**Campus and Agency News**

**CNSI SEED-TECH GRANT PROPOSALS DUE 8/31**

The application process for the CNSI SEED-TECH grants is open; the application deadline is August 31.

The CNSI SEED-TECH Grants provide faculty with funding to support a demonstration of commercial value and/or commercial viability for UCSB technology, and to develop the technology towards a marketable outcome. Ultimately the SEED-TECH grants should enable one or more of the following:

- A spin-out company
- A new or expanded corporate sponsored research agreement
- A licensing deal for intellectual property

These awards can support direct costs of up to $50,000 over a period of 12 months. Up to 2 grants may be awarded in this round. Progress will be assessed via a combination of meetings and written reports.

**URL:** [http://www.cnsi.ucsb.edu/resources/funding/seed-tech-grants](http://www.cnsi.ucsb.edu/resources/funding/seed-tech-grants)

**UCSB SAGE JUNIOR FELLOWS PROGRAM DUE 9/1**

This unique fellowship supports the intellectual development of early-career UCSB postdoctoral scholars across the University. Fellows will form a group bound by a common pursuit: to understand the mind and brain through a variety of complementary disciplines. Up to 5 Junior Fellows will be selected in the inaugural year of the program. Fellows will form a close community through luncheons, meetings with SAGE visiting scholars and speakers, and quarterly presentations of their scholarship. Fellows will each receive a $10,000 credit which can be used to: support novel or high-risk scholarly pursuits or collaborations; organize an interdisciplinary symposium/workshop on a topic of the mind/brain; develop a series of public events; or enable an undertaking of the Fellow’s choice. The fellowship is not designed to cover Fellows’ salary. Fellowships are awarded on a 1-year basis, with the possibility to extend to 2 years based on achievement demonstrated in Year 1.

**Eligibility:** The program is designed to provide supplementary support to current UCSB postdoctoral scholars who are early in their academic career (within 5 years of their PhD). Scholars are sought from a wide range of disciplines, including anthropology, chemistry, communication, computer science, economics, ecology, engineering, history, linguistics, literature, mathematics, molecular biology, neuroscience, psychology, philosophy & religious studies.

**Contact:** John Hajda, Associate Director, SAGE Center for the Study of the Mind; hajda@sagecenter.ucsb.edu

**URL:** [https://www.sagecenter.ucsb.edu/fellowships/sage-junior-research-fellowships/2015-2016](https://www.sagecenter.ucsb.edu/fellowships/sage-junior-research-fellowships/2015-2016)

**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: Revision of CISE Research Infrastructure (CRI) Program**


Through this Dear Colleague Letter (DCL), the National Science Foundation’s (NSF) Directorate for Computer and Information Science and Engineering (CISE) wishes to alert the CISE community about forthcoming changes to the CISE Research Infrastructure (CRI) program. CISE is in the process of revising the CRI program to focus exclusively on infrastructure that engages emerging communities of CISE researchers in order to move CISE research frontiers forward. In the future, the program will aim to support testbeds, platforms, datasets, etc., coupled with a supporting suite of tools, resources, and user services to enable innovative research by diverse communities of CISE researchers. As part of this change, CISE will be discontinuing support for the Institutional Infrastructure class of awards.

**Dear Colleague Letter: Announcing a Core Program within the Division of Computing and Communication Foundations**


The Directorate for Computer and Information Science and Engineering (CISE) is notifying members of the research community about the addition of a core program, called Foundations of Emerging Technologies (FET), within its Division of Computing and Communication Foundations (CCF). FET aims to enable radical innovations across all areas traditionally supported by CCF, through research in emerging computing and communication paradigms at the intersection of computing and biological systems, nanoscale science and engineering, quantum information science, and other nascent, yet promising, areas. The FET program welcomes research in the theory, algorithms, software, hardware, and architecture of such emerging computing and communication systems.

**Dear Colleague Letter: Discoveries to Revolutionize Engineering and Architectural Materials for Buildings (DREAM-B)**


With this Dear Colleague Letter (DCL), Discoveries to Revolutionize Engineering and Architectural Materials for Buildings, the National Science Foundation (NSF) invites proposals to the Engineering for Civil Infrastructure (ECI) program for EArly-concept Grants for Exploratory Research (EAGER) for high risk/high reward fundamental research to investigate wholly new materials and radical changes in the design of conventional materials, through the adaptation and integration of advanced technologies, to enable high performance buildings (structural systems, foundation systems, and building envelopes).

**Dear Colleague Letter: Planning for New Signals in the Soils (SitS)-Themed NSF Industry/University Cooperative Research Centers (IUCRCs)**


The National Science Foundation’s (NSF) Directorate for Engineering (ENG), in collaboration with its Computer and Information Science and Engineering (CISE) and Geosciences (GEO) Directorates, aims to encourage convergent research that transforms existing capabilities in understanding dynamic near-surface processes through advances in sensor systems and dynamic models. Specifically, the goal of this Dear Colleague Letter (DCL) is to encourage planning of one or more Industry-University Cooperative Research Centers (IUCRC). Preliminary proposals for IUCRC planning grants addressing SitS-themed precompetitive research areas are welcome and will be fully considered. Faculty are encouraged to collaborate within their institutions as well as with other institutions to bring together a multi-institution partnership towards planning a prospective center per the requirements of the IUCRC program.
Dear Colleague Letter: Research on Integrated Photonics Utilizing AIM Photonics Capabilities


With this Dear Colleague letter (DCL), the Division of Electrical, Communications and Cyber Systems (ECCS) and the Division of Industrial Innovation and Partnerships (IIP) within the Engineering Directorate of the National Science Foundation continue to encourage innovative exploratory and translational research by academic researchers and small businesses in all aspects of integrated photonics that utilize the current silicon photonics capabilities resident in AIM Photonics.

Dear Colleague Letter: NSF/NSFC Joint Research on Environmental Sustainability Challenges


The NSF Engineering and Geosciences Directorates (ENG and GEO) and the National Natural Science Foundation of China (NSFC) Department of Engineering and Material Sciences (DEMS) and Department of Geosciences are partnering to encourage joint research by U.S.-China teams collaborating on fundamental research that addresses critical environmental sustainability challenges. This call is for research proposals from joint U.S.-China teams in the environmental sustainability themes of: “Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS: U.S.-China)”

- quantitative and computational modeling of a FEW system
- innovative human and technological solutions to critical FEW systems problems.

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:

- Johnson & Johnson Women in STEM²D Scholars Program—Notice of Intent 8/17/2018; Campus preproposal 8/27/2018; Application 9/27/2018
- NSF Advancing Digitization of Biological Collections (ADBC)—Notice of Intent 8/21/2018; Application 10/12/2018
- NSF Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering and Information (Q-AMASE-i)—Notice of Intent 8/23/2018; NSF Letter of Intent (required) 9/17/2018; Full Proposal 11/05/2018

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

- NIH Institutional Research and Academic Career Development Awards (IRACDA)—Application 9/19/2018
- NIH Bridges to the Baccalaureate Program (R25)—Application 9/25/2018
- NIH Bridges to the Doctorate (R25)—Application 9/25/2018
Data provided by Office of Research. "()" represent investigators’ home departments when those are different from the administering unit.


Banerjee, K., Electrical & Computer Engineering, $435,000, DAF Air Force Research Laboratory, “In-Situ Raman/PL and High-Vacuum Physics Characterization System for van der Waals Interfaces and Heterostructures.”


Boddy, A.M. (Anthropology), Institute for Social, Behavioral, & Economic Research, $410,983, Arizona State University, “Arizona Cancer and Evolution Center (ACE).”


Ceniceros, H.D., Mathematics, $200,001, National Science Foundation, “Smart Data Approaches for the Inverse Design of Soft Materials.”

Chen, I., Chemistry & Biochemistry, $75,000, Camille & Henry Dreyfus Foundation, “Probing “known unknowns” in systems biology.”

Christopher, P.N., Chemical Engineering, $184,000, UC Riverside, “Quantitative and Mechanistic Analyses of Bond Selective Chemistry via Non-Thermal Excitation of Metal Nanostructures.”

Clarke, K.C., Geography, $15,000, University Corp For Atmospheric Research, “A National Water Model R Package: Improving access and application of model output.”

Covo, M. (History), Interdisciplinary Humanities Center, $50,000, The Huntington Library, “The Étrepot of Atlantic Revolutions; The Colony of Saint-Domingue, Commercial Republicanism and the Remaking of the French Empire.”

Craig, K., mathematics, $140,981, National Science Foundation, “Singular Limits of Gradient Flows: Analysis & Numerics.”

Eilon, Z.C. (Earth Science), Earth Research Institute, $249,812, National Science Foundation, “Collaborative Research: The context for rifting in East Africa - melt distribution and lithospheric removal imaged from axis to flank.”


Halpern, B.S., National Center for Ecological Analysis and Synthesis, $450,000, Colorado State University, “Future Earth PEGASuS Funding Initiative Phase II.”

Harlow, D. (Education), Gevirtz Graduate School of Education, $179,735, National Science Foundation, “Collaborative Research: Design and Development: NGSS-aligned Museum-based Engineering Education Program with Classroom Extensions.”

Jayich, A. (Physics), Young, A. (Physics), California Nanosystems Institute, $660,000, National Science Foundation, “Imaging electron hydrodynamics in graphene.”

Jayich, A. (Physics), California Nanosystems Institute, $622,109, Air Force, “A cryogenic, scanned probe imaging system for studying nanoscale magnetism and coherent qubit-photon interfaces.”


Kosik, K.S. (Molecular, Cellular & Developmental Biology), Hari, M.A. (Exercise & Sport Studies), Neuroscience Research Institute, $3,000, Curepsp, “Role of Tau Aggregation on Mouse P301L Neuron Physiology in vitro.”


Mayer, R., Psychological & Brain Sciences, $79,848, UC Riverside, “Computer-based interventions to foster student engagement in
introductory engineering courses."

Moritz, M., Earth Research Institute, $414,469, UC Los Angeles, “Fire, Forest Dieback, and Climate Change in California.”

Nelson, H.N., Physics, $25,000, UC Lawrence Berkeley Laboratory (LBNL), “LZ Operations Travel.”

Oono, R. (Ecology, Evolution & Marine Biology), O’Malley, M.A. (Chemical Engineering), earth research institute, $199,779, National Science Foundation, “EAGER: Does host specificity drive species diversification of fungal endophytes?”


Pollock, T., Rossin, J.O. (Mechanical Engineering), materials, $70,008, National Aeronautics and Space Administration, “Predicting the Integrity of Additively Manufactured Nickel Alloys.”

Pruitt, B., Mechanical Engineering, $184,591, National Institute of Health, “Validating engineered hiPSC-derived cardiomyocytes as model cells.”


Theogarajan, L., Electrical & Computer Engineering, $231,500, Charles Stark Draper Laboratory, Inc., “2-Photon Optical Clock (2-POC).”


Visell, Y. (Media Arts & Technology Program), California Nanosystems Institute, $359,077, Oculus VR, LLC, “Synthesizing Cutaneous Waves for Haptic Display.”

Wallace, V. (Religious Studies), Ujeed, S. (Religious Studies), Interdisciplinary Humanities Center, $110,000, American Council of Learned Societies, “Cosmic Cosmopolitan: The Seventeenth to Eighteenth Century Tibetan-Mongolian Assimilation of Buddhism.”


Weimbs, T. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, $11,359, Effector Therapeutics, Inc., “Preclinical investigation of the MNK 1 and 2 inhibitor, eFT441, as a potential therapeutic in polycystic kidney disease.”

Wittmann, M.E. (Natural Reserve System), Laughrin, L.L. (Natural Reserve System), Marine Science Institute, $24,944, National Science Foundation, “Developing a Strategic Plan for Santa Cruz Island Reserve.”


Yang, X., mathematics, $199,928, National Science Foundation, “Parallel Semiclassical Methods for Seismic Wave Propagation, Inversion and Data Analysis.”

Yi, T., Molecular, Cellular & Developmental Biology, $178,778, National Science Foundation, “Characterizing Two Cell Polarity Processes Using Uncertainty Quantification to Analyze Complex Models and Data.”

Zhang, L., Chemistry & Biochemistry, $450,000, National Science Foundation, “Development of Efficient Homogeneous Gold Catalysis.”

Zhou, X., Mathematics, $162,000, National Science Foundation, “Geometric Variational Theory and Application.”

Helpful Hints

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

Department of Agriculture (USDA)

9/30/2018 Full Proposal

AFRI Foundational: Exploratory Research
National Institute of Food and Agriculture
https://nifa.usda.gov/funding-opportunity/afri-foundational-exploratory-research
Contact: Charlotte Baer, 202/720-5280, cbaer@nifa.usda.gov
Solicitation number:
This program area encourages continuous development of innovative ideas that will position U.S. Agriculture at the global forefront. These developments will lead to quantum leaps in the agricultural fields. They will address the challenges that have never been addressed before in the areas of food security, climate change, environmental quality and natural resources, nutrition, obesity, food safety, strong families and vibrant communities, and thriving youth.

Department of Defense (DOD)

Ongoing

Environmental Management Participation Program for the U.S. Army Environmental Command (USAEC)
U.S. Army Corps of Engineers
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.
ONR Young Investigator Program (YIP)
Office of Naval Research (ONR)
https://www.grants.gov/web/grants/view-opportunity.html?oppId=306796
Contact: Reginald Williams, david.broadwell@navy.mil
Solicitation number: N00014-18-S-F009
ONR’s Young Investigator Program seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment, who have received their PhD or equivalent degree on or after 01 January 2011, and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members to the Department of the Navy’s Science and Technology (S&T) research program, to support their research, and to encourage their teaching and research careers.

Proposals addressing research areas (as described in the ONR Science and Technology Department section of ONR’s website) which are of interest to ONR program officers will be considered. Contact information for each division (a subgroup of an S&T Department) is also listed within the S&T section of the website.

Applicants are STRONGLY ENCOURAGED to contact the appropriate Program Officer who is the point of contact for a specific technical area to discuss their research ideas. Applicants may request up to $500,000 for 24-months with an option for up to $250,000 for an additional 12-months.

Peer Reviewed Medical Research Focused Program Award
Congressionally Directed Medical Research Programs
https://www.grants.gov/web/grants/view-opportunity.html?oppId=304266
Contact:
Solicitation number: W81XWH18PRMRPFPA
The vision of the FY18 PRMRP is to improve the health and well-being of all military Service members, Veterans, and beneficiaries. The PRMRP challenges the scientific and clinical communities to address at least one of the FY18 PRMRP Topic Areas with original ideas that foster new directions along the entire spectrum of research and clinical care. The program seeks applications in laboratory, clinical, behavioral, epidemiologic, and other areas of research to advance knowledge in disease etiology, improve prevention, detection, diagnosis, treatment, and quality of life for those affected by a relevant disease or condition, and to develop and validate clinical care or public health guidelines.

FY17 - FY18 Department of Defense Military Specific HIV/AIDS Prevention, Care, and Treatment Program for Non-P
Department of Defense (DoD)
http://www.grants.gov/web/grants/view-opportunity.html?oppId=290364
Contact: Janet Norton, janet.norton@navy.mil
Solicitation number:
This FOA is intended to solicit existing partners and establish new partners in furtherance of DHAPP and partner military program goals. Proposals should focus on rapidly extending HIV/AIDS services. Respondents are encouraged to target specific needs with a practical business plan, using small grass-roots organizations to provide community-based services as a way to enhance organic capabilities and sustainability. DHAPP’s goal is to maximize program impact by focusing on the drivers of the epidemic specific to the military, and to support the development of interventions and programs that address these issues.
NSA Mathematical Sciences Program
National Security Agency
https://www.nsa.gov/what-we-do/research/math-sciences-program/
Contact: Charles Toll, 443-634-4390, chtoll@nsa.gov
Solicitation number:
The program supports self-directed, unclassified research in the areas of Algebra, Number Theory, Discrete Mathematics, Probability and Statistics. The program does not support research in cryptology. For FY2019 proposals will be accepted for Conferences, Workshops, Special Situations, and Research Experiences for Undergraduates. The award for conferences and workshops will not exceed $25,000. The Special Situation category is for infrastructure development projects and for events that do not fall within the typical research conference format.

Department of the Interior (DOI)
Ongoing

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 Aeronautics and Space Administration (NASA)
8/23/2018 Step-2

ROSES 2018: New Frontiers Data Analysis
National Aeronautics and Space Administration
https://nspires.nasaprs.com/external/solicitations/summary?solId={E8105664-4EB8-70E8-FFEB-A23972670A58}&path=op
Contact: Michael DiSanti, 301/286-7036, HQ-NFDAP@mail.nasa.gov
Solicitation number: NNH18ZDA001N-NFDAP
All proposals to NFDAP must identify and address a clear objective with science research that would be a significant, not incremental, advance in the state of knowledge of the research topic. Tasks responsive to this call include 1) data analysis tasks, 2) nondata analysis tasks that are necessary to analyze or interpret the data, and 3) nondata analysis tasks that significantly enhance the use or facilitate the interpretation of mission data. These tasks may incorporate theory, modeling, laboratory studies, correlative analyses, and/or other research. Proposals that include nondata analysis tasks to enhance the use or facilitate the interpretation of mission data must incorporate the results of such tasks in the analysis or interpretation of mission data to be responsive to this call.
ROSES 2018: Mars Data Analysis

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary?init.do?solId={A2786FD3-75A3-8A19-D43B-8A6F0F94CCF2}&path=0

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

Solicitation number: NNH18ZDA001N-MDAP

Investigations submitted to this program must demonstrate how the research to be undertaken will directly improve our understanding of open science questions at Mars relevant to current hypotheses. Tasks responsive to this call include 1) data analysis tasks, 2) nondata-analysis tasks that are necessary to analyze or interpret the data, and 3) nondata-analysis tasks that significantly enhance the use or facilitate the interpretation of mission data. These tasks may incorporate theory, modeling, laboratory studies, correlative analyses, and/or other research. All proposals must include a complete science investigation. Proposals that include nondata-analysis tasks to enhance the use or facilitate the interpretation of mission data must incorporate the results of such tasks in the analysis or interpretation of mission data to be responsive to this call. MDAP does not support field studies or the acquisition of new astronomical observations or collection of new data from spacecraft at Mars.

Atmospheric Composition: Modeling and Analysis

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary?init.do?solId={E81E419F-870F-F33B-BD1E-9D1C4AC3430C}&path=0

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

Solicitation number: NNH18ZDA001N-ACMAP

NASA’s research for furthering our understanding of atmospheric composition is geared to providing an improved prognostic capability for key processes and issues such as the recovery of stratospheric ozone and its impacts on surface ultraviolet radiation, the evolution of greenhouse gases and their impacts on climate, and the evolution of tropospheric ozone and aerosols and their impacts on climate and air quality. Toward this end, research within the Atmospheric Composition Focus Area addresses the following science questions: How is atmospheric composition changing? What trends in atmospheric composition and solar radiation are driving global climate? How does atmospheric composition respond to and affect global environmental change? What are the effects of global atmospheric composition and climate changes on regional air quality? How will future changes in atmospheric composition affect ozone, climate, and global air quality?

ROSES 2018: Discovery Data Analysis

National Aeronautics and Space Administration


Contact: Thomas Statler, 202/358-0272, thomas.s.statler@nasa.gov

Solicitation number: NNH18ZDA001N-DDAP

The objective of the DDAP is to enhance the scientific return of Discovery Program missions and broaden the scientific participation in the analysis of data, both recent and archived, collected by Discovery missions. Investigators are encouraged to contact the archive for assistance in identifying specifics of available datasets. Datasets to be used in the proposed work must be clearly and specifically identified in the proposal. NASA puts no other restriction on the status or condition of the data. However, regardless of the archive(s) used, if the data to be analyzed have known issues that might represent an obstacle to analysis, the proposers must demonstrate clearly and satisfactorily how such potential difficulties will be overcome. In other words, it is the proposer’s responsibility to demonstrate clearly that the public data are of sufficient quantity and quality to achieve the project’s science goals. Typical proposals to this program seek three years of funding or fewer.
**Human Exploration Research Opportunities (HERO)**

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summarylimit.do?solId={9B13E02D-9825-E9B8-3B5D-C132E46A519C}&path=o

Contact: John B. Charles, 281-483-7224, john.b.charles@nasa.gov

Solicitation number: 80JSC017N0001

This program solicits applied research in support of NASA’s Human Research Program (HRP). The research will fall into one or more categories corresponding to HRP’s five Elements: Space Radiation, Human Health Countermeasures, Exploration Medical Capability, Human Factors and Behavioral Performance, and International Space Station Medical Projects. This NRA covers all aspects of research to provide human health and performance countermeasures, knowledge, technologies, and tools to enable safe, reliable, and productive human space exploration. Awards generally range from under $100K per year for focused, limited efforts (e.g., data analysis) to $1M per year for extensive activities (e.g., development of scientific hardware) and will be made as grants.

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**ROSES 2018: Heliophysics Supporting Research**

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summarylimit.do?solId={FED2E80E-E06B-1909-190C-339D1B412574}&path=o

Contact: Arik Posner, 202/358-0727, arik.posner@nasa.gov

Solicitation number: NNH18ZDA001N-HSR

Heliophysics Supporting Research awards are research investigations of significant magnitude that employ a combination of scientific techniques. These must include an element of (a) theory, numerical simulation, or modeling, and an element of (b) data analysis and interpretation of NASA-spacecraft observations. Proposing teams must demonstrate the expertise necessary to cover the combination of techniques required. Awards are expected to be in the range of approximately $200K per year – $250K per year. The Heliophysics Supporting Research program is a component of the Heliophysics Research Program and proposers interested in this program element are encouraged to see the overview of the Heliophysics Research Program in Appendix B.1 of this ROSES NASA Research Announcement.

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**ROSES 2018: Planetary Instrument Concepts for the Advancement of Solar System Observations**

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summarylimit.do?solId={FE0F495D-65CC-B52F-E86D-21C152022AE0}&path=o

Contact: James Gaier, 260/579-3442, james.r.gaier@nasa.gov

Solicitation number: NNH18ZDA001N-PICASSO

The goal of the PICASSO program is to support the development of spacecraft-based instrument components and systems that show promise for use in future planetary missions in support of the Science Mission Directorate’s (SMD) Planetary Science Division (PSD). Therefore, the proposed instrument component or system must address specific scientific objectives of likely future planetary science missions. PICASSO is an instrument hardware development program and as such does not support mission operation and system software or platform technologies such as materials and structures, power generation or conditioning, communications, small satellites, landers, rovers, or any spacecraft technology that does not directly address planetary science instrumentation. Integrating multiple existing instrument systems does not generally demonstrate the proof-of-concept of a new instrument element. In addition, PICASSO does not support proposals that seek to develop ground-based laboratory instruments, or Earth orbital instruments for astronomical or astrophysics space observations. Instrument systems that have already demonstrated key performance targets can be proposed to the MatISSE program (C.13) to be matured for fit, form and function, and testing in relevant use environments. The typical award duration is three years.
ROSES 2018: Science Team for the NASA ISRO Synthetic Aperture Radar (NISAR) Mission
National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=610891/solicitationId=%7B07242CFB-41BF-6F1A

Contact: Craig Dobson, 202/358-2054, Craig.Dobson@nasa.gov

Solicitation number: NNH18ZDA001N-NST

The NISAR mission will provide large scale data sets of Earth surface dynamics that are critical to three Earth Science disciplines: 1) Deformation (Solid Earth), 2) Ecosystems (Vegetation, Carbon Cycle) and 3) Cryosphere (Climate Change). To achieve the science objectives, the NISAR mission will be capable of performing repeat-pass interferometry and collecting polarimetric data. In addition, an applications objective of the NISAR mission relates to its potential role to inform the hazard/disaster management cycle (understanding, hazard/risk assessment, forecast/warning, situational awareness, response, recovery and mitigation). Maximum duration of awards is 3 years.

10/2/2018 Application

ROSES 2018: Planetary Science and Technology Through Analog Research
National Aeronautics and Space Administration


Contact: Mary Voytek, 202/358-1588, mary.voytek-1@nasa.gov

Solicitation number: NNH18ZDA001N-PSTAR

The PSTAR program is a science-driven exploration program that is expected to result in new science and operational/technological capabilities to enable the next generation of planetary exploration. Proposals must demonstrate fidelity to at least two of the following three objectives: Science, Science Operations, and Technology. In summary, PSTAR is expected to lower the risks of planetary exploration through instrument/technology development aimed at or coupled with systems-level field tests in relevant environments that will obtain scientific data and/or develop operational capability. The standard award duration is three years.

10/10/2018 Step-2

National Institutes of Health (NIH)

8/21/2018 Letter of Intent
9/26/2018 Application

Perception and Cognition Research to Inform Cancer Image Interpretation (R01 Clinical Trial Optional)
National Institutes of Health


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

Solicitation number: PAR-18-640

This purpose of this FOA is to facilitate research on the perceptual and cognitive processes underlying the performance of cancer image observers. Specifically, the FOA will bring scientists with expertise in visual perception and cognition together with radiologists, pathologists, nuclear medicine physicians, and other experts in cancer image interpretation. The scientific scope of the PAR will yield insights to improve the accuracy of cancer detection and diagnosis as a result of NCI's investment in studying the underlying perceptual and cognitive processes. Projects suitable for this FOA will have a focus on underlying cognitive and perceptual mechanisms, rather than descriptive studies. For example, a study demonstrating the relationship between experience and interpretation accuracy would not be appropriate, but a study identifying the visual features acquired by expert observers would be appropriate. In particular, the FOA seeks to encourage research that identifies a critical problem in cancer image perception, studies the underlying perceptual or cognitive mechanisms in a basic laboratory setting, and tests the most promising hypotheses in the applied cancer imaging context. 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.
Natural History Studies for Rare Disease Product Development: Orphan Products Research Project Grant (R01)

National Institutes of Health


Contact: Katherine Needleman, 301/796-8660, katherine.needleman@fda.hhs.gov

Solicitation number: RFA-FD-16-043

The objective of this FOA is to support studies that advance rare disease medical product development through characterization of the natural history of rare diseases/conditions, identification of genotypic and phenotypic subpopulations, and development and/or validation of clinical outcome measures, biomarkers and/or companion diagnostics. The ultimate goal of these natural history studies is to support clinical development of products for use in rare diseases or conditions where no current therapy exists or where the proposed product will be superior to the existing therapy. FDA provides grants for natural history studies that will either assist or substantially contribute to market approval of these products. Applicants must include in the application's Background and Significance section documentation to support that the estimated prevalence of the orphan disease or condition in the United States (US) is less than 200,000 (or in the case of a vaccine or diagnostic, information to support that the product will be administered to fewer than 200,000 people in the US per year), and an explanation of how the proposed study will either help support product approval or provide essential data needed for product development. It is anticipated that up to five (5) awards will be made, not to exceed $400K in total costs (direct plus indirect), per award, per fiscal year.

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

National Institutes of Health


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

Solicitation number: PAR-16-292

The purpose of this FOA is to encourage exploratory/developmental research applications that propose to conduct research to develop or adapt innovative mobile health (mHealth) technology specifically suited for low and middle income countries (LMICs) and determine the health-related outcomes associated with implementation of the technology. Of highest interest are innovative, well-designed multidisciplinary projects that aim to generate generalizable knowledge for the field. The overall goal of the FOA is to contribute to the evidence base for the use of mobile technology to improve clinical outcomes and public health while building research capacity in LMICs and establishing research networks in this area. Applicants are required to propose partnerships between at least one U.S. institution and one LMIC institution and the proposed research plan should strengthen the mHealth research capabilities at the LMIC institution. Applicants may request up to $125K direct costs per year. The total project period may not exceed 2 years.
Phased Innovation Award for Mechanistic Studies to Optimize Mind and Body Interventions in NCCIH High Priority

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. NCCIH 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. NCCIH 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.

T32 Training Program for Institutions That Promote Diversity (T32)

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.
Cancer Tissue Engineering Collaborative: Enabling Biomimetic Tissue-Engineered Technologies for Cancer Research

National Institutes of Health


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

Solicitation number: PAR-17-171

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

Program for Extramural/Intramural Alcohol Research Collaborations (U01 Clinical Trial Optional)

National Institutes of Health


Contact: Peter Silverman, 301/402-6966, psilverm@mail.nih.gov

Solicitation number: PAR-18-195

The purpose of this funding opportunity is to encourage collaboration between alcohol researchers in the extramural community and those within the NIAAA intramural research program. The objective of this Funding Opportunity Announcement is to bring together the research expertise that, as a functioning collaborative unit, will address key alcohol-based research questions that would not otherwise be possible by the same individuals working towards similar goals in isolation. The goal of the research proposed by the collaborating investigators should address questions that advance the alcohol research field with respect to issues surrounding alcohol use disorders including dependence and the effects of alcohol on health. The NIH Intramural Scientist will be a tenured or tenure-track scientist from the NIAAA Intramural Research Program, with whom the PD/PI has made prior contact for the collaborative project. Application budgets need to reflect actual needs of the proposed project and may not exceed $250K direct cost per year. These funds may only be used to support the activities within the PD(s)/PI(s) (extramural scientists) research laboratory. The scope of the proposed project should determine the project period. The maximum period is 5 years.
Complex Technologies and Therapeutics Development for Mental Health Research and Practice (R43/R44 Clinical T

National Institutes of Health


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

Solicitation number: PA-18-566

The overarching goal of the SBIR 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 in 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 SBIR 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 SBIR guidelines. Budgets of up to total $450K per year total cost for Phase I awards and $750K per year total cost for Phase II awards, and $1M per year total cost for Phase IIB may be requested. Durations up to two years for Phase I and up to three years for Phase II may be requested.

Lab to Marketplace: Tools for Brain and Behavioral Research (R43/R44 - Clinical Trial Optional)

National Institutes of Health


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

Solicitation number: PAR-18-565

This FOA encourages the translation of technologies for brain or behavioral research from academic and other non-small business research sectors to the marketplace. Encouraged from Small Business Concerns (SBCs) are Small Business Innovation Research (SBIR) grant applications that propose to further develop, make more robust, and make more user-friendly such technologies in preparation for commercial dissemination. It is expected that this activity will require partnerships and close collaboration between the original developers of these technologies and SBCs, which may be accomplished in any of a number of ways, including the use of multiple program directors/principal investigators. Budgets of up to total $450K per year total cost for Phase I awards and $750K per year total cost for Phase II awards, and $1M per year total cost for Phase IIB may be requested. Durations up to two years for Phase I and up to three years for Phase II may be requested.
Mechanistic investigations of psychosocial stress effects on opioid use patterns (R01- Clinical Trial Optional)

National Institutes of Health


Contact: Vani Pariyadath, 301/443-3209, vani.pariyadath@nih.gov

Solicitation number: PAS-18-624

This FOA invites innovative research to characterize the consequences of psychosocial stress on affective/cognitive functioning and/or pain processing as it relates to opioid use disorder (OUD). This FOA encourages research that elucidates mechanisms of action and determinants of vulnerability and/or resilience by which psychosocial stress influence OUD trajectories. Research using basic or clinical approaches is appropriate. This funding opportunity announcement seeks to address two specific mechanistic pathways via which psychosocial stress may modulate opioid use trajectories. The first pathway is through its effects on cognitive and affective systems that are also altered in OUDs. Stressful environments have been linked to impairments in reasoning, memory, inhibitory and cognitive control, and negative affect. Acute poverty, for example, has been shown to immediately impact performance on tasks measuring intelligence and cognitive control. Relatedly, there is substantial co-morbidity between OUD and stress-related affective disorders, including depression, anxiety and PTSD. Many neurobiological substrates and circuits that are thought to mediate cognitive and affective aspects of addiction are impacted by psychosocial stress. Taken together, these findings suggest that more research is warranted on the role of cognitive and affective systems mediating the effects of psychosocial stress on opioid use trajectories. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

Dissemination and Implementation Research in Health (R01 Clinical Trial Optional)

National Institutes of Health


Contact: Varies with research interest.

Solicitation number: PAR-18-007

This FOA encourages investigators to submit research grant applications that will identify, develop, test, evaluate and/or refine strategies to disseminate and implement evidence-based practices (e.g. behavioral interventions; prevention, early detection, diagnostic, treatment and disease management interventions; quality improvement programs) into public health, clinical practice, and community settings. In addition, studies to advance dissemination and implementation research methods and measures are encouraged. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.
Methods Development in Natural Products Chemistry (R41/R42 Clinical Trial Not Allowed)

National Institutes of Health


Contact: Craig Hopp, 301/496-5825, hoppdc@mail.nih.gov

Solicitation number: PA-18-682

The purpose of this STTR initiative is to stimulate technological innovation in the private sector, strengthen the role of small business in meeting research and development needs, and improve the return on investment from Federally-funded research. With this STTR initiative, NCCIH is proposing to focus on areas that could significantly improve the progress in natural products research. Areas of interest include, but are not limited to, those listed below: Technologies aimed at improving field applications for characterizing natural product sources/species and their diverse bioactive constituents, (e.g., activity based profiling, biosensors, spectrometric equipment and techniques, etc.) Technologies aimed at the rapid removal of nuisance compounds in the crude extracts of natural products, (e.g., innovative chromatographic technologies, resins, catch and release-type systems, etc.) Technologies aimed at the development of highly sensitive phenotypic/high content bioassays including capacity to identify potential synergistic mechanisms (e.g., image-based cellular assays, multiple-endpoint analysis based on phenotypic changes, bioengineering chemically sensitive strains, etc.) Technologies aimed at the creation and exploitation of model systems for the expression of natural product constituents in high product yielding hosts (e.g., broad spectrum heterologous or homologous expression hosts, stimulation of biosynthetic pathways, mutation, etc.) Technologies aimed at predicting and/or quantifying risks of natural product–drug interactions (e.g., designed in vitro interaction assays or kits, in silico technologies, etc.) This FOA is intended to help move useful technologies into the commercial marketplace by inviting STTR grant applications from small businesses for further development of such technologies that are relevant to the missions of the sponsoring NIH institutes and centers. The supported research and development will likely include making the tools more robust and easy to use. NCCIH encourages new investigators as well as those investigators who are previous recipients and have shown significant progress in moving useful technologies into the commercial marketplace. 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. According to statutory guidelines, award periods normally may not exceed 1 year for Phase I and 2 years for Phase II. Applicants are encouraged to propose a project duration period that is reasonable and appropriate for completion of the research project.

Innovative Therapies and Tools for Screenable Disorders in Newborns (R01 - Clinical Trial Optional)

National Institutes of Health


Contact: Melissa Parisi, 301/435-6880, kaua@mail.nih.gov

Solicitation number: PAR-18-689

This FOA encourages research relevant to the development of therapeutic interventions for potentially fatal or disabling conditions that have been identified through newborn screening, as well as "high priority" genetic conditions where screening may be possible in the near future. Demonstrating the benefits of treatment is often a primary criterion for including a condition on a newborn screening panel; therefore, for this FOA, a "high priority" condition is one where screening is not currently recommended but would significantly benefit from early identification and treatment. 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.
Selective Cell and Network Vulnerability in Aging and Alzheimer's Disease (R01 Clinical Trial Not Allowed)

National Institutes of Health


Contact: Bradley Wise, 301/496-9350, wiseb@mail.nih.gov

Solicitation number: PAR-18-706

The goal of this FOA is to define and characterize neural cell populations (neurons and glia), neural activity and circuits, structural and functional networks, and brain regions that are vulnerable in brain aging and AD, and the mechanisms underlying such selective vulnerability. Genetic and molecular signatures of different types of neurons and glial cells across the adult lifespan, in AD compared to other dementias of aging, and in different stages of AD will implicate cell processes and pathways mediating selective vulnerability to AD. Defining cell types by physiological measures such as electrophysiology and connectivity and manipulating neural activity in circuits and networks will provide a functional index of selective vulnerability. Applications are encouraged to use new approaches to generate sophisticated data on molecular signatures of brain cells and on structure and function of brain circuits and networks. Understanding the mechanisms underlying selective vulnerability from cells to networks in AD is critical to fully define the disease process and to develop effective therapies. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

Ethical, Legal and Policy Issues in HIV Research with Key Populations (R01)

National Institutes of Health


Contact: Lisa Dawson, 240/627-3210, dawsonl@niaid.nih.gov

Solicitation number: PAR-15-328

This FOA encourages applications to analyze and address ethical, legal, or policy challenges specific to work with key populations in HIV research or health care. Proposed projects should be focused on ethical, legal or policy challenges in relation to research studies or program implementation for HIV or associated co-morbidities, affecting one or more of the following key populations: (1) men who have sex with men; (2) people who inject drugs; (3) people in prisons and other closed settings; (4) sex workers; (5) transgender people or (6) adolescent girls and young women at high risk of HIV acquisition or who are living with HIV. Application budgets are not limited but need to reflect the actual needs of the proposed project. This FOA encourages both empirical and conceptual research projects addressing these topics. This FOA runs in parallel with a FOA of identical scope, PAR-15-327, that utilizes the R21 Exploratory/Developmental Grant.

Ethical, Legal and Policy Issues in HIV Research with Key Populations (R01, R21)

National Institutes of Health


Contact:

Solicitation number: PAR-15-328

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

Proposed projects should be focused on ethical, legal or policy challenges in relation to research studies or program implementation for HIV or associated co-morbidities, affecting one or more of the following key populations: (1) men who have sex with men; (2) people who inject drugs; (3) people in prisons and other closed settings; (4) sex workers; (5) transgender people or (6) adolescent girls and young women at high risk of HIV acquisition or who are living with HIV. This FOA encourages both empirical and conceptual research projects addressing these topics.
NIH Director's New Innovator Award Program (DP2)
National Institutes of Health
Contact: Ravi Basavappa, 301/594-8190, newinnovator@nih.gov
Solicitation number: RFA-RM-18-008
The NIH Director’s New Innovator (DP2) Award initiative supports a small number of early stage investigators of exceptional creativity who propose bold and highly innovative new research approaches that have the potential to produce a major impact on broad, important problems in biomedical and behavioral research. The New Innovator Award initiative complements ongoing efforts by NIH and its Institutes and Centers to fund early stage investigators through R01 grants, which continue to be the major sources of NIH support for early stage investigators.

Countermeasures Against Chemical Threats (CounterACT) Cooperative Research Projects (U01)
National Institutes of Health, Cross-Institute
Contact: Varies with research interest
Solicitation number: PAR-16-128
The mission of this program is to develop new and improved therapeutics to treat and/or prevent injuries resulting from exposure to chemical threats. Chemical threats are toxic chemicals that could be used in a terrorist attack or accidentally released from industrial production, storage or shipping. They include traditional chemical warfare agents and toxic industrial chemicals and materials. This FOA requests research applications seeking support for research on the optimization of small molecule or biologic compounds that are excellent candidates for therapeutic development. A previously identified lead compound is required to be eligible for this funding opportunity. In this regard, lead compounds are defined as biologically active compounds or hits where affinity, potency, target selectivity, and preliminary safety have been established. The scope of research supported by this FOA includes development of appropriate human-relevant animal models and generation of in vivo efficacy data consistent with the intended use of the product in humans. It also includes bioanalytical assay development and validation, laboratory-scale and scale-up manufacturing of the product, and non-GLP toxicity and pharmacology studies. The expected direct cost for individual awards is $300K-$500K per year for five years. This FOA runs in parallel with three FOAs of identical scopes; PAR-15-315, PAR-15-146, and PAR-16-129; that utilize the R21 Exploratory/Developmental Grant, the U54 Specialized Center- Cooperative Agreements, and the U01 Research Project – Cooperative Agreement mechanisms, respectively.

U.S. Tobacco Control Policies to Reduce Health Disparities (R01 Clinical Trial Optional)
National Institutes of Health
Contact: Bob Vollinger, 240/276-6919, Bob.Vollinger@nih.gov
Solicitation number: PAR-18-675
This FOA seeks applications for research projects to help address cancer health disparities in tobacco use in the United States through scientific inquiry focused on innovative tobacco control policies including, but not limited to: 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 cancer health disparities in vulnerable populations by utilizing tobacco prevention and control strategies. The long-term goal of this FOA is to reduce health disparities in cancer health outcomes, thereby reducing the excess disease burden of tobacco use within these groups. 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.
Time-Sensitive Obesity Policy and Program Evaluation (R01)
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), Nation
Contact: Varies with research interest
Solicitation number: PAR-15-346
This FOA establishes an accelerated review/award process to support time-sensitive research to evaluate a new policy or program expected to influence obesity related behaviors (e.g., dietary intake, physical activity, or sedentary behavior) and/or weight outcomes in an effort to prevent or reduce obesity. This FOA is intended to support research where opportunities for empirical study are, by their very nature, only available through expedited review and funding. All applications to this FOA must demonstrate that the evaluation of an obesity related policy and/or program offers an uncommon and scientifically compelling research opportunity that will only be available if the research is initiated with minimum delay. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is five years.

Bioengineering Research Partnerships (U01)
National Institutes of Health
Contact: Eileen Bradley, 301/435-1179, bradleye@csr.nih.gov
Solicitation number: PAR-16-116
This Funding Opportunity Announcement (FOA) encourages bioengineering applications that will accelerate the development and adoption of promising tools and technologies that can address important biomedical problems. The objectives are to establish these tools and technologies as robust, well-characterized solutions that fulfill an unmet need and are capable of enhancing our understanding of life science processes or the practice of medicine. Awards will focus on supporting multidisciplinary teams that apply an integrative, quantitative bioengineering approach to developing technologies, and engage biomedical researchers or clinicians throughout the project. The goal of the program is to support projects that can realize meaningful solutions within 5 – 10 years.

NHLBI TOPMed: Omics Phenotypes of Heart, Lung, and Blood Disorders (X01)
National Institutes of Health
Contact: Weiniu Gan, 301/435-0202, ganw2@mail.nih.gov
Solicitation number: PAR-16-021
This FOA invites applications to use NIH-funded omics capacity to carry out studies of the genetic basis and/or omics signatures of common, complex heart, lung, and blood disorders. This FOA provides an opportunity for investigators to utilize biospecimen analysis capabilities supported by the National Human Genome Research Institute (NHGRI) RFA-HG-15-001 and NHLBI contracts to generate omics signatures for their own studies. Data generated through this program is expected to be shared with others in the scientific community, allowing investigators to leverage a rich collection of omics data accumulating in a common, publicly accessible database. An overarching goal is to generate information that has greater collective scientific value than the individual studies in isolation. Applicants must have existing, high quality biospecimens collected from well-phenotyped human subjects in studies designed to inform the molecular pathobiology of disorders in heart, lung, and blood systems. Successful applicants will provide biospecimens for whole genome sequencing or other omics assays. No funding will be provided under this FOA. The omics data and related phenotypic data will be deposited in a public database such as dbGaP. The maximum project period is 4 years.
Institutional Research and Academic Career Development Awards (IRACDA) - Limited Submission

The purpose of this program is to develop a diverse group of highly trained biomedical and behavioral scientists to address the Nation's biomedical workforce needs. The strategy is to promote effective partnerships between research-intensive institutions (RII) and institutions that have a historical mission or a demonstrated commitment to educating students from diverse backgrounds underrepresented in the biomedical and behavioral research enterprise of the nation. The IRACDA program provides support for a traditional mentored postdoctoral research experience at an RII combined with an opportunity for these fellows to develop critical academic skills, including teaching, through workshops and through mentored teaching assignments at a partner institution.

The primary goals of the IRACDA program are to (1) develop a group of highly trained biomedical and behavioral scientists who have the necessary knowledge and skills to pursue independent research and teaching careers in academia; and (2) strengthen and modernize science educational offerings at partner institutions, and promote links between RII and the partner institution(s).

While applications may request research program budgets of up to $1.5 million direct costs per year, it is anticipated that most awards will be between $700,000-$900,000 direct costs. Inflationary adjustments are not allowed. The requested budget should be consistent with the number of PDs/PIs and the complexity and needs of the proposed program. In addition to the research program budget, an additional $250,000 direct costs per year may be requested for optional exploratory pilot studies for ESIs.

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

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)

National Institutes of Health

Contact: Alison Lin, 240/276-6177, linaj@mail.nih.gov

Solicitation number: PAR-17-059

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.

Bridges to the Baccalaureate Program (R25) - Limited Submission

National Institutes of Health
https://grants.nih.gov/grants/guide/pa-files/PAR-17-210.html - Section I. Funding

Contact: Mercedes Rubio, 301-594-3900, mercedes.rubio@nih.gov

Solicitation number: PAR-17-210

This FOA will support creative educational activities with a primary focus on Courses for Skills Development, Research Experiences, and Curriculum or Methods Development. A program application must include each activity, and describe how they will be synergized to make a comprehensive program. The program is intended to provide these activities to community college students to increase transition to and completion of Bachelor’s degree in biomedical sciences. This program requires partnerships between community colleges or other two-year post-secondary educational institutions granting the associate degree with colleges or universities that offer the baccalaureate degree. Additionally, recruitment and retention plans are required as part of the application. Application budgets are limited to $300K direct costs per year, for 5 years.

Bridges to the Doctorate (R25) - Limited Submission

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

Contact: Patrick H. Brown, 301-594-3900, patrick.brown@nih.gov

Solicitation number: PAR-17-209

This FOA will support creative educational activities with a primary focus on Courses for Skills Development and Research Experiences. The Bridges to Doctorate Program is intended to provide these educational activities to Master’s level students to increase transition to and completion of Ph.D.’s in biomedical sciences. A program application must include each educational activity, and describe how they will be synergized to make a comprehensive program. This program requires partnerships between master’s degree-granting institutions with doctorate degree-granting institutions. Additionally, recruitment and retention plans are required as part of the application. Application budgets are limited to $300,000 direct costs per year, for a maximum of 5 years.
Cancer Research Education Grants Program - Curriculum or Methods Development (R25)

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this NCI 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 the stated overarching goal, this FOA will support creative educational activities with a primary focus on Curriculum or Methods Development. Applications are encouraged that propose innovative, state-of-the-art programs that address the cause, diagnosis, prevention, or treatment of cancer, rehabilitation from cancer, or the continuing care of cancer patients and the families of cancer patients. The maximum budget is $150K direct costs/year. The budget request for a given application needs to be adequately justified and reflect the actual needs of the proposed project. Yearly fluctuations in the project workload should be reflected in the requested budget. The scope of the proposed project should determine the project period. The maximum project period is 2 years.

Interdisciplinary Research Teams to Investigate Reciprocal Basic Behavioral and Social Linkages Between Sleep and

This FOA encourages applications that develop, strengthen, and evaluate transdisciplinary approaches, methods, and investigative teams in basic behavioral, social, and/or biobehavioral research to generate fundamental knowledge of the reciprocal linkages between sleep and stress. Stress can result in sleep disruption due to both psychological as well as physiological changes. Sleep disruption can result in physiological changes; however, individuals may not recognize or identify impairment due to sleep disruption. This initiative supports the development of research teams to understand how basic individual, social, biological, and environmental factors interact in a dynamic relationship between sleep patterns and psychosocial stress to influence health, wellness, disease, and/or treatment adherence. 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 two years.
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.

Maximizing Investigators’ Research Award for Early Stage Investigators (R35)

National Institutes of Health

Contact: Kristine Willis, 301/594-0943, kristine.willis@mail.nih.gov

Solicitation number: PAR-17-190

The Maximizing Investigators’ Research Award (MIRA) under this FOA is a grant to provide support for the program of research in an early stage 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; and Enable investigators to devote more time and energy to mentoring trainees in a more stable research environment. Applications may request up to $250K direct costs per year. Applications may request a maximum project period of five years.

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.
Research to Action - Assessing and Addressing Community Exposures to Environmental Contaminants (R01)

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


Contact: Symma Finn, 919/541-4258, finns@niehs.nih.gov

Solicitation number: PA-16-083

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.

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.

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)

National Institutes of Health


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

Solicitation number: PAR-17-153

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.

Addressing Health Disparities in NIDDK Diseases (R01)

National Institutes of Health


Contact: Salina P. Waddy, 301-827-2241, NIDDKDisparitiesFOA@niddk.nih.gov

Solicitation number: PA-18-412

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.

Bioengineering Research Grant (BRG) (R01 Clinical Trial Optional)

National Institutes of Health


Contact: N/A, 301/402-7469, support@grants.gov

Solicitation number: PAR-18-206

The purpose of this funding opportunity announcement is to encourage collaborations between the life and physical sciences that: 1) apply a multidisciplinary bioengineering approach to the solution of a biomedical problem; and 2) integrate, optimize, validate, translate, or otherwise accelerate the adoption of promising tools, methods, and techniques for a specific research or clinical problem in basic, transitional, or clinical science and practice. An application may propose design-directed, developmental, discovery-driven, or hypothesis-driven research and is appropriate for small teams applying an integrative approach to increase our understanding of and solve problems in biological, clinical, or transitional science. Application budgets are not limited but need to reflect the actual needs of the project.
Promoting Caregiver Health Using Self-Management (R01 Clinical Trial Optional)

National Institutes of Health


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

Solicitation number: PA-18-150

The purpose of this initiative is to stimulate research in promoting caregiver health using self-management. Caregiving is an important science area since the number of people living longer with chronic conditions is growing. Informal caregivers (lay caregivers) are defined as unpaid individuals (spouses, partners, family members, friends, or neighbors) involved in assisting others with activities of daily living and/or medical tasks. Formal caregivers are paid, delivering care in one’s home or care settings (daycare, residential care facility). This concept focuses on informal caregivers.

Addressing Health Disparities through Effective Interventions among Immigrant Populations (R01 Clinical Trial Optional)

National Institutes of Health


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

Solicitation number: PA-18-284

The purpose of this FOA is to support innovative research to develop and implement effective interventions to address health disparities among U.S. immigrant populations. Projects should involve collaborations among relevant stakeholders in US immigrant population groups, such as researchers, community organizations, healthcare providers, public health organizations, consumer advocacy groups, and faith-based organizations. As appropriate for the research questions posed, inclusion of key immigrant 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. The focus of this FOA is specifically on immigrants who, once residing in the U.S., belong to one or more U.S. racial/ethnic minority populations (i.e. Blacks/African Americans, Hispanics/Latinos, Asians, or Pacific Islanders). Research is encouraged among distinct immigrant sub-populations based on the country of origin, rather than larger racial/minority populations when feasible (e.g., Koreans, Vietnamese, Cambodian, etc., rather than Asian Americans). For projects involving comparisons across populations, these comparisons should illuminate immigrant-specific phenomena rather than representing more global comparisons between immigrants with the non-Hispanic whites or the US general population. Research on refugees is not supported under this FOA. 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.

Research to Action: Assessing and Addressing Community Exposures to Environmental Contaminants (R01 Clinical Trial Optional)

National Institutes of Health


Contact: Symma Finn, 919/541-4258, finns@niehs.nih.gov

Solicitation number: PA-18-260

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. The two main objectives of this initiative, however, remain the same: 1) to conduct research to collect and characterize information about environmental health concerns of significance to a community and 2) to develop and implement a strategy to translate and disseminate research findings to community members, public health professionals and/or policymakers to support an action that will ultimately promote the reduction of exposure and reduce the health impact from environmental stressors. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.
Advancing Understanding, Prevention, and Management of Infections Transmitted from Women to their Infants (R
The purpose of this FOA is to stimulate investigations including translational, epidemiologic and clinical studies and trials that
improve the understanding, prevention and clinical outcomes of non-HIV infections transmitted from women to their offspring
during pregnancy, labor and delivery, and breastfeeding. NICHD is committed to supporting research that will increase scientific
understanding of and treatments for high-priority perinatal infections. 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.

Contact:  Nahida Chakhtoura, 301/435-6872, nahida.chakhtoura@nih.gov
Solicitation number:  PA-18-031

Clarifying the Relationship between Delirium and Alzheimer’s Disease and Related Dementias (R01 Clinical Trial O
This 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. Application budgets are not limited but need to reflect
the actual needs of the proposed project. The maximum project period is 5 years.
Understanding and Modifying Temporal Dynamics of Coordinated Neural Activity (R01 Clinical Trial Optional)

National Institutes of Health


Contact: Bettina Buhring, 301/443-1576, bettina.buhring@nih.gov

Solicitation number: PAR-18-555

A rich body of evidence suggests that optimal cognitive, affective, and social processes are associated with highly coordinated neural activity. These findings suggest that oscillatory rhythms, their co-modulation across frequency bands, spike-phase correlations, spike population dynamics, and other patterns might be useful drivers of therapeutic development for treatment of cognitive, social, or affective symptoms in neuropsychiatric disorders. This funding opportunity supports projects that test whether modifying electrophysiological patterns during behavior can improve cognitive, affective, or social processing. Applications must use experimental designs that incorporate active manipulations to address at least one, and ideally more, of the following topics: (1) in animals or humans, determine which parameters of neural coordination, when manipulated in isolation, improve particular aspects of cognitive, affective, or social processing; (2) in animals or humans, determine how particular abnormalities at the genomic, molecular, or cellular levels affect the systems-level coordination of electrophysiological patterns during behavior; (3) determine whether in vivo, systems-level electrophysiological changes in behaving animals predict analogous electrophysiological and cognitive improvements in healthy persons or clinical populations; and (4) use biologically-realistic computational models that include systems-level aspects to understand the function and mechanisms by which oscillatory and other electrophysiological patterns unfold across the brain to impact cognitive, affective, or social processing. This FOA uses the R01 grant mechanism, whereas its companion funding opportunity seeks shorter, higher-risk R21 grant applications. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

Hearing Health Care for Adults: Improving Access and Affordability (R01 Clinical Trial Optional)

National Institutes of Health


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

Solicitation number: PA-18-438

This FOA encourages applications for research on 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. Appropriate studies may include, but are not limited to, the following: Population based studies, Innovative models, Technologies, and/or Collaborative and Interdisciplinary Research. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

Underactive Bladder and Detrusor Activity in Aging (R01 Clinical Trial Optional)

National Institutes of Health


Contact: Candace Kerr, 301/827-4474, candace.kerr@nih.gov

Solicitation number: PA-18-570

This FOA invites applications that propose basic, clinical, or translational research on underactive bladder (UAB) and detrusor underactivity (DU) and its consequences in aging and in older persons. Applications should focus on the 1) biology, etiology and pathophysiology of DU or UAB in animal models and/or older adults; 2) translation of basic/clinical research into clinical practice and health decision making; 3) diagnosis, prevention, management and clinical outcomes of UAB in older adults; and/or 4) epidemiology and risk factors for the development of DU/UAB with advancing age. Research supported by this initiative should enhance knowledge of DU/UAB and its consequences in older adults and provide evidence-based guidance in the diagnosis, evaluation, and treatment of DU/UAB in older persons. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.
Women & Sex/Gender Differences in Drug and Alcohol Abuse/Dependence (R01 Clinical Trial Optional)

National Institutes of Health


Contact: Cora Lee Wetherington, 301/435-1319, cwetheri@nida.nih.gov

Solicitation number: PA-18-603

The purpose of this FOA is two-fold: (1) to advance identification of male-female differences in drug and alcohol research outcomes, to uncover the mechanisms of those differences, and to conduct translational research on those differences, and (2) to advance research specific to women or highly relevant to women. Both preclinical and clinical studies are sought across all areas of drug and alcohol research. As appropriate, research should be premised not only on the drug and alcohol literature base, but also on established knowledge bases of relevant broader scientific fields such as on lifespan development, gender-related sociocultural factors, sexual dimorphisms in the nervous system and other relevant biological systems such as the HPA and HPG axes. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum period is 5 years.

Understanding Processes of Recovery in the Treatment of Alcohol Use Disorder (R01 Clinical Trial Optional)

National Institutes of Health


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

Solicitation number: PA-18-619

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 total project period for an application submitted in response to this funding opportunity may not exceed 5 years.

Genetics of Alcohol Sensitivity and Tolerance (R01 Clinical Trial Not Allowed)

National Institutes of Health


Contact: Hemin Chin, 301/443-1282, chinh@mail.nih.gov

Solicitation number: PA-18-660

The overall objective of this FOA is to provide enhanced understanding of genetic, genomic, and epigenetic factors contributing to biological processes for individual variation in sensitivity, the development of tolerance, and progression to AUD. The projects under this FOA will develop innovative strategies integrating both experimental and bioinformatics approaches to establish causality for candidate genes from GWAS and linkage studies and to provide insights into genetic mechanisms of alcohol sensitivity and the development of tolerance through investigation of genomic, epigenetic, or transcriptional variation, and gene network and pathway analyses. Applicants are encouraged to consider model systems in which these complex relationships can be better studied under defined genetic backgrounds and well-controlled environmental conditions. 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.
Leveraging Cognitive Neuroscience to Improve Assessment of Cancer Treatment-Related Cognitive Impairment (R01)

National Institutes of Health


Contact: Jerry Suls, 240/276-6811, jerry.suls@nih.gov

Solicitation number: PAR-18-605

The purpose of this FOA is to encourage transdisciplinary research to improve traditional assessment of acute- and late-term cognitive changes following cancer treatment for non-central nervous system malignancies. Complaints of persistent cognitive deficits are common among the increasing population of cancer survivors, particularly those who have undergone adjuvant chemotherapy, hormone and/or molecularly-targeted cancer treatments. Systemically-treated cancer patients experience cognitive impairment during treatment, upon completion of regimens, and often as part of long-term survivorship. However, the specific nature and underlying mechanisms causing the cognitive impairments are often unclear. By leveraging advances in cognitive neuroscience, fundamental knowledge about the specific underlying mechanisms responsible for cognitive impairment may be obtained. This FOA seeks transdisciplinary research that will apply cognitive neuroscience theory and task paradigms, developed in the last three decades, for improved measurement and assessment of acute- and late-term cognitive changes following cancer treatment. With the application of cognitive neuroscience tasks for the longitudinal assessment of cancer patients (prior to the start of treatment, during treatment, and following treatment over time), we can more specifically measure cognitive impairment and its prevalence. In the absence of precise measurement, clinicians and survivors will remain uncertain about the nature of the cognitive difficulties and modes for remediation. Knowing whether a patient’s complaint, for example, about failing memory reflects poor attention and/or poor retrieval, can reduce uncertainty, inform care planning, and suggest possible accommodation strategies. The incorporation of cognitive neuroscience task paradigms into clinical assessment approaches has the potential to change cancer care planning. Traditional neuropsychological batteries, which are time consuming and complicated to administer, have been a barrier to widespread adoption of surveillance and clinical assessment of cognition in cancer patients and survivors exposed to systemic treatments. Application budgets are not limited but need to reflect the actual needs of the proposed project.

Improving Smoking Cessation in Socioeconomically Disadvantaged Populations via Scalable Interventions (R01)

National Institutes of Health


Contact: Yvonne Hunt, 240/276-6975, huntym@mail.nih.gov

Solicitation number: PAR-16-202

The purpose of this FOA is to provide support for highly innovative and promising intervention research designed to improve smoking cessation outcomes among socioeconomically disadvantaged populations. Specifically, this FOA is intended to stimulate research efforts aimed at the development of smoking cessation interventions that: 1) are targeted to socioeconomically disadvantaged populations, and 2) could be made scalable for broad population impact. Applicants may propose projects that develop and test novel cessation interventions with the potential to be scaled up, as well as projects that focus on enhancing the effectiveness, quality, accessibility, utilization, and cost-effectiveness of currently scaled smoking cessation interventions. This FOA provides funding for up to 5 years for research planning, intervention delivery, and follow-up activities.
Innovative Approaches to Studying Cancer Communication in the New Media Environment (R01)

National Institutes of Health


Contact: Kelly Blake, 240/281-5934, kelly.blake@nih.gov

Solicitation number: PAR-16-249

This FOA invites applications that seek to apply one or more innovative methodologies in communication research across the cancer control continuum, from prevention, early detection, diagnosis, treatment, and survivorship, to end of life. Applications to this FOA should utilize one or more of the following analytic approaches, methods, and data sources, including but not limited to social media data mining, Natural Language Processing (NLP) techniques, online social network analysis, crowdsourcing research tools (e.g., mTurk), online search data, Ecological Momentary Assessment, neuroscience and biobehavioral approaches to communication, and geographic information systems. Studies should assess outcomes related to cancer prevention and control (e.g., knowledge, attitudes, beliefs, perceived risk, decision making in screening and treatment, information inequalities, social support, shared decision making, persuasion, caregiving, behavioral intentions, preventive behaviors, and policy support, among others). This FOA runs in parallel with an FOA of identical scope, PAR-16-248, 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 maximum project period is 5 years.

NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01)

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


Contact: Michelle Jones-London, 301/451-7966, jonesmiche@ninds.nih.gov

Solicitation number: PAR-18-490

The purpose of this award is to diversify the pool of independent neuroscience research investigators and to enhance the opportunity to obtain independent NIH or other independent research support by providing junior faculty with research cost support, protected research time and career stage appropriate professional development mentorship in neuroscience research. Individuals from backgrounds underrepresented in biomedical research are eligible for support under this award if they have doctoral research degrees (Ph.D. or equivalent) and are in the first 3 years of a faculty tenure track or equivalent position at the time of award. Prior to preparing an application, individuals are strongly encouraged to contact the program officials to discuss their training and career development needs. The total project period may not exceed three years. NIH will contribute up to $85K per year toward the salary and up to $100K per year toward the research development costs of the award recipient.

NIAID Physician-Scientist Pathway to Independence Award (K99/R00 Clinical Trial Required)

National Institutes of Health


Contact: Shawn Gaillard, 240/627-3857, Shawn.Gaillard@nih.gov

Solicitation number: PAR-18-679

The purpose of the NIAID Physician-Scientist Pathway to Independence Award (K99/R00) program is to increase and maintain a strong cohort of new and talented independent physician-scientists. This program is designed to facilitate a timely transition of outstanding postdoctoral researchers with a clinical doctorate degree from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions. The program will provide independent NIAID research support during this transition to help awardees launch competitive, independent research careers in biomedical fields and thereby help to address the national physician-scientist workforce shortage. Award budgets are composed of salary and other program-related expenses, as described below. The total project period may not exceed 4 years.
NIH Small Research Grant Program (R03)

National Institutes of Health, Cross-Institute


Contact: 301/435-0714, GrantsInfo@nih.gov

Solicitation number: PA-18-488

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

10/16/2018 Application

NINDS Exploratory Neuroscience Research Grant (R21- Clinical Trial Optional)

National Institutes of Health


Contact: Timothy LaVaute, 301/496-1447, lavautetm@mail.nih.gov

Solicitation number: PA-18-358

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. 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.

10/16/2018 Full Application

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.

10/16/2018 Application
Integrative Research on Polysubstance Abuse and Addiction (R21)

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.

10/16/2018  Application

Advanced-Stage Development and Utilization of Research Infrastructure for Interdisciplinary Aging Studies (R33 - C

This FOA invites applications that propose to support advanced-stage development and utilization of novel research infrastructure to advance the science of aging in specific areas requiring interdisciplinary partnerships or collaborations. This FOA will use the NIH Exploratory/Developmental Grants Phase II mechanism to provide support for expanded activities. Applicants are expected to have an existing research infrastructure developed either through PA-12-064, or with other NIH or non-NIH support. Through this award, investigators will develop a mature and sustainable research infrastructure to support projects that address key interdisciplinary aging research questions. Applications submitted to this FOA should propose development of mature and sustainable research infrastructure to support projects that address key interdisciplinary research questions. The specific goals to be achieved should be clearly stated in the application for the proposed project, including an explanation of how the proposed activities will advance this emerging scientific area and why these goals will serve to advance or accelerate aging research beyond what can be achieved through existing programs or structures (e.g., integrating findings from basic, clinical, and behavioral research to accelerate the development of interventions to improve aging-related outcomes), utilizing established research infrastructure. This FOA is intended to support the development of existing interdisciplinary collaborations in significantly new directions. Reviewers will evaluate closely whether the application represents a substantial development in scientific focus as opposed to simply maintaining existing operations. Application budgets must remain under $500K in annual direct costs. The duration of the entire R33 award may not exceed 5 years.

10/16/2018  Application

NIDA Small Research Grant Program (R03 Clinical Trial Required)

The NIDA Small Research Grant Program supports small research projects that can be carried out in a short period of time with limited resources. This program supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. This FOA requires that at least 1 clinical trial be proposed. The proposed project must be related to the programmatic interests of NIDA. Application budgets are limited to $50K in direct costs per year. The total project period may not exceed two years.

10/16/2018  Application
BRAIN Initiative: New Concepts and Early-Stage Research for Large-Scale Recording and Modulation in the Nervous System

This FOA is related to the recommendations in sections II.2, II.3, and II.4 from the BRAIN 2025 Report. These three recommendations call for accelerated development of new large-scale recording technologies and tools for neural circuit manipulation. These new technologies and approaches will provide unprecedented opportunities for exploring how the nervous system encodes, processes, utilizes, stores, and retrieves vast quantities of information. A better understanding of this dynamic neural activity will enable researchers to seek new ways to diagnose, treat, and prevent brain disorders. Achieving these goals requires the ability to record simultaneously from thousands or tens-of-thousands of neurons contributing to the dynamic activity in a neural circuit. The relevant activity may be in clusters of cells packed closely together or may be in widely distributed circuits. Current microelectrode and imaging technologies are limited in the number of cells from which activity can be isolated and sampled simultaneously, by the size or location of the area to be sampled, by the depth of penetration, and by the invasiveness of the technique that might prohibit their use in human experimentation. Non-invasive technologies suitable for use in humans are currently limited in spatial resolution and temporal dynamics, as well as in their reflection of ongoing electrical activity in circuit elements. This FOA seeks entirely new ideas, concepts and/or approaches from physics and engineering, and biology, for how these limitations might be overcome to enable increased recording capabilities on the scale of one or more orders of magnitude beyond that of current technology. The combined direct cost budget for the two-year project period may not exceed $300K. No more than $200K may be requested in any single year.

Impact of the Use of Glucose Monitoring and Control Technologies on Health Outcomes and Quality of Life in Older Adults

This Funding Opportunity Announcement (FOA) encourages applications from institutions/organizations proposing clinical studies of the use of current and emerging technologies for monitoring of blood glucose and insulin administration in older adults. (aged 65 years or older) Older adults may have increased vulnerability to hypoglycemia, cognitive impairment and/or multiple co-morbidities which may affect the risks and benefits of these technologies in this population. This research is intended to improve health, glucose control and quality of life of older patients with type 1 diabetes. Only human studies will be considered responsive to this FOA; applications involving animal or in vitro studies are not responsive to this FOA.

Immune System Engineering For Targeted Tolerance in Type 1 Diabetes (R01 Clinical Trial Not Allowed)

Type 1 diabetes (T1D) results in part from the autoimmune-mediated dysfunction or destruction of insulin-producing pancreatic beta cells. This FOA is for projects that seek to discover ways to change the course of the disease by directly establishing tolerance. Immune responses could be engineered for tolerance induction through the manipulation of antigens, cells, or cellular microenvironments. Collaborations between T1D experts and investigators from other fields, including (but not limited to) cancer immunology and biomaterials engineering, are especially encouraged. Application budgets are limited to $300K direct costs per year. The maximum project period is 5 years.
11/6/2018  Letter of Intent
12/6/2018  Application

Impact of the Use of Glucose Monitoring and Control Technologies on Health Outcomes and Quality of Life in Older Adults

This FOA encourages applications from institutions/organizations proposing clinical studies of the use of current and emerging technologies for monitoring of blood glucose and insulin administration in older adults (aged 65 years or older). Older adults may have increased vulnerability to hypoglycemia, cognitive impairment and/or multiple co-morbidities which may affect the risks and benefits of these technologies in this population. This research is intended to improve health, glucose control and quality of life of older patients with type 1 diabetes. Only human studies will be considered responsive to this FOA; applications involving animal or invitro studies are not responsive to this FOA. Application budgets are limited to $500K direct costs per year, exclusive of indirect costs on subcontracts, per year. Budgets are expected 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.

Contact: Guillermo Arreaza-Rubin, 301/594-4724, arreazag@mail.nih.gov
Solicitation number: RFA-DK-17-024

11/6/2018  Letter of Intent
12/6/2018  Application

Clinical, Behavioral, and Physiological Research Testing Current and Novel Closed Loop Systems (R01 Clinical Trial)

This FOA encourages investigative teams to develop research projects applying diabetes technologies to improve clinical outcomes. Research is sought in three key areas: a) Clinical/behavioral research focused on enhancing the application of new technology for glucose sensing and insulin/pancreatic hormone delivery to improve glucose control and reduce hypoglycemia in patients with type 1 diabetes including high risk patients, b) Studies that use new technologies to better understand or improve physiological mechanisms affecting glucose control in type 1 diabetes, and c) Research to test and improve the efficacy, safety, accuracy and reliability of these new technologies in humans. Only clinical trials will be considered responsive to this FOA. The main goal of this FOA is to improve glucose control and quality of life of patients with type 1 diabetes. Only human studies will be considered responsive to this FOA; applications involving animal or invitro studies are not responsive to this FOA. Application budgets are limited to $500K direct costs per year, exclusive of indirect costs on subcontracts, per year. Budgets are expected to reflect the actual needs of the proposed project. The scope of the project period should determine the project period. The maximum project period is 4 years.

National Science Foundation (NSF)

Ongoing

NSF-FDA Scholar-in-Residence at FDA

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: Lynnette Madsen, 703/292-4936, lmadsen@nsf.gov

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. Budgets are typically $110K to $160K per year for each project; smaller budgets are permissible. Budgets in excess of $160K per year may be returned without review.

Arctic Research Opportunities

National Science Foundation, Office of Polar Programs


Contact: Anjuli Bamzai, 703/292-8688, abamzai@nsf.gov

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 five-year plans. The number of awards and average award size and duration are subject to the availability of funds.
Geobiology and Low-Temperature Geochemistry

The Geobiology and Low-Temperature Geochemistry Program focuses on geochemical processes in terrestrial Earth’s surface environmental systems, as well as the interaction of geochemical and biological processes. The program supports field, laboratory, theoretical, and modeling studies of these processes and related mechanisms at all spatial and temporal scales. Studies may address: 1) inorganic and/or organic geochemical processes occurring at or near the Earth’s surface now and in the past, and across the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 2) the role of life in the transformation and evolution of Earth’s geochemical cycles; 3) surficial chemical and biogeochemical systems and cycles, including their modification through environmental change and human activities; 4) low-temperature aqueous geochemical processes; 5) mineralogy and chemistry of earth materials; 6) geomicrobiology and biomineralization processes; and 7) medical mineralogy and geochemistry. The Program encourages research that focuses on geochemical processes as they are coupled with physical and biological processes in the critical zone. The Program also supports work on the development of tools, methods, and models for the advancement of low-temperature geochemistry and geobiology. Anticipated funding is $6.3M annually for 25-30 standard awards.

Sedimentary Geology and Paleobiology (SGP)

Sedimentary Geology and Paleobiology supports innovative research that addresses the deep-time sedimentary crust and advances our understanding of environmental and evolutionary change. The program seeks to fund projects that focus on: (1) the changing aspects of life, ecology, environments, and biogeography in geologic time based on fossil organisms and/or sedimentological data; (2) all aspects of the Earth’s sedimentary lithosphere – insights into the geological processes and rich organic and inorganic resources locked in rock sequences; (3) the science of dating and measuring the sequence of events and rates of geological processes as manifested in Earth's deep-time (pre-Holocene) sedimentary and biological (fossil) record; and (4) the geologic record of the production, transportation, and deposition of modern and ancient physical and chemical sediments.

NSF/FDA Scholar-in-Residence at FDA

The National Science Foundation (NSF), through the Directorate for Engineering, the Directorate of Computer and Information Science and Engineering Division of Computer and Network Systems, and the Directorate for Mathematical and Physical Sciences Division of Materials Research, along with the U.S. Food and Drug Administration (FDA), through its Center for Devices and Radiological Health (CDRH), have established the NSF/FDA Scholar-in-Residence Program at FDA. 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 computer science to develop research collaborations within the intramural research environment at the FDA. This solicitation features three flexible mechanisms for support of research at the FDA: 1) Principal Investigators at FDA; 2) Postdoctoral Researchers at FDA; and 3) Graduate Students at FDA.
High-Risk Research in Biological Anthropology and Archaeology (HRRBAA)

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


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

Solicitation number: NSF 08-523

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

Ongoing

Geomorphology and Land Use Dynamics

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 15-560

The Geomorphology and Land-use Dynamics Program supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that quantitatively investigates the coupling and feedback among such processes, their rates, and their relative roles, especially in the contexts of variation in climatic, biologic, and tectonic influences and in light of changes due to human impacts. Such research may involve fieldwork, modeling, experimentation, theoretical development, or combinations thereof. Anticipated funding is $5M for a total of 25 to 35 standard or continuing grants per year.

Ongoing

Earth Sciences: Instrumentation and Facilities (EAR/IF)

National Science Foundation


Contact: Russell Kelz, 703/292-4747, rkelz@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 promote research and education in areas supported by the Division. EAR/IF will consider proposals for: 1) Acquisition or Upgrade of Research Equipment that will advance laboratory and field investigations and student research training opportunities in the Earth sciences. The maximum request is $500K. The maximum request for upgrade of research group computing facilities remains $75K. 2) Development of New Instrumentation, Techniques or Software that will extend current research and research training capabilities in the Earth sciences. The maximum request is $500K. 3) Community Facility Support to make complex and expensive instruments, systems of instruments or services broadly available to the Earth science research and student communities. There are no maximum request limitations but potential proposers of new Community Facilities must contact cognizant Program Officers before submission.
Archaeology Program - Doctoral Dissertation Research Improvement Awards (Arch-DDRI)

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. DDRI awards may not exceed $20K over the duration of the three-year project period. The maximum project duration is 36 months.

Contact:  
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Solicitation number:  NSF 15-554

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 Bartosznynski, 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.

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


Solicitation number:  NSF 16-617
Plant Genome Research Program (PGRP)

This program supports genome-scale research that addresses challenging questions of biological, societal and economic importance. PGRP encourages the development of innovative tools, technologies and resources that empower a broad plant research community to answer scientific questions on a genome-wide scale. Emphasis is placed on the scale and depth of the question being addressed and the creativity of the approach. Data produced by plant genomics should be usable, accessible, integrated across scales and of high impact across biology. Training, broadening participation, and career development are essential to scientific progress and should be integrated in all PGRP-funded projects.

Two funding tracks are currently available:
1) RESEARCH-PGR TRACK: Genome-scale plant research to address fundamental biological questions in biology, including economically important processes of societal importance.
2) TRTech-PGR TRACK: Tools, resources and technology breakthroughs that further enable functional plant genomics.

Condensed Matter and Materials Theory (CMMT)

The CMMT program supports fundamental research that advances conceptual understanding of hard and soft materials, and materials-related phenomena; the development of associated analytical, computational, and data-centric techniques; and predictive materials-specific theory, simulation, and modeling for materials research. First-principles electronic structure, quantum many-body and field theories, statistical mechanics, classical and quantum Monte Carlo, and molecular dynamics, are among the methods used in the broad spectrum of research supported in CMMT. Research may encompass the advance of new paradigms in materials research, including emerging data-centric approaches utilizing data-analytics or machine learning. Computational efforts span from the level of 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 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. Areas of recent interest include, but are not limited to: strongly correlated electron systems; active matter; topological phases; low-dimensional materials and systems; quantum and classical nonequilibrium phenomena, the latter including pattern formation, materials growth, microstructure evolution, fracture, and the jamming transition; gels; glasses; disordered materials, hard and soft; defects; high-temperature superconductivity; nanostructured materials and mesoscale phenomena; creation and manipulation of coherent quantum states; polymeric materials and soft condensed matter, biologically inspired materials, and research at the interface with biology.

Re-entry to Active Research Program (RARE)

The primary objective of the RARE program is to catalyze the advancement along the academic tenure-track of highly meritorious individuals who are returning from a hiatus from active research. By providing re-entry points to active academic research, the RARE program will reinvest in the nation’s most highly trained scientists and engineers, while broadening participation and increasing diversity of experience. A RARE research proposal must describe potentially transformative research that falls within the scope of participating CBET programs. Investigators must contact a RARE program director to confirm eligibility prior to submission. The investigator must hold a PhD in engineering or a closely related discipline, with prior research experiences in an area within the scope of the Division of Chemical, Bioengineering, Environmental, and Transport Systems. Awards are approximately $300k each.
Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR)

The CEDAR program is a broad-based research program with the goal of understanding the behavior of atmospheric regions from the middle atmosphere upward through the thermosphere and ionosphere into the exosphere in terms of coupling, energetics, chemistry, and dynamics on regional and global scales. These processes are related to the sources of perturbations that propagate upward from the lower atmosphere as well as to solar radiation and particle inputs from above. The activities within this program combine observations from ground based and space based platforms, theory and modeling. Funding is pending availability of funds.

Contact: Ruth Lieberman, 703/292-8529, rlieberm@nsf.gov

Geospace Environment Modeling (GEM)

GEM is a broad-based research program investigating the physics of the Earth's magnetosphere and the coupling of the magnetosphere to the atmosphere and to the solar wind. The goal of the GEM program is to make accurate predictions of the geospace environment by developing physical understanding of the large-scale organization and dynamics from observations, theory, and increasingly realistic models. The typical award size is approximately $120K per year with a duration of three years. The maximum award size is $150K per year.

Contact: Carrie Black, 703/292-2426, cblack@nsf.gov

Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering

The goal of this program is to rapidly accelerate quantum materials design, synthesis, characterization, and translation of fundamental materials engineering and information research for quantum devices, systems, and networks. NSF aims to support these goals by establishing Foundries with mid-scale infrastructure for rapid prototyping and development of quantum materials and devices. The new materials, devices, tools and methods developed by Q-AMASE-i will be shared with the science and engineering communities through a Foundry-operated network. Technology transfer of Foundry activities will be enabled by close cooperation with industrial partners. Six-year awards totaling $20,000,000 to $25,000,000 for the award period are anticipated.

Proposed activities should include transdisciplinary teams of scientists and engineers and should propose new concepts involving quantum materials that enable robust, efficient devices and novel system architectures, while deploying and integrating a data-harnessing community infrastructure within the discovery process. The activities should be designed to accelerate fundamental understanding of the physics of materials, their structure, property, and processing relationships, as well as associated device performance optimization for rapid technology development.
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.

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).

10/2/2018 Large Projects
10/2/2018 Medium Projects
11/15/2018 Small Projects
9/16/2018 Medium Projects
9/25/2019 Large Projects
11/14/2019 Small Projects

Computer and Network Systems (CNS): Core Programs

National Science Foundation


Contact: Mimi McClure, 703/292-8950, mmcclure@nsf.gov

Solicitation number: NSF 18-569

CISE’s Division of Computer and Network Systems (CNS) supports research and education projects that take a system-oriented approach to the development of novel computing and networking technologies, or to the enhancement of existing systems in any of several dimensions, or that explore new ways to make use of existing technologies.

Proposers are invited to submit proposals in three project classes, which are defined as follows:
Small Projects - up to $500,000 total budget with durations up to three years;
Medium Projects - $500,001 to $1,200,000 total budget with durations up to four years; and
Large Projects - $1,200,001 to $3,000,000 total budget with durations up to five years.
Leading Engineering for America's Prosperity, Health, and Infrastructure (LEAP HI)

The LEAP HI program challenges the engineering research community to take a leadership role in addressing demanding, urgent, and consequential challenges for advancing America’s prosperity, health and infrastructure. LEAP HI proposals confront engineering problems that are too complex to yield to the efforts of a single investigator — problems that require sustained and coordinated effort from interdisciplinary research teams, with goals that are not achievable through a series of smaller, short-term projects. LEAP HI projects perform fundamental research that may lead to disruptive technologies and methods, lay the foundation for new and strengthened industries, enable notable improvements in quality of life, or re-imagine and revitalize the built environment. LEAP HI supports fundamental research projects involving collaborating investigators, of duration up to five years, with total budget between $1 million and $2 million.

Prediction of and Resilience against Extreme Events (PREEVENTS)

PREEVENTS is focused on natural hazards and extreme events, and not on technological or deliberately human-caused hazards. The PREEVENTS portfolio will include the potential for disciplinary and multidisciplinary research at all scales, particularly aimed at areas ripe for significant near- or medium-term advances. PREEVENTS seeks projects that will (1) enhance understanding of the fundamental processes underlying natural hazards and extreme events on various spatial and temporal scales, as well as the variability inherent in such hazards and events, and (2) improve our capability to model and forecast such hazards and events. The two program tracks available are: Track 1 (Conferences) proposals may be submitted for conferences that will foster development of interdisciplinary or multidisciplinary communities required to address complex questions surrounding natural hazards and extreme events; and Track 2 which welcomes proposals addressing both primary targets described above, but which may extend beyond what is typically supported by GEO “core” programs due to the scope, scale, and/or complexity of the problem to be studied or approaches to be used; because the problem requires a multidisciplinary approach spanning multiple GEO programs or divisions; or for other similar programmatic reasons. Budgets for Track 1 proposals are generally limited to less than $50K, but under exceptional circumstances may be up to $100K. Track 2 proposals may be submitted for durations of up to five years. Project durations and budgets must be commensurate with the scope of the work proposed, and with guidance provided elsewhere in this solicitation regarding anticipated program resources.

Earth Sciences Postdoctoral Fellowships (EAR-PF)

The Division of Earth Sciences (EAR) awards Postdoctoral Fellowships to recent recipients of doctoral degrees to conduct an integrated program of independent research and professional development. Fellowship proposals must address scientific questions within the scope of EAR disciplinary programs and must align with the overall theme for the postdoctoral program. The program supports researchers for a period of up to two years with fellowships that can be taken to the institution of their choice (including institutions abroad). The program is intended to recognize beginning investigators of significant potential, and provide them with research experience, mentorship, and training that will establish them in leadership positions in the Earth Sciences community. Because the fellowships are offered only to postdoctoral scientists early in their career, doctoral advisors are encouraged to discuss the availability of EAR postdoctoral fellowships with their graduate students early in their doctoral programs. Fellowships are awards to individuals, not institutions, and are administered by the Fellows.
**Cooperative Studies Of The Earth's Deep Interior (CSEDI)**

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 11-548

Funding will support basic research on the character and dynamics of the Earth's mantle and core, their influence on the evolution of the Earth as a whole, and on processes operating within the deep interior that affect or are expressed on the Earth's surface. Projects may employ any combination of field, laboratory, and computational studies with observational, theoretical, or experimental approaches. Support is available for research and research infrastructure through grants and cooperative agreements awarded in response to investigator-initiated proposals from U.S. universities and other eligible institutions. Multidisciplinary work is required.

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**Innovations at the Nexus of Food, Energy and Water Systems (INFEWS)**

National Science Foundation


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

Solicitation number: NSF 18-545

The overarching goal of the INFEWS program is to catalyze well-integrated, convergent research to transform understanding of the FEW Nexus as integrated social, engineering, physical, and natural systems in order to improve system function and management, address system stress, increase resilience, and ensure sustainability. The NSF INFEWS activity is designed specifically to attain the following goals: 1) Significantly advance our understanding of the food-energy-water system of systems through quantitative, predictive and computational modeling, including support for relevant cyberinfrastructure; 2) Develop real-time, cyber-enabled interfaces that improve understanding of the behavior of FEW systems and increase decision support capability; 3) Enable research that will lead to innovative and integrated social, engineering, physical, and natural systems solutions to critical FEW systems problems; 4) Grow the scientific workforce capable of studying and managing the FEW system of systems, through education and other professional development opportunities. Funding is subject to availability.

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**Innovations in Graduate Education (IGE) Program - Limited Submission**

National Science Foundation


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

Solicitation number: NSF 17-585

The IGE program is designed to encourage the development and implementation of bold, new, and potentially transformative approaches to STEM graduate education training. The 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.

IGE focuses on projects aimed at piloting, testing, and validating innovative and potentially transformative approaches to graduate education. IGE projects are intended to generate the knowledge required for their customization, implementation, and broader adoption. The program supports testing of novel models or activities with high potential to enrich and extend the knowledge base on effective graduate education approaches. Awards are expected to be up to three (3) years in duration with a total budget between $300k and $500k.
Division of Chemistry: Disciplinary Research Programs (CHE-DRP)

National Science Foundation


Contact: varies

Solicitation number: NSF 18-561

This solicitation represents a new and enhanced mechanism for the chemistry research community to submit individual or small team research proposals to the NSF Division of Chemistry's disciplinary research programs. PIs may consult the individual program or use the NSF award search engine to search for awards by program or Program Officer.

This solicitation applies to nine CHE Disciplinary Chemistry Research Programs: Chemical Catalysis (CAT); Chemical Measurement and Imaging (CMI); Chemical Structure, Dynamics and Mechanisms-A (CSDM-A); Chemical Structure Dynamics and Mechanisms-B (CSDM-B); Chemical Synthesis (SYN); Chemical Theory, Models and Computational Methods (CTMC); Chemistry of Life Processes (CLP); Environmental Chemical Sciences (ECS); and Macromolecular, Supramolecular and Nanochemistry (MSN).

All proposals submitted to these nine CHE Disciplinary Research Programs (other than the following exceptions) must be submitted through this solicitation, otherwise they will be returned without review.

Computing and Communication Foundations (CCF): Core Programs

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


Contact: John Cozzens, 703/292-8910, jcozzens@nsf.gov

Solicitation number: NSF 18-568

This FOA supports transformative research and education projects that explore the foundations of computing and communication in three core programs: 1) The Algorithmic Foundations (AF) program; 2) The Communications and Information Foundations (CIF) program; 3) The Foundations of Emerging Technologies (FET) program; and 4) The Software and Hardware Foundations (SHF) program.

Proposers are invited to submit proposals in two project classes, which are defined as follows: 1) Small Projects - up to $500K total budget with durations up to three years; 2) Medium Projects - $500K to $1.2M total budget with durations up to four years.

Information and Intelligent Systems (IIS): Core Programs

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


Contact: Varies with research interest

Solicitation number: NSF 18-570

IIS supports research and education activities that 1) develop new knowledge about the role of people in the design and use of information technology; 2) increase our capability to create, manage, and understand data and information in circumstances ranging from personal remote devices to globally-distributed systems; and 3) advance our understanding of how computational systems can exhibit the hallmarks of intelligence.
**SBE Postdoctoral Research Fellowships (SPRF)**

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


Contact: Josie S. Welkom, 703/292-7376, jwelkom@nsf.gov

Solicitation number: NSF 17-588

SBE offers Postdoctoral Research Fellowships in two tracks: 1) Broadening Participation (SPRF-BP) which aims to increase the diversity of researchers who participate in NSF programs in the social, behavioral and economic sciences and thereby increase the participation of scientists from under-represented groups in selected areas of science in the United States; and 2) Interdisciplinary Research in Behavioral and Social Sciences (SPRF-IBSS), which aims to support interdisciplinary training where at least one of the disciplinary components is an SBE science. Salary plus fringe benefits (per institutional rates) are not to exceed $62K per year for a maximum of two years. Research and travel expenses may run up to $10K per year.

**NSF Astronomy and Astrophysics Postdoctoral Fellowships (AAPF)**

National Science Foundation, Mathematical and Physical Sciences (MPS)


Contact: Harshal Gupta, 703/292-5039, hgupta@nsf.gov

Solicitation number: NSF 16-575

NSF Astronomy and Astrophysics Postdoctoral Fellowships provide an opportunity for highly qualified, recent doctoral scientists to carry out an integrated program of independent research and education. Fellows may engage in observational, instrumental, theoretical, laboratory or archival data research in any area of astronomy or astrophysics, in combination with a coherent educational plan for the duration of the fellowship. The program supports researchers for a period of up to three years with fellowships that may be taken to eligible host institution(s) of their choice. The program is intended to recognize early-career investigators of significant potential and to provide them with experience in research and education that will establish them in positions of distinction and leadership in the community.

**Advancing Digitization of Biological Collections (ADBC) - Limited Submission**

National Science Foundation


Contact: biodigit@nsf.gov

Solicitation number: NSF 15-576

This program seeks to enhance and expand the national resource of digital data documenting existing vouchered biological and paleontological collections and to advance scientific knowledge by improving access to digitized information (including images) residing in vouchered scientific collections across the United States. The information associated with various collections of organisms, such as geographic, paleogeographic and stratigraphic distribution, environmental habitat data, phenology, information about associated organisms, collector field notes, and tissues and molecular data extracted from the specimens, is a rich resource providing the baseline from which to further biodiversity research and provide critical information about existing gaps in our knowledge of life on earth.
Advanced Technological Education (ATE)

National Science Foundation, Education and Human Resources (EHR)

Contact: Varies with research interest
Solicitation number: NSF 18-571

With an emphasis on two-year Institutions of Higher Education (IHEs), the Advanced Technological Education (ATE) program focuses on the education of technicians for the high-technology fields that drive our nation's economy. The program involves partnerships between academic institutions (grades 7-12, IHEs) and industry to promote improvement in the education of science and engineering technicians at the undergraduate and secondary institution school levels. The ATE program supports curriculum development; professional development of college faculty and secondary school teachers; career pathways; and other activities. The program invites research proposals that advance the knowledge base related to technician education. It is expected that projects will be faculty driven and that courses and programs credit bearing, although materials developed may also be used for incumbent worker education.

Mathematical Sciences Postdoctoral Research Fellowships (MSPRF)

National Science Foundation

Contact: Victor Roytburd, 703/292-8584, vroytbur@nsf.gov
Solicitation number: NSF 16-558

The purpose of this program is to support future leaders in mathematics and statistics by facilitating their participation in postdoctoral research environments that will have maximal impact on their future scientific development. There are two options for awardees: Research Fellowship which provides full-time support for any eighteen academic-year months in a three-year period, in intervals not shorter than three consecutive months; and Research Instructorship which provides a combination of full-time and half-time support over a period of three academic years, usually one academic year full-time followed by two academic years half-time. Awards will support research in areas of mathematics and statistics, including applications to other disciplines. Fellowship awards are for a total of $150K, with a possible additional allowance of up to $20K for awards with international host institutions.

Joint DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences (DM

National Science Foundation, Mathematical and Physical Sciences (MPS)

Contact: Varies
Solicitation number: NSF 18-566

The Division of Mathematical Sciences (DMS) in the Directorate for Mathematical and Physical Sciences (MPS) at the National Science Foundation (NSF) and the National Institute of General Medical Sciences (NIGMS) at the National Institutes of Health (NIH) plan to support fundamental research in mathematics and statistics necessary to answer questions in the biological and biomedical sciences. Both agencies recognize the need to promote research at the interface between mathematical and life sciences. This program is designed to encourage new collaborations, as well as to support innovative activities by existing teams.
NSF/DOE Partnership in Basic Plasma Science and Engineering

National Science Foundation, Cross-Directorate


Contact: Varies with research interest

Solicitation number: NSF 16-564

The goals of this program initiative is to enhance plasma research and education in this broad, multidisciplinary field by coordinating efforts and combining resources of the two agencies. The initiative will address fundamental issues in plasma science and engineering that can have impact in other areas or disciplines in which improved basic understanding of the plasma state is needed. The current solicitation also encourages submission of proposals to perform basic plasma experiments at NSF and DOE supported user facilities, such as the Basic Plasma Science Facility at the University of California, Los Angeles, designed to serve the needs of the broader plasma community. Award sizes are anticipated to range from $25K to $250K per year with a duration of up to three years, depending upon the nature of the research activity.

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.

Smith Richardson Foundation Grants

Smith Richardson Foundation

https://www.srf.org/

Contact: Varies with research interest

Solicitation number:

The two principal grant-making programs are: the International Security and Foreign Policy Program, with the objective of assisting the U.S. policy community in developing effective national security strategies and foreign policies, and the Domestic Public Policy Program, which supports projects that will help the public and policy makers understand and address critical challenges facing the United States. Requests for grants of $50K or less are reviewed on an ongoing basis. Requests for grants greater than $50K and for multi-year grant support are made at regular board meetings. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Asia Responsive Grants
Henry Luce Foundation
http://www.hluce.org/asiarespongrant.aspx
Contact: 212/489-7700, hlf1@hluce.org
Solicitation number:
These grants provide opportunities to improve understanding between the United States and the Asia-Pacific region. They typically support research, create new scholarly and public resources, or promote the exchange of ideas and information between Americans and Asians. These grants are limited to work in the humanities and social sciences concerned with Northeast and Southeast Asia, typically for longer-term programs or projects that respond to the needs and priorities of the Asian studies field and benefit a wide range of scholars and institutions. Requests for funding may be submitted at any time during the year, beginning with a brief letter of inquiry. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

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

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

Public Welfare Grants
Public Welfare Foundation
http://www.publicwelfare.org/grants-process/
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.
Committee for Research and Exploration Grant

National Geographic Society

http://www.nationalgeographic.com/field/grants-programs/cre-application/

Contact: cre@ngs.org

Solicitation number:

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

FSSS Grants-in-Aid Program

The Foundation for the Scientific Study of Sexuality (FSSS)

http://www.sexscience.org/honors/fsss_grants_in_aid_program/

Contact:

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/

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

Solicitation number:

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

Lumina Grants

Lumina Foundation

http://www.luminafoundation.org/grants.html

Contact: Candace Brandt, 317/951-5300

Solicitation number:

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

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

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

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Ongoing

**Conservation Trust Grant**
National Geographic Society
Contact: conservationtrust@ngs.org

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

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Ongoing

**Pollock-Krasner Grants**
The Pollock-Krasner Foundation, Inc.
http://pkf.org/our-grants/
Contact: 212/517-5400, grantapplication@pkf.org

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

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Ongoing

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

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

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

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

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

**Humanities Research Projects**

Gerda Hengel Foundation

[http://www.gerda-henkel-stiftung.de/research_grants](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.

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Ongoing

**Research Grants for PhD Candidates**

Horowitz Foundation for Social Policy


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.

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Ongoing

**Practitioner Bellagio Residency**

Rockefeller Foundation


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.

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Ongoing

**Open Society Fellowship**

Open Society Foundations

[http://www.opensocietyfoundations.org/grants/open-society-fellowship](http://www.opensocietyfoundations.org/grants/open-society-fellowship)

Contact: OSFellows@opensocietyfoundations.org

Solicitation number:

The Open Society Fellowship supports individuals pursuing innovative and unconventional approaches to fundamental open society challenges. The fellowship funds work that will enrich public understanding of those challenges and stimulate far-reaching and probing conversations within the Open Society Foundations and in the world. A fellowship project might identify a problem that has not previously been recognized, develop new policy ideas to address familiar problems, or offer a new advocacy strategy. Project themes should cut across at least two areas of interest to the Open Society Foundations. Among these are human rights, government transparency, access to information and to justice, and the promotion of civil society and social inclusion. Full-time fellows may receive up to a $100K stipend.
Targeted Grants in Mathematics and Physical Sciences
Simons Foundation
https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/targeted-grants-in-mps/
Contact: Elizabeth Roy, 212-524-6966, mps@simonsfoundation.org
Solicitation number:
The program is intended to support high-risk projects of exceptional promise and scientific importance on a case-by-case basis. A typical Targeted Grant in MPS provides funding for up to five years. The funding provided is flexible and based on the type of support requested in the proposal. Expenses for experiments, equipment, or computations, as well as for personnel and travel, are allowable.

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

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.
Submit a Pioneering Ideas Brief Proposal

Robert Wood Johnson Foundation

Ongoing

Contact:

Solicitation number:
The goal of the Pioneering Ideas Brief Proposal funding opportunity is to explore; to look into the future and put health first as we design for changes in how we live, learn, work and play; to wade into uncharted territory in order to better understand what new trends, opportunities and breakthrough ideas can enable everyone in America to live the healthiest life possible. Keep in mind that ultimately, we need you to challenge us, and to tell us where we should be going and what ideas have the most potential to transform the way we think about health. As you review the examples, you may notice some shared themes or characteristics which: Challenge assumptions or long-held cultural practices; Take an existing idea and give it a new spin—or a novel application; Offer a new take or perspective on a long-running, perplexing problem; Apply cutting-edge ideas from other fields to health; Explore the potential for emerging trends to impact our ability to build a Culture of Health.

Brimstone Award for Applied Storytelling

National Storytelling Network
https://storynet.org/about-nsn/awards/brimstone-award/

Ongoing

Contact: 800/525-4514

Solicitation number:
The National Storytelling Network seeks to support a community-focused project that focuses on the transformative properties of storytelling in individuals and communities. NSN will provide the winning project an award of $5K, after carefully considering these questions: What will have been transformed at the end of this project? What stories will have been told? What role will applied storytelling have played? Who will have told these stories? Where? To what purpose? How will this project communicate to new audiences or in new ways about the possibilities of applied storytelling? Applicants who are not members of the National Storytelling Network must pay the current membership fee to join the National Storytelling Network before the application will be considered and continue to be members for the term of the funded project.

Women in STEM²D Scholars Program - Limited Submission

Johnson & Johnson
https://www.jnj.com/wistem2d

Ongoing

Contact:

Solicitation number:

This program aims to fuel the development of female STEM2D leaders and feed the STEM2D talent pipeline by awarding and sponsoring women at critical points in their research careers, in each of the STEM2D disciplines: Science, Technology, Engineering, Math, Manufacturing and Design.

The awards will fund one woman per discipline who has completed her advanced degree, who is working as an assistant professor and who is not yet tenured at an accredited university or design institution. The goal is to fuel the research passion of the awarded women and inspire career paths in their respective STEM2D fields. The award is approximately $150k over three years.
**Abe Fellowship Program**  
Social Science Research Council  
http://www.ssrc.org/fellowships/abe-fellowship/  
Contact: 212/377-2700, abe@ssrc.org  
Solicitation number:  
The Abe Fellowship is designed to encourage international multidisciplinary research on topics of pressing global concern. The program seeks to foster the development of a new generation of researchers who are interested in policy-relevant topics of long-range importance and who are willing to become key members of a bilateral and global research network built around such topics. It strives especially to promote a new level of intellectual cooperation between the Japanese and American academic and professional communities committed to and trained for advancing global understanding and problem solving. Applicants are invited to submit proposals for research in the social sciences and related disciplines relevant to any one or any combination of the themes: 1) Traditional and non-traditional approaches to security and diplomacy; 2) Global and regional economic issues; and 3) Social and cultural issues. The program provides Abe Fellows with a minimum of 3 and maximum of 12 months of full-time support over a 24 month period. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

**Simons Investigators in the Mathematical Modeling of Living Systems - Limited Submission**  
Simons Foundation  
https://www.simonsfoundation.org/mathematics-physical-sciences/simons-investigators/simons-investigator-program-nomination  
Contact:  
Solicitation number:  
The Simons Foundation requests nominations for the Simons Investigators in the Mathematical Modeling of Living Systems program. The MMLS program aims to support theoretical approaches making important contributions to the life sciences and, thus, to foster a scientific culture of theory-experiment collaborations similar to that prevailing in physics. To encourage researchers to pursue this endeavor, the MMLS program will provide a long-term, stable base of support, enabling a focus on model-based approaches to important issues in the life sciences. UCSB may nominate two candidates. A Simons Investigator in MMLS is appointed for a period of five years for up to $132,000 per year.  

A broad spectrum of research areas within the life sciences will be considered, ranging from cellular-level issues of organization, regulation, signaling and morphogenic dynamics to the properties of organisms and ecology, as well as neuroscience and evolution; however, preference will be given to areas in which modeling approaches are less established. A Simons Investigator in MMLS is appointed for a period of five years for up to $132,000 per year.

**Memory and Cognitive Disorders Awards**  
The McKnight Endowment Fund for Neuroscience  
Contact: Eileen Maler, 612/333-4220, emaler@mcknight.org  
Solicitation number:  
These awards support innovative efforts to solve the problems of neurological and psychiatric diseases, especially those related to memory and cognition. They encourage research aimed at translating laboratory discoveries about the brain and nervous system into diagnoses and therapies to improve human health. Collaborative projects between basic and clinical neuroscientists are welcomed, as are proposals that help link basic with clinical neuroscience. The maximum award provides $100K per year for three years.
Systems for Action: Systems and Services Research for a Culture of Health

Robert Wood Johnson Foundation


Contact:

Solicitation number:

Systems for Action (S4A) is a signature research program of the Robert Wood Johnson Foundation (RWJF) that builds a Culture of Health by rigorously testing new ways of connecting the nation’s fragmented medical, social, and public health systems. Studies conducted through the S4A program test innovative mechanisms for aligning the delivery and financing systems for medical, social, and public health services, with a focus on estimating their impact on health and health equity. S4A uses a wide research lens that includes and extends beyond medical care and public health to incorporate social service systems—such as housing; transportation; education; employment; food and nutrition assistance; child and family support; criminal and juvenile justice; and economic and community development. This call will support studies that can be completed over a 24-month period with up to $250,000 each in total funding from RWJF.

Guggenheim Fellowships

John Simon Guggenheim Memorial Foundation

http://www.gf.org/applicants/apply/

Contact: 212/687-4470

Solicitation number:

The John Simon Guggenheim Memorial Foundation provides fellowships for advanced professionals in all fields (natural sciences, social sciences, humanities, creative arts) except the performing arts. The fellowships are intended to further the development of scholars and artists by assisting them to engage in research in any field of knowledge and creation in any of the arts, under the freest possible conditions. Fellowships are grants to selected individuals made for a minimum of six months and a maximum of twelve months. Since the purpose of the program is to help provide fellows with blocks of time in which they can work with as much creative freedom as possible, grants are made freely. No special conditions attach to them, and fellows may spend their grant funds in any manner they deem necessary to their work.

Sloan Research Fellowships - Limited Submission

Alfred P. Sloan Foundation

http://www.sloan.org/fellowships

Contact: 212/649-1649, researchfellows@sloan.org

Solicitation number:

The Sloan Research Fellowships seek to stimulate fundamental research by early-career scientists and scholars of outstanding promise. Candidates for Sloan Research Fellowships are required to: hold a PhD in chemistry, computational or evolutionary molecular biology, computer science, economics, mathematics, neuroscience, ocean science (including marine biology), physics, or a related field; be members of the regular teaching faculty (i.e., tenure track) of a degree-granting college or university in the United States or Canada; and normally, be no more than six years from completion of their most recent PhD as of the year of their nomination. This fellowship awards $50K over a two-year period and may be used for any activity supportive of the fellow’s research, such as equipment, technical assistance, professional travel, or trainee support. Candidates must be nominated by a department head, with no more than three candidates per department. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Scientific Innovations Award 2019 - Limited Submission

Brain Research Foundation

https://www.thebrf.org/for-researchers/scientific-innovations-award-2/

Contact: 312/759-5150, info@thebrf.org

This program provides funding for innovative science in both basic and clinical neuroscience. This funding mechanism is designed to support creative, exploratory, cutting edge research in well-established research laboratories, under the direction of established investigators. Funding is to be directed at projects that may be too innovative and speculative for traditional funding sources but still have a high likelihood of producing important findings. This should be a unique project for senior investigators who are encouraged to stretch their imagination into areas that can substantially change an area of research. To be eligible, the nominated candidate must be a full-time professor or associate professor at an invited US institution, working in the area of studies of brain function in health and disease. Current major NIH or other peer-reviewed funding is preferred but evidence of such funding in the past three years is essential. Studies should be related to either normal human brain development or specifically identified disease states. This includes molecular and clinical neuroscience as well as studies of neural, sensory, motor, cognitive, behavioral and emotional functioning in health and disease. Awards are limited to $150K in direct costs for a two year grant period.

AWS Cloud Credits for Research

Amazon

https://aws.amazon.com/research-credits/

Contact:

Solicitation number:

The AWS Cloud Credits for Research Program (formerly AWS Research Grants) supports researchers who seek to: 1) Build cloud-hosted publicly available science-as-a-service applications, software, or tools to facilitate their future research and the research of their community. 2) Perform proof of concept or benchmark tests evaluating the efficacy of moving research workloads or open data sets to the cloud. 3) Train a broader community on the usage of cloud for research workloads via workshops or tutorials.

Blue Future

West Marine

https://www.westmarine.com/BlueFuture/Grants

Contact: bluefuture@westmarine.com

Solicitation number:

West Marine offers two BlueFuture grant cycles each year that benefit nonprofit organizations dedicated to youth waterlife recreation and education. Our grants provide much-needed funds so these valuable, community-based organizations may provide scholarships, purchase new equipment, maintain staff, add programs and do so much more.

Pew Scholars Program in the Biomedical Sciences 2019 - Limited Submission

The Pew Charitable Trusts

http://www.pewtrusts.org/en/projects/pew-biomedical-scholars/program-details

Contact: Kara Coleman

Solicitation number:

The Pew Scholars Program in the Biomedical Sciences provides funding to young investigators of outstanding promise in science relevant to the advancement of human health. The program makes grants to selected academic institutions to support the independent research of outstanding individuals who are in their first few years of their appointment at the assistant professor level. The current grant level is $240,000; $60,000 per year for a four-year period. In 2017, Pew will name the next class of Pew scholars.
**Resident Scholars Program**

**UC MEXUS**

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