for senior investigators who are interested in improving the curricula and enhancing the health-related research capacity within an academic institution. Candidates for K07 awards from the National Institute on Aging (NIA) must have (1) acknowledged scientific expertise and leadership skills and (2) sufficient research or clinical training or teaching experience in aging and geriatric research to implement a program to advance a field of aging research within the sponsoring institution. NIH will contribute up to $75K per year toward the salary of the career award recipient. The total project period may not exceed 5 years.
Small Grant Program for ORIP Special Emphasis Research Career Award (SERCA) K01 Recipients (R03)

National Institutes of Health

https://grants.nih.gov/grants/guide/pa-files/PAR-17-301.html

Contact: Bruce Fuchs, 301/402-5225, FuchsB@od.nih.gov

Solicitation number: PAR-17-301

This program provides ORIP-supported Special Emphasis Research Career Award (SERCA) K01 awardees who have completed the first two years (24 months) of their K01 award the opportunity to apply for Small Grant support. Through the use of this mechanism, ORIP is seeking to enhance the capability of ORIP SERCA K01 awardees to conduct research as they complete their transition to fully independent investigator status. The R03 mechanism supports different types of projects, including but not limited to pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology, and development of new research technology. The R03 is therefore intended to support research projects that can be achieved in a short period of time with limited resources and that provide preliminary data to support a subsequent R01 or equivalent application. A budget for direct costs of up to $150K may be requested. Application budgets should not exceed $75K in direct costs in either year. The maximum project period is two years.

AHRQ Small Research Grant Program (R03)

National Institutes of Health


Contact: Kishena Wadhwani, 301/427-1556, Kishena.Wadhwani@ahrq.hhs.gov

Solicitation number: PA-15-147

This FOA encourages Small Research Grant (R03) applications, and expresses AHRQ priority areas of interest for ongoing small research projects. The R03 grant mechanism supports different types of health services research projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. The budget limit on small project grant applications is $100k total costs (i.e., direct costs plus Facilities and Administrative (F&A) costs) for the entire project period, regardless of the length of the proposed project period.

Secondary Data Analyses to Explore NIMH Research Domain Criteria (R03)

National Institutes of Health

https://grants.nih.gov/grants/guide/pa-files/PAR-17-158.html - Section III. Eligibility

Contact: Sarah Morris, 301/443-9233, sarah.morris@nih.gov

Solicitation number: PAR-17-158

The primary goals of this FOA are to expedite the work of assessing the validity of the RDoC constructs and to stimulate new hypotheses and pilot data for future RDoC projects. It provides an opportunity for investigators to explore RDoC constructs and conceptualizations without investing in new data collection and promotes the development of new collaborative relationships among investigators. Projects proposed under this announcement could involve, but are not limited to, the following approaches: Merging of similar datasets from different psychiatric patient groups to allow cross-diagnostic, dimensional analyses; Incorporating data from participants who do not fully meet existing criteria for categorical diagnoses of mental disorders; and/or Combining or re-aligning datasets that include a range of participant ages to examine developmental factors related to the RDoC constructs. Investigators are encouraged to propose the analyses for which they have the most appropriate data. Datasets that include measures that align with RDoC constructs and include more than one unit of analysis (genes, molecules, neural circuits, physiology, behavior, and/or self-report) are optimal. No more than $50K in direct costs may be requested in any single year. The scope of the proposed project should determine the project period. The total project period may not exceed 2 years.
**Hearing Health Care for Adults: Improving Access and Affordability (R21)**

National Institutes of Health  

Contact: Kelly King, 301/402-3458, kingke@nidcd.nih.gov

Solicitation number: PA-17-227

This FOA encourages exploratory and developmental research applications on hearing loss and hearing health care in adults in support of improving access and affordability. Further research is needed to strengthen the evidence base with a goal of delivering better hearing health care outcomes in adults. This FOA encourages applications addressing the research recommendations in the 2009 NIDCD research workshop on AAHHC and the 2016 NASEM report "Hearing Health Care for Adults: Priorities for Improving Access and Affordability". This FOA will utilize the Exploratory/Developmental (R21) mechanism. The R21 activity code is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual stages of these projects. These studies may lead to a breakthrough in a particular area, or to the development of novel methodologies, models, or applications that could have a major impact on studies of hearing health care. Pilot data are not required for the R21. A companion FOA for R01 projects (PA-xxx) encourages applications that will focus on testing hypotheses in projects of larger scope and duration. Direct Costs maximum of $275K over two years with no more than $200K direct costs in either year. The maximum project period is 2 years.

**NICHD Exploratory/Developmental Research Grant (R21)**

National Institutes of Health  

Contact: NICHDReferral@mail.nih.gov

Solicitation number: PA-17-259

This program supports exploratory and developmental research projects that fall within the NICHD mission by providing support for the early and conceptual stages of these projects. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel techniques, agents, methodologies, models, or applications that could have a major impact on a field of biomedical, behavioral, or clinical research. This program 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. Direct costs are limited to $275K over a two-year period, with no more than $200K in direct costs allowed in any single year. The maximum project period is two years.

**Secondary Analyses in Obesity, Diabetes and Digestive and Kidney Diseases (R21)**

National Institutes of Health  

Contact: Aynur Unalp-Arida, 301/594-8879, aynur.unalp-arida@nih.gov

Solicitation number: PA-15-169

This FOA encourages Exploratory/Developmental Research Grants (R21) that propose to support (a) secondary analyses of data related to the epidemiology of disease areas of NIDDK; (b) important and/or innovative hypotheses explored through analysis of existing data sets including administrative health care services, epidemiological studies, and multicenter clinical trials; (c) secondary analyses designed to inform and support subsequent applications for individual research awards; and (d) rapid analyses of new databases and experimental modules of application program interfaces to inform the design and content of future clinical studies. Research that employs analytic techniques to demonstrate or promote methodological advances in patient oriented and epidemiologic research is also of interest. International comparative analyses are encouraged. Applications that are innovative and high risk with the likelihood for high impact are especially encouraged. 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. Application budgets need to reflect the actual needs of the proposed project. The total project period may not exceed 2 years.
NINDS Exploratory Neuroscience Research Grant

National Institutes of Health


Contact:

Solicitation number:

The NINDS Exploratory Neuroscience Research Grant program supports exploratory and innovative research projects, which fall within the mission of the NINDS. Awards will provide support for the early and conceptual stages of projects. These studies often assess the feasibility of a novel avenue of investigation and involve considerable risk, but have the potential to bring about breakthroughs in the understanding of important areas of neuroscience, or to the development of novel techniques, agents, methodologies, or models, of high value to the neuroscience community.

Small Grants for New Investigators to Promote Diversity in Health-Related Research (R21)

National Institutes of Health


Contact: Salina P. Waddy, 301-594-7608, SmallGrant4Diversity@niddk.nih.gov

Solicitation number: PAR-18-102

The purpose of this Funding Opportunity Announcement (FOA) is to provide support for New Investigators from backgrounds nationally underrepresented in biomedical and behavioral research to conduct small research projects in the scientific mission areas of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The R21 is intended to support small research projects that can be carried out in a short period of time with limited resources and seeks to facilitate the transition to research independence of New Investigators from backgrounds underrepresented in the biomedical and behavioral sciences. The R21 grant mechanism supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. The direct costs are limited to $125k per year. The maximum project period may not exceed three years.

Integrative Research on Polysubstance Abuse and Addiction (R21)

National Institutes of Health


Contact: Shelley Su, 301-402-3869, shelley.su@nih.gov

Solicitation number: PAR-18-084

This Funding Opportunity Announcement (FOA) is supported by Collaborative Research on Addiction (CRAN) at the National Institutes of Health (NIH), a trans-NIH partnership composed of the National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Institute on Drug Abuse (NIDA), and the National Cancer Institute (NCI). The intent of this FOA is two-fold: (1) characterize how the neurobiological alterations, associated behaviors, and public health consequences arising from polysubstance use differ from, or are similar to, those observed in single drug use; (2) promote integrative polysubstance research along a translational pipeline, consisting of basic science research in animals, human-based laboratory investigations, and epidemiological studies. These dual objectives will be accomplished with a Phased Innovation (R21/R33) mechanism, where polysubstance research can occur in any of these translational stages during the R21 phase and these findings will be rapidly back- or forward-integrated into another stage during the R33 phase, allowing for bi-directional research exchange. For the R21 phase, the combined budget for direct costs during the two-year project period may not exceed $275k with no more than $200k requested in a single year. For the R33 phase, the direct costs should not exceed $500k per year. The project period is limited to 2 years for the R21 phase and up to 3 years for the R33 phase. The total project period may not exceed 5 years.
Summer Research Education Experience Programs (R25)

National Institutes of Health


Contact: Judith Arroyo, 301/402-0717, jarroyo@mail.nih.gov

Solicitation number: PAR-15-184

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this R25 program is to support educational activities that foster a better understanding of biomedical, behavioral and clinical research and its implications. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Research Experiences for high school, undergraduate and science teachers during the summer academic break. The maximum award is $100K per year for up to five 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.

Research To Address Sleep Disorders in the Context of Medical Rehabilitation (R01)

National Institutes of Health


Contact: Mary Michel, 301/496-5289, michelm1@mail.nih.gov

Solicitation number: PAR-17-163

Patients with many disabilities report problems sleeping, but specific sleep disorders are often not diagnosed. Because sleep affects many physiological and behavioral parameters—depression, anxiety, pain, cancer, cardiovascular changes, immune function—sleep disorders should be diagnosed and appropriately treated to maximize benefit of rehabilitation. Research is needed on ways to best approach this complexity in the context of medical rehabilitation for a primary, non-sleep disorder. Disturbed sleep has many manifestations and sleep disturbances are described as components of disabling conditions—neuromuscular, neurodegenerative, and cardiovascular disorders; CNS trauma and stroke; neoplastic disease and its treatment; and primary sleep disorders are considered risk factors for many chronic diseases. These conditions relating to sleep disturbance likely affect the success or failure of rehabilitation in a variety of fields. Application budgets are limited $499,999 or less direct costs per FY and 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.
Human-Animal Interaction (HAI) Research (R01)

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.

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.
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.

3/1/2018 Application
6/7/2018 Application
10/3/2018 Application
3/1/2019 Application
6/7/2019 Application
10/3/2019 Application

Academic-Industrial Partnerships to Translate and Validate in vivo Cancer Imaging Systems (R01)

National Institutes of Health


Contact: Houston Baker, 240/276-5908, bakerhou@mail.nih.gov

Solicitation number: PAR-17-093

The purpose of this FOA is to stimulate translation of scientific discoveries and engineering developments in imaging or spectroscopic technologies into methods or tools that address problems in cancer biology, risk of cancer development, diagnosis, treatment, and/or disease status. A distinguishing feature of each application will be formation of an academic-industrial partnership, which is a strategic alliance of investigators in academic, industrial, and any other entities who work together as partners to identify and translate a technological solution or mitigation of a cancer-related problem. The goals for proposed technologies are imaging applications in clinical trials, clinical research, non-clinical research, and/or patient care. Among other possibilities, they may include pre-clinical imaging investigations or investigations that combine patient specimens and pre-clinical methods, or optimizations of methods across different commercial platforms, sites, or time. The intent of the FOA is to encourage investigators to assemble a team with strengths and resources sufficient to achieve the proposed translational goals. Therefore, a pre-requisite application feature is formation of a team that includes at least one academic investigator and one investigator from an industrial organization among key team members. The level of participation and budget details are expected to vary among the partners as necessary to achieve the specific aims proposed. Investigator partnerships have the discretion to set effort levels and apportion budget according to the timing and other project requirements at each research step. This FOA is not intended to support commercial production, basic research projects, or clinical studies that lack translation as their primary motivation. The maximum project period is 5 years. Application budgets are not limited but need to reflect the actual needs of the proposed project.
Mechanistic Ancillary Studies to Ongoing Intervventional 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.

Mechanisms of Disparities in Chronic Liver Diseases and Cancer (R01)

National Institutes of Health


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

Solicitation number: PAR-17-151

The purpose of this FOA is to support multidisciplinary research to understand the underlying social, cultural, clinical, environmental or biological factors responsible for the increase in chronic liver diseases and cancer and the mechanisms that explain the documented liver cancer disparities in the US. Hepatocellular carcinoma (HCC) is the most common type of liver cancer and the most relevant within the United States for the purpose of this FOA. Projects should include a focus on one or more NIH-designated health disparity populations in the United States, which include Blacks/African Americans, Hispanics/Latinos, American Indians/Alaska Natives, Asian Americans, Native Hawaiians and other Pacific Islanders, socioeconomically disadvantaged populations, sexual and gender minorities and underserved rural populations. For health disparity populations with a significant proportion of immigrants, comparison of health factors between the U.S. and country of origin, length of stay may be considered when appropriate. Projects are strongly encouraged to involve collaborations, where appropriate, among relevant stakeholders in U.S. health disparity population groups, such as researchers, community organizations, clinicians, health systems, public health organizations, consumer advocacy groups, and faith-based organizations. As appropriate for the research questions posed, inclusion of key community members in the conceptualization, planning and implementation of the research is encouraged (but not required) to generate better-informed hypotheses and enhance the translation of the research results into practice. 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.
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 biologies 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.

International Research Scientist Development Award (IRSDA) (K01)

National Institutes of Health


Contact: Christine Jessup, 301/496-1653, Christine.Jessup@nih.gov

Solicitation number: PAR-17-002

This FOA invites applications from early-career investigators from any health-related discipline who propose career development activities and a research project that is relevant to the health priorities of the LMIC under the mentorship of LMIC and U.S. mentors. The objective of the IRSDA program is to prepare qualified advanced postdoctoral research scientists and recently-appointed junior faculty (see Eligible Individuals) for research careers that will have a significant impact on the health-related research needs of LMICs. The award will provide salary and research project support for a sustained period of “protected time” (three to five years) for intensive research career development, under the guidance of experienced U.S.-based and LMIC-based mentors, in any health-related discipline that is relevant to the health priorities of the LMIC. Award budgets are composed of salary and other program-related expenses, as described. The total project period should be a minimum of 3 years and may not exceed 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.
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 processes 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.
Ongoing

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

National Science Foundation


Contact: Vasant Honavar, vhonavar@nsf.gov

Solicitation number: NSF 13-093

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

Ongoing

**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](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.

Ongoing

**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

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.

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

Solicitation number: NSF 16-550

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

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).
Condensed Matter and Materials Theory (CMMT)

National Science Foundation


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

Solicitation number: NSF 16-596

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.

American National Election Studies Competition (ANES) - Limited Submission

National Science Foundation


Contact: Brian D. Humes, 703/292-7284, bhumes@nsf.gov

Solicitation number: NSF 18-519

The mission of the ANES is to inform explanations of election outcomes by providing data that support rich hypothesis testing, maximize methodological excellence, measure many variables, and promote comparisons across people, contexts, and time. The ANES serves this mission by providing researchers with a view of the political world through the eyes of ordinary citizens. The Political Science Program in the Directorate for Social, Behavioral and Economic Sciences expects to make two awards for the 2020 Presidential election cycle with the award to run from fiscal years 2018 to 2021. We anticipate that NSF will make two awards totaling no more than $11.5 million over four years. One will be for the traditional face-to-face survey. The second will be for a web-based survey. While these will be independent awards, the two awardees will be expected to work closely together. The expected start date is July 2018.

Industry-University Cooperative Research Centers Program (IUCRC)

National Science Foundation


Contact: Raffaella Montelli, 703/292-2421, rmontell@nsf.gov

Solicitation number: NSF 17-516

The Industry-University Cooperative Research Centers (IUCRC) program develops long-term partnerships among industry, academe, and government. The Centers are catalyzed by an investment from the National Science Foundation (NSF) and are primarily supported by industry Center members, with NSF taking a supporting role in the development and evolution of the Center. Each Center is established to conduct research that is of interest to both the industry members and the Center faculty. An IUCRC contributes to the nation’s research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an IUCRC uses international collaborations to advance these goals within the global context. We anticipate that individual award sizes will vary depending on the scope of the project, but that the maximum award size will be $600K in total for a three-year award.
Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program) - Limited Submission

National Science Foundation


Contact: NSF-EHR-HSI@ NSF.gov

Solicitation number: NSF 18-524

Projects supported by the HSI Program are expected to generate new knowledge about how to enhance undergraduate STEM education that results in an increase in retention and graduation rates of undergraduate students pursuing degrees in STEM fields at HSIs. The HSI Program is particularly interested in developing new knowledge about successful advancement of undergraduates at HSIs through critical transitions, including the transition from lower-division to upper-division coursework. The HSI Program also encourages projects that develop mutually beneficial partnerships that build faculty capacity and student opportunities to conduct research or STEM education research at HSIs. These partnerships can be between academic institutions and/or between academic institutions and national laboratories, industry, or non-profit organizations. In addition, the HSI Program seeks to build capacity at HSIs that typically do not receive high levels of NSF grant funding. The HSI Program will fund one Resource Hub. The Resource Hub is expected to support the needs of HSIs with little or no prior NSF funding, such as assistance with proposal writing and financial compliance. In addition, the Resource Hub will facilitate networking and professional development that build and strengthen collaborations among HSIs. There are two tracks for this competition: 1) Track 1 - Building Capacity (Award size: $500,000 to $1,500,000); 2) Track 2 - HSIs New To NSF (Award size: up to $250,000). Institutions may also submit a proposal to be a Resource Hub (Award size: up to $3,000,000).

CISE Research Infrastructure (CRI) 2017 - Limited Submission

National Science Foundation


Contact: Harriet G. Taylor, 703/292-8950, htaylor@nsf.gov

Solicitation number: NSF 17-581

With its CISE Research Infrastructure (CRI) program, CISE drives discovery and learning in the core CISE disciplines covered by the three participating CISE divisions through support for the creation and enhancement of world-class research infrastructure that will enable focused research agendas in computer science. Each Institutional Infrastructure (II) award supports the creation of new (II-NEW) CISE research infrastructure or the enhancement (II-EN) of existing CISE research infrastructure. The proposed research infrastructure must enable compelling new research opportunities for the proposing PI or team of PIs and associated students and collaborators (i.e., for individuals at the awardee and collaborating institutions). II proposals involving multiple investigators from one or more departments and/or institutions are welcome. Projects must include substantial involvement of CISE researchers and enable projects with a clear research focus related to the core CISE disciplines. II proposals that are led by or include 2-year, predominantly undergraduate, and/or minority-serving institutions are especially encouraged. II proposals may request up to $1 million total for project durations not to exceed 3 years.

Law & Social Sciences (LSS)

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


Contact: Helena Silverstein, 703/292-7023, hsilvers@nsf.gov

Solicitation number: NSF 15-514

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

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


Contact: Harriet G. Taylor, 703/292-8950, htaylor@nsf.gov

Solicitation number: NSF 15-590

CRI drives discovery and learning in the computing disciplines by supporting the creation, enhancement, and operation of world-class computing research infrastructure. The CRI program supports two classes of awards. Institutional Infrastructure (II) awards support the creation of new computing research infrastructure or the enhancement of existing computing research infrastructure and will be made in the $200K to $750K range. Community Infrastructure (CI) awards support the planning for computing research infrastructure, the creation of new computing infrastructure, or the enhancement of existing computing research infrastructure and will be made in the $1M to $2.5M range. The majority of the Community Infrastructure Planning (CI-P) awards will be made in the $50k - $100k range.

International Research Experiences for Students (IRES)

National Science Foundation


Contact: Maija M. Kukla, (703) 292-4940, mkukla@nsf.gov

Solicitation number: NSF 18-505

This program supports international research and research-related activities for U.S. science and engineering students. The IRES program contributes to development of a diverse, globally-engaged workforce with world-class skills. IRES focuses on active research participation by undergraduate or graduate students in high quality international research, education and professional development experiences in NSF-funded research areas. This solicitation features three mechanisms; proposers are required to select one of the following tracks to submit their proposal:

Track I focuses on the development of world-class research skills in international cohort experiences (up to $400k). Track II is dedicated to targeted, intensive learning and training opportunities that leverage international knowledge at the frontiers of research (up to $150k). Track III calls for U.S. institutional partnerships and coalitions to develop and evaluate innovative models for high-impact, large-scale international research and professional development experiences for graduate students, as individuals or groups (up to $1M).

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.
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.

**Partnerships for Research and Education in Materials (PREM) - Limited Submission**

This program aims to enable, build, and grow partnerships between minority-serving institutions and DMR-supported centers and/or facilities to increase recruitment, retention and degree attainment (which defines the PREM pathway) by members of those groups most underrepresented in materials research, and at the same time support excellent research and education endeavors that strengthen such partnerships. in FY 2018. Awards are anticipated to be $300k to $700k per year for up to 6 years pending the availability of funds and receipt of competitive proposals.

**Campus Cyberinfrastructure (CC*)**

The Campus Cyberinfrastructure (CC*) program invests in coordinated campus-level networking improvements, innovation, integration, and engineering for science applications and distributed research projects. Learning and workforce development (LWD) in cyberinfrastructure is explicitly addressed in the program. Science-driven requirements are the primary motivation for any proposed activity. CC* awards will be supported in four program areas: 1) Data Driven Networking Infrastructure for the Campus and Researcher awards will be supported at up to $500,000 total for up to 2 years; 2) Network Design and Implementation for Small Institutions awards will be supported at up to $750,000 total for up to 2 years; 3) Network Integration and Applied Innovation awards will be supported at up to $1,000,000 total for up to 2 years; and 4) Network Performance Engineering and Outreach awards will be supported at up to $3,500,000 total for up to 4 years.
Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)

National Science Foundation
Contact: William J. Hoese, 703/292-8638, whoese@nsf.gov
Solicitation number: NSF 18-510

The goal of the RCN program is to advance a field or create new directions in research or education by supporting groups of investigators to communicate and coordinate their research, training, and educational activities across disciplinary, organizational, geographic, and international boundaries. The RCN-UBE program originated as a unique RCN track to “catalyze positive changes in biology undergraduate education” (NSF 08-035) and is now supported by the collaborative efforts of the Directorate for Biological Sciences (BIO) and the Directorate for Education and Human Resources (EHR). It has been responsive to the national movement to revolutionize undergraduate learning and teaching in the biological sciences as described in the “Vision and Change in Undergraduate Biology Education” report. The RCN-UBE program seeks to improve undergraduate biology in different areas by leveraging the power of a collaborative network. The theme or focus of an RCN-UBE proposal can be on any topic likely to advance the goal of enhancing undergraduate biology education. Collectively, the program has contributed to developing and disseminating educational research resources and modules, to forging of new collaborations, and to sharing of best practices and ideas for scalability and sustainability of activities. These efforts have involved a large cadre of faculty, students, and other stakeholders. Proposed networking activities directed to the RCN-UBE program should focus on a theme to give coherence to the collaboration.

Partnerships for Innovation (PFI) - Limited Submission

National Science Foundation
Contact: Prakash Balan, 703/292-7795, jsoriano@nsf.gov
Solicitation number: NSF 18-511

The goals of the PFI program are: (1) identifying and supporting Foundation-sponsored research and technologies that have the potential for accelerated commercialization; (2) supporting prior or current Foundation-sponsored researchers, institutions of higher education, and non-profit organizations that partner with an institution of higher education to undertake proof-of-concept work, including the development of technology prototypes that are derived from NSF-funded research and have potential market value; (3) promoting sustainable partnerships between Foundation-funded institutions, industry, and other organizations within academia and the private sector with the purpose of accelerating the transfer of technology; (4) developing multi-disciplinary innovation ecosystems which involve and are responsive to the specific needs of academia and industry; (5) catalyzing professional development activities, mentoring, and best practices in entrepreneurship and technology translation for faculty, students and researchers; and (6) expanding the participation of women and individuals from underrepresented groups in innovation, technology translation, and entrepreneurship.

Two tracks are available for requesting funding from NSF through the PFI Program:
Partnerships for Innovation - Technology Translation (PFI-TT): This proposal track is aimed at supporting individual researchers seeking to develop new technological innovations based on prior NSF-funded basic research (up to $200k for 18 months)
Partnerships for Innovation – Research Partnerships (PFI-RP): This proposal track seeks to accelerate the translation and transfer of research discoveries into competitive technologies that address societal needs through highly collaborative, multi-organization partnerships (up to $750k over 36 months).
Enabling Discovery through GEnomic Tools (EDGE)

National Science Foundation


Contact: varies

Solicitation number: NSF 18-506

EDGE is designed to provide support for research addressing current impediments to research progress in organismal biology. In particular, the ability to directly test gene function is essential to improve understanding of the genomes-to-phenomes relationship. EDGE projects should focus on development of functional genomic tools, approaches, and associated infrastructure to enable direct tests of hypotheses about gene function in diverse organisms for which such tools and infrastructure are presently unavailable.

EDGE proposals must include training and rapid dissemination plans enabling larger communities of investigators to utilize the newly-developed tools, thereby catalyzing an increase in the capacity of research communities to test cause-and-effect hypotheses about genes and phenotypes in organisms for which such tools and infrastructure are presently lacking. EDGE proposal budget requests may be for up to $2M to support up to a three-year project plan.

Major Research Instrumentation Program (MRI) - Limited Submission

National Science Foundation


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

Solicitation number: NSF 18-513

The goal of MRI is to increase access to shared-use/multi-user instrumentation for scientific and engineering research and research training. MRI is intended to be a capacity-building program that builds research capabilities across diverse institution types (institutions of higher education and not-for-profit scientific/engineering research organizations). MRI advances the National interest by providing U.S. organizations with instrumentation that opens new opportunities to advance the frontiers in science and engineering research and research training. The MRI Program provides for state-of-the-art instruments through acquisition from vendors and development of next-generation research instruments that advance the state-of-the-art in science and engineering research. For development proposals the Program seeks to leverage the strengths of private sector partners to build instrument development capacity at MRI submission-eligible organizations. Any MRI proposal may request support for either the acquisition or development of a research instrument. An institution may submit proposals in the following Tracks:

Track 1: MRI proposals with requests greater than or equal to $100,0001 and less than $1,000,000 (limit: 2 proposals per institution)

Track 2: MRI proposals with requests greater than or equal to $1,000,000 up to and including $4,000,000 (limit: 1 proposal per institution)

National Science Foundation Research Traineeship (NRT) Program - Limited Submission

National Science Foundation


Contact: Laura B. Regassa, 703/292-2343, lregassa@nsf.gov

Solicitation number: NSF 18-507

This program is designed to encourage the development and implementation of bold, new, and potentially transformative models for STEM graduate education training. The NRT program seeks proposals that explore ways for graduate students in research-based master’s and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The program is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, and aligned with changing workforce and research needs. For FY2018, proposals are requested in any interdisciplinary research theme of national priority, with special emphasis on two high priority areas: (1) Harnessing the Data Revolution (HDR) and (2) Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS). The NRT program addresses workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education. Strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, informal science centers, and academic partners are encouraged. NRT Awards (10-12 anticipated in FY2018) are expected to be up to five (5) years in duration with a total budget up to $3M.
**Geography and Spatial Sciences Program (GSS)**

National Science Foundation


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

Solicitation number: NS 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.

**Earth Sciences: Laboratory Technician Support (EAR/LTS)**

National Science Foundation


Contact: Russell Kelz, 703/292-4747, rkelz@nsf.gov

Solicitation number: NSF 17-504

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). Under this solicitation EAR/IF will consider proposals for Laboratory Technician Support to provide for optimal and efficient operation of advanced instrumentation, analytical protocol development, and user training for Earth science research instrumentation.

**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.

**EarthScope**

National Science Foundation, Geosciences (GEO)


Contact: Gregory Anderson, 703/292-4693, greander@nsf.gov

Solicitation number: NSF 17-577

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

The Algorithms for Modern Power Systems (AMPS) program will support research projects to develop the next generation of mathematical and statistical algorithms for improvement of the security, reliability, and efficiency of the modern power grid. The program is a partnership between the Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF) and the Office of Electricity Delivery & Energy Reliability (OE) at the U.S. Department of Energy (DOE).

Contact: Leland Jameson, 703/292-4883, ljameson@nsf.gov
Solicitation number: NSF 17-521

NSF/CASIS Collaboration on Tissue Engineering on the International Space Station to Benefit Life on Earth

The Division of Chemical, Bioengineering and Environmental Transport (CBET) in the Engineering Directorate of the National Science Foundation (NSF) is partnering with The Center for the Advancement of Science in Space (CASIS) to solicit research projects in the general field of tissue engineering that can utilize the International Space Station (ISS) National Lab to conduct research that will benefit life on Earth. U.S. entities including academic institutions, non-profit independent research labs and academic-commercial teams are eligible to submit proposals.

Contact: Michele Grimm, 703/292-4641, mgrimnl@nsf.gov
Solicitation number: NSF 18-514

Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining)

This solicitation calls for developing innovative, scalable training and education programs to address the emerging needs and unresolved bottlenecks in scientific and engineering research workforce development, from the postsecondary level to active researchers. The resultant training and education programs, spanning targeted, multidisciplinary communities, will lead to transformative changes in the state of workforce preparedness for advanced CI-enabled research in the short and long terms. As part of this investment, this solicitation seeks to broaden CI access and adoption by (i) increasing or deepening accessibility of methods and resources of advanced CI and of computational and data science and engineering by a wide range of scientific disciplines and institutions with lower levels of CI adoption to date; and (ii) harnessing the capabilities of larger segments of diverse underrepresented groups. Proposals from, and in partnership with, the aforementioned communities are especially encouraged. Each CyberTraining award shall range from $300k to $500k per award and shall be up to 3 years in duration.

Contact: Sushil K. Prasad, (703) 292-5059, sprasad@nsf.gov
Solicitation number: NSF 18-516
National Robotics Initiative 2.0: Ubiquitous Collaborative Robots (NRI-2.0)

National Science Foundation

Contact: varies

Solicitation number: NSF 18-518

The NRI-2.0 program builds upon the original National Robotics Initiative (NRI) program to support fundamental research in the United States that will accelerate the development and use of collaborative robots (co-robots) that work beside or cooperatively with people. The focus of the NRI-2.0 program is on ubiquity, which in this context means seamless integration of co-robots to assist humans in every aspect of life. The program supports four main research thrusts that are envisioned to advance the goal of ubiquitous co-robots: scalability, customizability, lowering barriers to entry, and societal impact. Foundational projects will range from $250k to $750k in total costs for up to three years. Integrative projects will range from $500,000 to $1.5M in total costs for up to four years.

2/20/2018 Full Proposal
2/5/2019 Full Proposal

Algorithms for Threat Detection (ATD)

National Science Foundation

Contact: Leland Jameson, 703/292-4883, ljameson@nsf.gov

Solicitation number: NSF 17-510

The Algorithms for Threat Detection (ATD) program will support research projects to develop the next generation of mathematical and statistical algorithms for analysis of large spatiotemporal datasets with application to quantitative models of human dynamics. The program is a partnership between the Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF) and the National Geospatial Intelligence Agency (NGA). This program seeks ambitious and creative research proposals from individual investigators and collaborative groups in the mathematical sciences community. Research collaborations among mathematical scientists and social, behavioral, and economic scientists are encouraged. Proposal budgets should include funds for travel to an annual PI meeting to be held in the Washington, DC area. Proposal titles should begin with the four characters "ATD:" Estimated number of awards and funding amounts are subject to the availability of funds.

2/20/2018 Full Proposal
2/5/2019 Full Proposal

National Robotics Initiative 2.0: Ubiquitous Collaborative Robots (NRI-2.0)

National Science Foundation

Contact: varies

Solicitation number: NSF 18-518

The goal of the NRI-2.0 program is to support fundamental research that will accelerate the development and use of robots in the United States that work beside or cooperatively with people. Innovative robotics research and applications emphasizing the realization of ubiquitous co-robots is supported by multiple agencies of the federal government including the National Science Foundation (NSF), U.S. Department of Agriculture (USDA), U.S. Department of Energy (DOE), and U.S. Department of Defense (DOD). To achieve this goal, the NRI-2.0 program focuses on research into innovative computational algorithms, designs, modeling, and analytical techniques in four main areas critical to achieving ubiquitous co-robots: scalability, customizability, lowering barriers to entry, and societal impact. USDA/NIFA will consider projects comprising one or more investigators with budgets ranging from $150k to $300k per year in total costs (direct plus indirect) averaged over the duration of the project, with durations of two to four years. Projects exceeding $1.2M in total costs may be accepted by USDA/NIFA with prior approval. DOE will consider projects comprising one or more investigators with budgets ranging from approximately $100k to $250k per year in total costs (direct and indirect) averaged over the duration of the project, with durations of one to three years. DOD will consider projects comprising one or more investigators with budgets ranging from $100k to $400k per year in total costs (direct plus indirect) averaged over the duration of the project, with durations of two to four years. It is expected that the bulk of awards will be made at the lower end of the range.
PFE: Research Initiation in Engineering Formation (PFE: RIEF)

Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for the process of professional formation of future engineers. As such, engineering faculty are in a unique position to help address critical challenges in engineering formation. The Professional Formation of Engineers: Research Initiation in Engineering Formation (PFE: RIEF) program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the social and/or learning sciences to address difficult, boundary-spanning problems in the professional formation of engineers.

Dimensions of Biodiversity FY18

This campaign promotes novel integrative approaches to fill the most substantial gaps in our understanding of the diversity of life on Earth. It takes a broad view of biodiversity, and focuses on the intersection of genetic, phylogenetic, and functional dimensions of biodiversity. Successful proposals must integrate these three dimensions to understand interactions and feedbacks among them. While this focus complements several core programs in BIO, it differs by requiring that multiple dimensions of biodiversity be addressed simultaneously, in novel ways, to understand their synergistic roles in critical ecological and evolutionary processes, especially pertaining to the mechanisms driving the origin, maintenance, and functional roles of biodiversity.

Resource Implementations for Data Intensive Research in the Social, Behavioral and Economic Sciences (RIDIR)

As part of NSF’s Harnessing the Data Revolution (HDR), the Directorate for Social, Behavioral and Economic Sciences (SBE) seeks to develop user-friendly large-scale next-generation data resources and relevant analytic techniques to advance fundamental research in SBE areas of study. Successful proposals will, within the financial resources provided by the award, construct such databases and/or relevant analytic techniques and produce a finished product that will enable new types of data-intensive research. The databases or techniques should have significant impacts, either across multiple fields or within broad disciplinary areas, by enabling new types of data-intensive research in the SBE sciences.
Dimensions of Biodiversity FY2018

National Science Foundation


Contact: Leslie J. Rissier, (703) 292-4628, Dimensions@nsf.gov

Solicitation number: NSF 18-512

The Dimensions of Biodiversity program currently targets three fundamental dimensions of biodiversity - genetic diversity, phylogenetic diversity, and functional diversity. Integration across these three dimensions is an essential aspect of all proposals. Genetic diversity includes genetic, genomic, transcriptomic, and proteomic diversity. Phylogenetic diversity refers to reconstructing evolutionary relationships among lineages at and above the level of the population and how these relationships inform taxonomic understanding. Functional diversity refers to the roles that organisms play within populations, communities, and ecosystems, including the regulation of ecological processes and the role of key innovations in the generation and maintenance of biodiversity across spatial and temporal scales. Investigators must study the dynamic relationships among these three dimensions and their associated feedbacks (Fig. 1), and seek to understand how these relationships and feedbacks change and evolve over time. Because a primary goal of the program is to describe the largest unknown mechanisms driving the origin, maintenance, and functional roles of biodiversity, proposals that have the potential to fill large gaps in our understanding of biodiversity are particularly encouraged. Research awards will be up to five years duration and up to a total of $2M for both individual and collaborative projects.

Critical Resilient Interdependent Infrastructure Systems and Processes 2.0 FY18 (CRISP 2.0)

National Science Foundation


Contact: varies

Solicitation number: NSF 18-523

The goals of the CRISP 2.0 solicitation are twofold: to significantly enhance the understanding, design and operation of interdependent critical infrastructure systems and processes in support of continued flow of essential goods and services despite disruptions and failures from natural, technological or human-induced causes; and to provide opportunities to innovate in the new science of integrative system design in ICIs with emphasis on the essential role of humans in the system. Two categories of awards are anticipated for this solicitation. Type 1 awards are intended for smaller-scale research that may focus on (but not limited to) early concept theoretical development that may lead to a large-scale project in the future or deep diving of one or more critical aspects of interdependent infrastructures. Projects will be of 2-3 years in duration with a maximum total budget of $750,000. Type 2 awards are intended to support larger-scale studies, and may include activities similar to those undertaken in Type 1 awards, but only through an integrated approach in pursuit of broader project goals. Projects will be of 3-4 years in duration with a total budget between $750,001 to $2 million.

Private/Nonprofit Agencies

Surdna Foundation Grants

Surdna Foundation

http://www.surdna.org/what-we-fund/funding-overview.html

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

Solicitation number:

The Surdna Foundation 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.
Ongoing

**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.

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Ongoing

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

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Ongoing

**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.

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Ongoing

**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**

National Geographic Society


Contact: waitt@ngs.org

Solicitation number:

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

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**Public Welfare Grants**

Public Welfare Foundation


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

Solicitation number:

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.

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**Committee for Research and Exploration Grant**

National Geographic Society


Contact: cre@ngs.org

Solicitation number:

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

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**FSSS Grants-in-Aid Program**

The Foundation for the Scientific Study of Sexuality (FSSS)


Contact: aletk001@umn.edu

Solicitation number:

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

The Energy Foundation

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


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](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

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

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 & Writers

http://www.pw.org/content/funding_readingsworkshops

Contact: 310/481-7195

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

**Swiss International Short Visits**
Swiss National Science Foundation
Contact: international@snf.ch
Solicitation number:

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

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Ongoing

**Humanities Program Grants**
The Gladys Krieble Delmas Foundation
[http://delmas.org/programs/](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.

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Ongoing

**Brain and Behavior Research Grants**
Brain & Behavior Research Foundation
Contact: grants@bbrfoundation.org
Solicitation number:

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

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Ongoing

**Documentary Film Program**
Sundance Institute
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)

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

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 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

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

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.

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
Solicitation number:
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.

Whitehall Foundation Research Grants
Whitehall Foundation
http://www.whitehall.org/grants/
Contact: 561/655-4474, email@whitehall.org
Solicitation number:
Research grants are available to established scientists of all ages working at accredited institutions in the United States. Applications will be judged on the scientific merit and the innovative aspects of the proposal as well as on the competence of the applicant. Research grants of up to three years will be provided. Research grants can reach up to $75K 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.
Resident Scholars Program

UC MEXUS

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

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

Solicitation number:

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.