Campus and Agency News

CHANGES IN THE RESEARCH DEVELOPMENT OFFICE

After over 10 years at the helm of Research Development, Meredith Murr, Assistant Vice Chancellor for Research Development and Strategic Planning, has tendered her resignation from the Office of Research. Meredith's last official day with UCSB will be July 27th.

With exemplary leadership, Meredith has helped our faculty obtain the resources and support they need to perform world-class research, with ever-expanding reach and impact. Her dedication and strategic vision has contributed to a near-record year of funding for FY17-18. She has been an extraordinary resource for the campus and will be sorely missed.

Meredith will be putting her considerable talents to an important cause as she volunteers her time in the upcoming national midterm elections, and, following that, will pursue new professional opportunities.

For questions relating to Research Development after July 27th, please contact Andrea Stith, Associate Director of Research Development for Science & Engineering.

Please join the Research Development team in wishing Meredith well in her future endeavors and in thanking her for the outstanding leadership and service to campus.

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 (DCL): Removal of Deadlines for the Secure and Trustworthy Cyberspace (SaTC) Program

In order to allow principal investigators (PIs) more flexibility and to better facilitate interdisciplinary research across all disciplines, SaTC is removing deadlines for submission of solicited proposals across all its designations [CORE, Transition to Practice (TTP), and Education (EDU)] and size categories (Small, Medium), effective October 1, 2018. Another associated change is that individuals may participate as a PI, co-PI or senior personnel in at most three SaTC proposals in a given fiscal year (i.e., October 1 through September 30), including in at most one proposal designated as CORE; at most one proposal designated as TTP; and at most one proposal designated as EDU. These limits are unrelated to any limits imposed in other NSF program solicitations. By accepting proposals at any time, PIs will have the opportunity to think more creatively, build strong collaborations, converse with Program Directors and carefully prepare proposals with the potential to make significant research and education contributions.

Dear Colleague Letter: Research Experience for Teachers (RET): Funding Opportunity in the Biological Sciences
This DCL is to call your attention to a long-standing opportunity that enables K-12 science educators to participate in projects funded by the Directorate for Biological Sciences (BIO) at the National Science Foundation (NSF). The goal of the Research Experiences for Teachers (RET) activity is to enhance the professional development of K-12 science educators through research experiences at the emerging frontiers of science in order to bring new knowledge into the classroom. BIO strongly encourages all of its grantees to make special efforts to identify talented teachers who can participate in this RET activity to integrate research and education. This special opportunity is the same opportunity that is specified in the Research Experiences for Undergraduates (REU) solicitation.

Dear Colleague Letter: Research Coordination Networks (RCNs) for Driving Convergent Science in the Critical Zone

With this Dear Colleague Letter, the National Science Foundation (NSF) Division of Earth Sciences (EAR) within the Directorate for Geosciences (GEO) announces an intent to support one or more Research Coordination Networks (RCNs) to enable leadership and participation by new and existing groups of researchers in the field of Critical-Zone (CZ) science. The Critical Zone is generally described as that portion of the Earth that ranges from the weathered bedrock beneath the soil profile up to the top of the vegetation canopy. It is the part of the planet that supports most terrestrial life. Research in the Critical Zone is currently being supported by NSF through the Critical Zone Observatories (CZO) and other EAR programs.

Dear Colleague Letter: Transforming the CMMI Advanced Manufacturing Core Programs to Revitalize the Nation's Strategic Industries

The Division of Civil, Mechanical and Manufacturing Innovation (CMMI), within the National Science Foundation’s Directorate for Engineering would like to bring to your attention a change in the program description for the Advanced Manufacturing (AM) cluster effective August 15, 2018. Core programs in the AM cluster have been consolidated to form the Advanced Manufacturing (AM) program that addresses fundamental research needed to revitalize American manufacturing to grow the national prosperity and workforce, and to reshape the Nation’s strategic industries. The AM program seeks to accelerate advances in manufacturing technologies with emphasis on multi-disciplinary research that fundamentally alters and transforms manufacturing capabilities, methods and practices.

Dear Colleague Letter: Research Assistantships for High School Students (RAHSS): Funding to Broaden Participation in the Biological Sciences

NSF celebrates the progress that U.S. institutions of higher education have made in bringing diversity to the science and engineering enterprise. Strategies to successfully broaden participation during pre-college years will help to ensure a diverse pool of future students, faculty and researchers. As a part of a new or renewal NSF proposal or as a supplemental funding request to an existing NSF Award, the Directorate for Biological Sciences (BIO) will consider requests that:

• Foster interest in the pursuit of studies in the Biological Sciences; and
• Broaden participation of high school students, particularly those who are underrepresented minorities, persons with disabilities, and women in sub-disciplines where they are underrepresented.

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:

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

• NIH Bridges to the Doctorate (R25)—Application 9/25/2018
• NIH Bridges to the Baccalaureate (R25)—Application 9/25/2018
• NIH Institutional Research and Academic Career Development Awards (IRACDA)—Application 9/19/2018
Antonucci, R.R., Physics, $10,008, Association of Universities for Research in Astronomy, “NGC 3147, a Golden true Type 2 AGN.”

Balents, L., Physics, $360,000, National Science Foundation, “Quantum Phenomena in Solids.”

Bildsten, L., Kavli Institute for Theoretical Physics, $2,341,139, Gordon And Betty Moore Foundation, “KITP Postdoctoral Fellows.”

Brown, F.L., Chemistry & Biochemistry, $561,000, National Science Foundation, “Theoretical methods in chemistry and biophysics.”

Brzezinski, M.A. (Ecology, Evolution & Marine Biology), Simon, S.E., Marine Science Institute, $5,000, UC San Diego, “CIMEC Science into the Oceans-to Classrooms Outreach Program.”

Bultan, T., Computer Science, $499,992, National Science Foundation, “SHF: Small: Differential Policy Verification and Repair for Access Control in the Cloud.”

Caylor, K.K. (Geography), Earth Research Institute, $80,267, Clark University, “Developing and Scaling Up the Mapping Africa Active Learning Platform.”

Caylor, K.K. (Geography), Earth Research Institute, $103,249, Clark University, “Hazards SEES: Understanding cross-scale interactions of trade and food policy to improve resilience to drought risk in Zambia.”


Costello, C.J. (Donald Bren School of Environmental Science & Management), Marine Science Institute, $91,392, Oceano Azul Foundation, “Economic Valuation of Ecosystem Services in the Azores.”

Costello, C.J. (Donald Bren School of Environmental Science & Management), Marine Science Institute, $415,479, National Science Foundation, “Field-Theoretic Simulations: Polarization Phenomena and Coherent States.”


Fredrickson, G.H. (chemical engineering), college of engineering (mcam), $0, Mitsubishi Group (Japan), “Mitsubishi Chemical Center for Advanced Materials.”

Fredrickson, G.H. (chemical engineering), Delaney, K., Materials research laboratory, $415,479, National Science Foundation, “Field-Theoretic Simulations: Polarization Phenomena and Coherent States.”

Gaines, S. (Ecology, Evolution & Marine Biology), Costello, C.J. (Donald Bren School of Environmental Science & Management), Marine Science Institute, $216,328, National Geographic Society, “Mapping Global Conservation Priorities.”
Gottfried, M.A. (education), Gevirtz Graduate School of Education, $344,940, ED Institute of Education Sciences (IES), “Does Applied STEM CTE Strengthen the College and Career Pipeline for Low-Income High School Students?”


Halpern, B.S., national center for ecological analysis and synthesis, $551,002, World Wildlife Fund, “WWF partnership on food systems sustainability.”


Jimerson, S. (Department of Counseling, Clinical, and School Psychology), Dowdy, E. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education, $21,304, Santa Barbara County Special Education Local Plan Area Office, “Understanding and Promoting Policy and Programming for Students with Emotional and Behavioral Disturbances.”

Karki, A., Nguyen, T.T., Chemistry & Biochemistry, $43,748, Schlumberger Foundation, “Faculty for the Future Program.”


Mazin, B., Zobrist, N.R., Physics, $711,908, National Aeronautics and Space Administration, “Improving MKID Performance at the UVOIR Wavelengths.”


Mielburg, E.H., Mechanical Engineering, $300,000, National Science Foundation, “Cohesive Sediment Dynamics in Turbulent Flow.”

Melack, J.M. (Donald Bren School of Environmental Science & Management), Macintyre, S. (Ecology, Evolution & Marine Biology), Earth Research Institute, $564,136, National Science Foundation, “Aquatic metabolism and carbon dioxide flux: Linking physical and biological processes in Amazon floodplains.”

Moritz, M., Earth Research Institute, $179,472, UC Agriculture and Natural Resources, “Fire Probability Modeling for Avoided Emissions Projects.”


Passow, U., Marine Science Institute, $194,524, Texas A&M University, “Aggregation and Degradation of Dispersants and Oil by Microbial Exopolymers â€“ ADDOMEx-2.”

Patterson, D.S., Physics, $592,100, National Science Foundation, “IDBR TYPE A: Definitive Chemical Analysis of Microbial Volatile Mixtures via Microwave Spectroscopy.”

Pennathur, S. (Mechanical Engineering), California Nanosystems Institute, $80,000, Cam Med LLC, “Evopump: the first truly bandage-like patch pump.”

Pollock, T., Beyerlein, I.J. (Mechanical Engineering), Materials, $5,400,000, Office of Naval Research (ONR), “Multi-Principal Element Alloys: Exploration, Design and Understanding (MPE.EDU).”

Pollock, T., Van der Ven, A., Materials, $916,300, The Schmidt Family Foundation, “Sequential Learning to Drive High Entropy Alloy Discovery.”

Pruitt, B. (Mechanical Engineering), Institute for Collaborative Biotechnologies, $168,675, Sanford-Burnham Medical Research Institute, “alpha-Catenin/F-actin Structure at Cell-Cell Junctions.”

Reed, D.C., Miller, R.J. (Earth Research Institute), Marine Science Institute, $636,381, University of Wisconsin, “Genome wide association studies for breeding Macrocystis pyrifera.”

Rittger, K.E., Earth Research Institute, $331,195, Cal Department of Fish and Wildlife, “Daily snow cover maps for use in understanding habitat and carrying capacity of Bighorn Sheep in the Sierra Nevada.”


Stemmer, S., Van de Walle, C.G., Materials, $1,000,000, Office Of Naval Research (ONR), “Highly-Perfect BaSnO3 Thin Films for Electronic Devices.”

Stevenson-Michener, S.L. (Donald Bren School of Environmental Science & Management), Earth Research Institute, $341,402, National Science Foundation, “Collaborative Research: P2C2–A Model/Proxy
Synthesis of Walker Circulation Trends During the Last Millennium.”

Suh, S. (Donald Bren School of Environmental Science & Management), Geyer, R. (Donald Bren School of Environmental Science & Management), Institute for Energy Efficiency, $0, Rochester Institute of Technology, “Tools and Metrics for REMADE.”

Tayar, A.M., Dogic, Z., Physics, $186,000, Life Sciences Research Foundation, “Flagella beating, from the single organelle to collective self-organization.”


Wang, L., Electrical & Computer Engineering, $393,938, Nimbis Services, “Prototype Trusted Design Repository.”

Zhang, Z., Xie, Y., Electrical & Computer Engineering, $499,998, National Science Foundation, “SHF: Small: Tensor-Based Algorithm and Hardware Co-Optimization for Neural Network Architecture.”
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.

8/17/2018  White Paper
1/18/2019  Full Proposal (by invitation only)

**Vannevar Bush Faculty Fellowship (VBFF)**
Department of Defense (DoD)
https://www.grants.gov/web/grants/view-opportunity.html?oppId=306562

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

Solicitation number: N00014-18-S-F008

VBFF supports innovative basic research within academia, as well as opportunities intended to develop the next generation of scientists and engineers for the defense workforce. VBFF is oriented towards bold and ambitious “blue sky” research that may lead to extraordinary outcomes such as revolutionizing entire disciplines, creating entirely new fields, or disrupting accepted theories and perspectives. The maximum award will be $3M per 5 years.
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.
North American Wetlands Conservation Act Standard Grants

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

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


Contact:

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)

7/25/2018  Step-1
10/10/2018  Step-2

ROSES 2018: Planetary Science and Technology Through Analog Research

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary\?solId\=\{E05933E0-A89C-2E4A-5AD6-AA9B11E5E473\}\&path\=o

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.

8/1/2018  Step-1
3/1/2019  Step-2

ROSES 2018: Land Cover Land Use Change

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary\?solId\=\{86B59095-191F-A73B-D0B2-EAB8B08A43B\}\&path\=o

Contact:  Garik Gutman, 202/358-0276, ggutman@nasa.gov

Solicitation number:  NNH18ZDA001N-LCLUC

The Land-Cover/Land-Use Change (LCLUC) program is developing interdisciplinary approaches combining aspects of physical, social and economic sciences, with a high level of societal relevance, using remote sensing tools, methods, and data. One of its stated goals is to develop the capability for periodic satellite-based inventories of land cover and monitoring and characterizing land-cover and land-use change. The program focuses on analysis at global to regional scales, taking advantage of the synoptic capability afforded by satellite remote sensing and with the understanding that land-use change occurs locally. Research awards will be for three-year period of performance (or less) with annual funding contingent upon satisfactory progress reporting and available funding.

8/1/2018  Step-2

ROSES 2018: Cassini Data Analysis

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary\?solId\=\{DDBE254F-8633-9B81-4502-4A99BF73EB86\}\&path\=o

Contact:  Max Bernstein, 202/256-0879, HQ-CDAP@mail.nasa.gov

Solicitation number:  NNH18ZDA001N-CDAP

This program solicits research proposals to conduct scientific investigations utilizing data obtained by the Cassini mission. For the purposes of this solicitation, “data” is understood to include both uncalibrated and calibrated data, as well as higher-order data products produced from the mission data. Science investigations may include the use of data from any spacecraft not supported by a separate Planetary Science Division Data Analysis Program and may contain outer solar system comparative planetology studies that require the use of Cassini data for at least one of the bodies of focus.
ROSES 2018: Science Team for the NASA ISRO Synthetic Aperture Radar (NISAR) Mission

National Aeronautics and Space Administration
https://nspires.nasaprs.com/external/viewrepositorydocument/crmdocumentid=610891/solicitationId=%7B07242CFB-41BF-6F1A-7807242CFB-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.

ROSES 2018: Earth Science Applications: Water Resources

National Aeronautics and Space Administration

Contact: Bradley Doorn, 202/358-2187, Bradley.Doorn@nasa.gov
Solicitation number: NNH18ZDA001N-WATER

The specific goal of this solicitation is to advance the use of satellite observations and hydrologic modeling to monitor and assess local and regional water quality and quantity for improving water resource risk assessment, economic planning, investment planning, and policy making. Innovative solutions are sought that support an integrated approach by synergistically combining Earth observations, modeling, and existing in situ/partner data sets to address specific, well-defined information needs for water resources management. Examples include satellite-based improvements to water decision support systems, novel approaches for increasing the utility of satellite data in water planning data and models, and solutions for assessing and/or mitigating water-related risks for near- to long-term planning. This solicitation seeks to support the water community’s significant strides towards implementation of an integrated approach to water resources planning to address vulnerabilities in long-term water supply reliability, infrastructure, and balancing environmental, social, and economic considerations. Expected award is between $275K and $550K.

ROSES 2018: New Frontiers Data Analysis

National Aeronautics and Space Administration

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, C19-2 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?do=solId={A2786FD3-75A3-8A19-D43B-8A6F0F94CCF2}&path=o

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?do=solId={E81E419F-870E-F33B-BD1E-9D1C4AC3430C}&path=o

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

https://nspires.nasaprs.com/external/solicitations/summary?do=solId={E17AD920-C9F2-600D-5913-6951AB56F31F}&path=o

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. 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?
**Human Exploration Research Opportunities (hero)**

National Aeronautics and Space Administration


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.

**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.

**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.

**National Endowment for the Arts (nea)**
Our Town - Limited Submission

National Endowment for the Arts

https://www.arts.gov/grants-organizations/our-town/introduction

Contact: OT@arts.gov

Solicitation number:

Our Town is the National Endowment for the Arts’ creative placemaking grants program. These grants support projects that integrate arts, culture, and design activities into efforts that strengthen communities by advancing local economic, physical, and/or social outcomes. Successful Our Town projects ultimately lay the groundwork for systemic changes that sustain the integration of arts, culture, and design into strategies for strengthening communities. These projects require partnerships that involve at least two primary partners as defined by these guidelines: a nonprofit organization and a local governmental entity. One of the two primary partners must be a cultural (arts or design) organization. Our Town offers two program areas:

Place-Based Projects - Through arts engagement, cultural planning, design, and/or artist/creative industry support, these projects contribute to improved quality of life in local communities. $25k - $200k; with a minimum cost share/match equal to the grant amount.

Knowledge Building Projects - These projects build and disseminate knowledge about how to leverage arts, culture, and design as mechanisms for strengthening communities. $25k - $100k with a minimum cost share/match equal to the grant amount.

National Institutes of Health (NIH)

7/25/2018  Application

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

National Institutes of Health


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

Solicitation number: PAR-16-430

The purpose of this FOA is to support research that advances compounds towards FDA approval by leveraging NIDA funds with the strengths and resources of outside organizations, such as for-profit and not-for-profit entities, including academic institutions, pharmaceutical and biotechnology companies, private and public foundations, and small businesses. Applications from single entities that possess considerable resources for medications development will also be considered, provided the entity demonstrates a significant resource commitment to the proposed project. A resource commitment from a single entity could, for example, consist of salary support for key personnel or production and formulation of clinical trial material. It is anticipated that in comparison with traditional grant-funded research, strategic alliances will increase the pace at which medications to treat Substance Use Disorders (SUDs) move through the drug development process. Both the project period and budget of the grant are consistent with the objective of accelerating the pace of medications development compared to traditional research project grant funding. Project aims can range from the development of a new molecular entity to the expansion of an existing medication’s clinical indication(s). Each project should have a defined entry and exit point in the medications development pathway, with the objective of advancement in the FDA approval process. It is hoped that support for these collaborations will accelerate the rate of medications development for SUDs. Application budgets for direct costs may be up to $3M per year, but need to reflect the actual needs of the proposed project. The maximum period of support is 3 years.
Global Infectious Disease Research Training Program (D43)
National Institutes of Health
Contact: Barbara Sina, 301/402-9467, sinab@mail.nih.gov
Solicitation number: PAR-17-057
This Funding Opportunity Announcement (FOA) encourages applications for the Global Infectious Disease Research Training program from U.S. and LMIC research institutions. The application should propose a collaborative research training program that will strengthen the capacity of a LMIC institution to conduct infectious disease research that focuses on 1) major endemic or life-threatening emerging infectious diseases 2) neglected tropical diseases 3) infections that frequently occur as co-infections in HIV infected individuals or 4) infections associated with non-communicable disease conditions of public health importance in LMICs. FIC will support innovative research training programs that are designed to build sustainable infectious disease research capacity at an institution in an endemic LMIC. Sustainable infectious disease research capacity is known to require a critical mass of scientists and health research professionals with in-depth scientific expertise and complementary leadership skills that enable the institution to conduct independent, internationally-recognized infectious disease research relevant to the health priorities of their country. Applications budgets are limited to $230K per year for new awards and $276K per year for renewal awards (total direct costs).

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.

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, mgrabbe@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.
Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research

The purpose of the Kirschstein-NRSA Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (F31) is to provide support for mentored research training leading to the PhD or equivalent research degree, the combined MD/PhD degree, or another formally combined health professional degree and research doctoral degree in the biomedical, behavioral, or clinical sciences for individuals from diverse population groups. This fellowship program will enhance the diversity of the biomedical, behavioral, and clinical research workforce in the United States by providing opportunities for academic institutions to identify and recruit students from diverse population groups to seek graduate degrees in health-related research and apply for this fellowship. The goal of this program is to enhance the number of scientists from diverse population groups who are well prepared for research careers in the biomedical, behavioral, and clinical sciences. Award budgets are composed of stipends, tuition and fees, and institutional allowance, as described below. Individuals may receive up to 5 years of aggregate Kirschstein-NRSA support at the predoctoral level (up to 6 years for dual degree training, e.g., MD/PhD), including any combination of support from institutional training grants (e.g., T32) and an individual fellowship award.
**Blueprint Neurotherapeutics Network (BPN): Small Molecule Drug Discovery and Development for Disorders of the Brain**


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

Solicitation number: PAR-17-205

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

**Time-Sensitive Obesity Policy and Program Evaluation (R01)**


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.

**Countermeasures Against Chemical Threats (CounterACT) Cooperative Research Projects (U01)**


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.
NIH Support for Conferences and Scientific Meetings (Parent R13 Clinical Trial Not Allowed)

The purpose of the NIH Research Conference Grant (R13) is to support high quality scientific conferences that are relevant to the NIH's mission and to the public health. A conference is defined as a symposium, seminar, workshop, or any other organized and formal meeting, whether conducted face-to-face or via the internet, where individuals assemble (or meet virtually) for the primary purpose to exchange technical information and views or explore or clarify a defined subject, problem, or area of knowledge, whether or not a published report results from such meeting. The NIH recognizes the value to members of the research community and all other interested parties in supporting such forums. Support of conferences is contingent on the fiscal and programmatic interests and priorities of the individual NIH Institutes and Centers (ICs). Therefore, a conference grant application is required to contain a permission-to-submit letter from any one of the participating ICs' conference grant contact person (see Contacts List). Applicants are urged to initiate contact well in advance of the chosen application due date and no later than 6 weeks before that date. Please note that agreement to accept an application does not guarantee funding. In general, NIH will not issue a conference grant award unless the Federal award date can precede the conference start date. Application budgets are not limited but need to reflect the actual needs of the proposed project. Most ICs will accept applications for up to 5 years of support when a series of annual or biannual conferences are proposed by a permanently sponsoring organization. Support for conferences held on a less frequent schedule must be applied for individually.

Inter-organelle Communication in Cancer (R01)

The purpose of this FOA is to support research projects that examine how inter-organelle communication in cancer cells and/or tumor-associated cells affects cellular function, adaptation, and phenotypic plasticity. Applications that leverage novel tools or technologies that advance resolution, quantification, measurement, and/or manipulation of inter-organelle communication to inform novel cancer biology hypothesis are of high programmatic priority. This emerging area promotes the concept that organelle networks coordinate oncogenic or tumor suppressive pressures that influence cell behaviors. It is anticipated that applicants may propose to use basic model systems or non-human organisms to elucidate mechanistic cancer research questions on inter-organelle communication. While applications may have aims that illustrate translational potential, an emphasis on clinical translation is not a requirement for this FOA. The primary goal of this FOA is to stimulate basic research that will address our knowledge gaps and technical limitations in studying inter-organelle communication and crosstalk in cancer. Application budgets are not limited but need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.

Extracellular Vesicles and Substance Use Disorders (R01)

The purpose of this FOA is to encourage research projects that investigate the interplay between EVs and SUDs. In particular, NIDA is interested in the potential utility of EVs with respect to understanding neuroplastic mechanisms relevant to SUDs or as biomarkers or therapeutics. Proposed projects are expected to meet the following two criteria: 1) the major thrust of the application should involve extracellular vesicles or EV biogenesis machinery; and 2) at least one aim or sub-aim should involve exposure to addictive substances, or analysis of samples from patients with substance use or SUDs. Addictive substances of interest include: nicotine, cocaine, stimulants, opioids, prescription drugs, cannabinoids, or use of multiple substances (including alcohol). Applications focused solely on alcohol exposure should not apply through this FOA. Application budgets need to reflect the actual needs of the proposed project. A project period of up to five years may be requested.
Advancing Exceptional Research on HIV/AIDS and Substance Abuse (R01)

National Institutes of Health


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

Solicitation number: RFA-DA-18-002

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

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.

Phased Innovation Award for Mechanistic Studies to Optimize Mind and Body Interventions in NCCIH High Priority

National Institutes of Health

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

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

Solicitation number: PAR-17-149

The intent of this FOA is to encourage research that studies Mind and Body Interventions in two phases. The first phase is to explore and identify underlying mechanisms of action for a Mind and Body Intervention and to develop methods to assess those mechanisms or processes. The second phase should focus on how the putative mechanism(s) or process(es) may be improved, refined, enhanced, or strengthened in relation to the functional outcome or clinical benefit of the intervention. 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.
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.

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 five years.

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.

9/5/2018 Application
10/5/2018 Application
1/5/2019 Letter of Intent
2/5/2019 Application

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 development of 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.

9/5/2018 Application
1/5/2019 Application
4/5/2019 Application
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.

**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.

**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.
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, publically 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.

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.

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


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)

National Institutes of Health


Contact: Jeannette Korczak, 240/276-5630, korczakj@mail.nih.gov

Solicitation number: PAR-18-476

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

National Institutes of Health


Contact: William Elwood, 301/402-0116, william.elwood@nih.gov

Solicitation number: PAR-18-694

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 (R01)**

National Institutes of Health


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

Solicitation number: PA-18-031

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.

**Clarifying the Relationship between Delirium and Alzheimer’s Disease and Related Dementias (R01 Clinical Trial Optional)**

National Institutes of Health


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

Solicitation number: PAR-18-029

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, chinhh@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)

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)

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)

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.
NSF-FDA Scholar-in-Residence at FDA

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


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

Solicitation number: NSF 10-533

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

Hydrologic Sciences

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 15-558

This program focuses on the fluxes of water in the environment that constitute the water cycle as well as the mass and energy transport function of the water cycle in the environment. The Program supports studying processes from rainfall to runoff to infiltration and streamflow; evaporation and transpiration; as well as the flow of water in soils and aquifers and the transport of suspended, dissolved and colloidal components. This program retains a strong focus on linking the fluxes of water and the components carried by water across the boundaries between various interacting components of the terrestrial system and the mechanisms by which these fluxes co-organize over a variety of timescales and/or alter the fundamentals of the interacting components. The Program is also interested in how water interacts with the solid phase, the landscape and the ecosystem as well as how such interactions and couplings are altered by land use and climate change. Studies may address aqueous geochemistry and solid phase interactions as well as physical, chemical, and biological processes as coupled to water transport. Regular research awards supported by HS are generally but not exclusively in the range of $250K to $700K and of 2-4 years duration. Hydrologic process synthesis projects should be at a level appropriate to the scope of topic and are expected to be conducted at total levels of <$1M over 3-5 years with an emphasis on support of graduate students and postdocs.

Ceramics (CER)

National Science Foundation, Education and Human Resources (EHR)


Contact: 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

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)**

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

**Geomorphology and Land Use Dynamics**

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.
Earth Sciences: Instrumentation and Facilities (EAR/IF)

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.

Archeology 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.

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

National Science Foundation


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

Solicitation number: NSF 16-617

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

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

Ongoing

Plant Genome Research Program (PGRP)

National Science Foundation


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

Solicitation number: NSF 16-614

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

Four funding opportunities are currently available:

1) Genome-scale plant research and/or tool development to address fundamental biological questions in plants of economic importance on a genome-wide scale (RESEARCH-PGR)

2) Plant Transformation Challenge Grants to overcome constraints in plant transformation through breakthrough discoveries (TRANSFORM-PGR)

3) Data Mining Challenge Grants to mine, reuse and unleash new information from available large-scale datasets (MINE-PGR)

4) Career Advancement to build new careers in plant genomics as early career awards (ECA-PGR) or mid-career awards (MCA-PGR).
Condensed Matter and Materials Theory (CMMT)

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.
Geospace Environment Modeling (GEM)

National Science Foundation


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

Solicitation number: NSF 18-543

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.

7/27/2018 Letter of Intent (required for Track 2 proposals)
9/18/2018 Full Proposal

Prediction of and Resilience against Extreme Events (PREEVENTS)

National Science Foundation


Contact: Eric DeWeaver, 703/292-8527, edeweave@nsf.gov

Solicitation number: NSF 16-562

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.

7/31/2018 Full Proposal
6/3/2019 Full Proposal
6/1/2020 Full Proposal

Smart and Autonomous Systems (S&AS)

National Science Foundation


Contact: Reid Simmons, 703/292-4767, resimmon@nsf.gov

Solicitation number: NSF 18-557

This program focuses on Intelligent Physical Systems (IPS) that are capable of robust, long-term autonomy requiring minimal or no human operator intervention in the face of uncertain, unanticipated, and dynamically changing situations. IPS are systems that combine perception, cognition, communication, and actuation to operate in the physical world. Examples include, but are not limited to, robotic platforms, self-driving vehicles, underwater exploration vehicles, and smart grids. The S&AS program supports research in four main aspects of IPS: cognizant, taskable, adaptive, and ethical. Foundational projects are anticipated to range from $300,000 to $600,000 in total costs for up to three years. Integrative projects are anticipated to range from $500,000 to $1,000,000 in total costs for up to four years.
Opportunities for Promoting Understanding through Synthesis (OPUS)

National Science Foundation


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

Solicitation number: NSF 14-559

All four clusters within the Division of Environmental Biology (Population and Community Ecology, Ecosystem Science, Evolutionary Processes, and Systematics and Biodiversity Science) encourage the submission of proposals aimed at synthesizing a body of related research projects conducted by a single individual or a group of investigators over an extended period. OPUS proposals will often be appropriately submitted in mid-to-late career, but will also be appropriate early enough in a career to produce unique, integrated insight useful both to the scientific community and to the development of the investigator's future work. In cases where multiple scientists have worked collaboratively, an OPUS award will provide support for collaboration on a synthesis.

Long Term Research in Environmental Biology (LTREB)

National Science Foundation, Biological Sciences (BIO)


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

Solicitation number: NSF 17-513

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

Division of Environmental Biology (CORE programs) (DEB)

National Science Foundation, Biological Sciences (BIO)


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

Solicitation number: NSF 17-512

The Division of Environmental Biology (DEB) supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles. Research on organismal origins, functions, relationships, interactions, and evolutionary history may incorporate field, laboratory, or collection-based approaches; observational or manipulative experiments; synthesis activities; as well as theoretical approaches involving analytical, statistical, or computational modeling.
**Innovative Technology Experiences for Students and Teachers (ITEST)**

National Science Foundation, Education and Human Resources (EHR)


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

Solicitation number: NSF 17-565

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

**Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)**

National Science Foundation


Contact:

Solicitation number: NSF 18-554

This program supports untenured faculty or research scientists (or equivalent) in their first three years in a primary academic position after the PhD, but not more than a total of five years after completion of their PhD, with the goal of encouraging research independence immediately upon obtaining their first academic position after receipt of the PhD. Faculty may not yet have received any other grants or contracts in the Principal Investigator (PI) role from any department, agency, or institution of the federal government, including from the CAREER program or any other program, post-PhD, regardless of the size of the grant or contract. Each award will be up to $175,000 for up to 24 months.

**GeoPrisms Program**

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 18-559

GeoPRISMS (Geodynamic Processes at Rifting and Subducting Margins) Program investigates the coupled geodynamics, earth surface processes, and climate interactions that build and modify continental margins over a wide range of timescales. These interactions cross the shoreline and have applications to margin evolution and dynamics, construction of stratigraphic architecture, accumulation of economic resources, and associated geologic hazards and environmental management. The GeoPRISMS Program includes two broadly integrated science initiatives (Subduction Cycles and Deformation (SCD) and Rift Initiation and Evolution (RIE)), linked by five overarching scientific topics and themes, where transformative advances are likely to occur in the decade 2011-2020, and where a focused scientific program could be most effective. These overarching science topics include 1) Origin and evolution of continental crust; 2) Fluids, magmas and their interactions; 3) Climate-surface-tectonics feedbacks; 4) Geochemical cycles; and 5) Plate boundary deformation and geodynamics. Each of the initiatives has identified primary sites for focused investigations, as well as thematic studies that will complement primary site studies. Under this solicitation, the program expects to make approximately 10 standard or continuing awards. NSF anticipates having approximately $3 million in fiscal year 2019, and that this level will continue through the end of the program currently marked for fiscal year 2020, pending the availability of funds.
Cultural Anthropology Program Senior Research Awards (CA-SR)

The primary objective of the Cultural Anthropology Program is to support fundamental, systematic anthropological research and training to increase understanding of the causes, consequences, and complexities of human social and cultural variability. The Cultural Anthropology Program welcomes proposals from researchers in all sub-fields of cultural anthropology and research at any temporal and spatial scale. Methodologies and approaches employed may include ethnographic field research, surveys, remote sensing, the collection of bio-markers, experimental research inside or outside of laboratory settings, archival research, the analysis of materials collections and extant data bases, mathematical and computational modeling, and other research tools as appropriate for the research proposed. The overarching research goals should be to produce empirically grounded findings that will be generalizable beyond particular case studies and contribute to building a more robust anthropological science of human society and culture.

Science of Science and Innovation Policy Doctoral Dissertation Research Improvement Grants (SciSIP-DDRIG)

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)

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).
Documenting Endangered Languages (DEL)
National Science Foundation, Cross-Directororate
Contact: Colleen Fitzgerald, 703/292-4381, cfitzger@nsf.gov
Solicitation number: NSF 16-576
This funding partnership between the NSF and the NEH supports projects to develop and advance knowledge concerning endangered human languages. Made urgent by the imminent death of roughly half of the approximately 7000 currently used languages, this effort aims to exploit advances in information technology to build computational infrastructure for endangered language research. 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. PIs and Applicants may propose projects involving one or more of the following three emphasis areas: Language Description; Infrastructure; and Computational Methods. Funding will be available in the form of one- to three-year senior research grants as well as fellowships from six to twelve months.

Computer and Network Systems (CNS): Core Programs
National Science Foundation
Contact: Mimi McClure, 703/292-8950, mmccclure@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)
National Science Foundation
Contact:
Solicitation number: NSF 17-602
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.
Earth Sciences Postdoctoral Fellowships (EAR-PF)
National Science Foundation, Geosciences (GEO)
Contact: Judith Skog, (703) 292-8550, earpf@nsf.gov
Solicitation number: NSF 18-565
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, reichli@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.

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.
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.

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

Computing and Communication Foundations (CCF): Core Programs

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.

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

Information and Intelligent Systems (IIS): Core Programs

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.

Private/Nonprofit Agencies

Surdna Foundation Grants
Surdna Foundation
http://www.surdna.org/what-we-fund/funding-overview.html
Contact: 212/557-0010, questions@surdna.org
Solicitation number:
The Surdna Foundation seeks to foster sustainable communities by making grants in the areas of: Sustainable Environments, with the goal of overhauling the country’s low performing infrastructure, much of it outdated and crumbling, with a new approach that will foster healthier, sustainable, and just communities; Strong Local Economies, with the objective supporting the development of robust and sustainable economies that include a diversity of businesses and access to quality jobs; and Thriving Cultures, with the purpose of supporting efforts to encourage teens to explore the arts, involve artists in community development projects and foster the growth and success of local artists as economic engines and agents for social change. Organizations are eligible for a maximum of three consecutive years of funding. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Ongoing

**Smith Richardson Foundation Grants**

Smith Richardson Foundation

[https://www.srf.org/](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.

Ongoing

**Asia Responsive Grants**

Henry Luce Foundation

[http://www.hluce.org/asiarespgrant.aspx](http://www.hluce.org/asiarespgrant.aspx)

Contact: 212/489-7700, hlf1@hluce.org

Solicitation number:

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

Ongoing

**PepsiCo Grants**

Pfizer Inc.


Contact: 914/253-2000, pepsico.foundation@pepsi.com

Solicitation number:

PepsiCo is committed to advancing objectives related to education, health and wellness, diversity and inclusion, and thought leadership. In advancing these objectives, PepsiCo provides support to approved organizations on an equal-access basis. Applicants seeking a grant for less than $100K must first submit a brief Letter of Interest. Requests are evaluated on a rolling basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Ongoing

**Mellon Foundation Grants**

The Andrew W. Mellon Foundation

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

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

FSSS Grants-in-Aid Program
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 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.

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.

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

Pollock-Krasner Grants
The Pollock-Krasner Foundation, Inc.
http://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.
Funding for Readings and Workshops

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 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 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

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


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.

**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.

**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.

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

Targeted Grants in Mathematics and Physical Sciences
Simons Foundation
https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/targeted-grants-in-mps/
Contact: Elizabeth Roy, 212-524-6966, mps@simonsfoundation.org
Solicitation number:
The program is intended to support high-risk projects of exceptional promise and scientific importance on a case-by-case basis. A typical Targeted Grant in MPS provides funding for up to five years. The funding provided is flexible and based on the type of support requested in the proposal. Expenses for experiments, equipment, or computations, as well as for personnel and travel, are allowable.

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

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 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


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/

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.

8/1/2018 Formal Grant Proposal (by invitation only)

UEF Grants Program

United Engineering Foundation

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

Contact: 973/244-2328, engfn_d@aol.com

Solicitation number:

The United Engineering Foundation advances the engineering arts and sciences for the welfare of humanity. It supports engineering and education by, among other means, making grants. Broad-based, interdisciplinary proposals that further the engineering profession as a whole are preferred. Multiple-year proposals are welcome, but funding is awarded for a single year only. Proposals by individuals are seldom accepted. 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.
Beckman Young Investigators 2019
Arnold and Mabel Beckman Foundation
http://www.beckman-foundation.org/programs/beckman-young-investigators-program-information
Contact: BYI@beckman-foundation.org
Solicitation number:
The Beckman Young Investigator (BYI) Program is intended to provide research support to the most promising young faculty members in the early stages of academic careers in the chemical and life sciences particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science.

This program is intended for scientists early in their careers who have not yet received a major award from another organization. Projects proposed for this program should be truly innovative, high-risk, and show promise for contributing to significant advances in chemistry and the life sciences. They should represent a departure from current research directions rather than an extension or expansion of existing programs. Proposed research that cuts across traditional boundaries of scientific disciplines is encouraged. Projects are normally funded for a period of four years. Grants are in the range of $600K over the term of the project, contingent upon demonstrated progress after the second year of the award.

Program on Social Inequality
Russell Sage Foundation
http://www.russellsage.org/research/social-inequality/funding_opportunity
Contact: James Wilson, james@rsage.org
Solicitation number:
This program supports innovative research on whether rising economic inequality has affected social, political, and economic institutions, and the extent to which increased inequality has affected equality of opportunity, social mobility, and the intergenerational transmission of advantage. We seek investigator-initiated research projects that will broaden our understanding of the causes and consequences of rising economic inequalities in the United States. Applications should limit budget requests to no more than a two-year period, with a maximum of $150K (including overhead) per project. Presidential Awards, with a maximum budget of $35K (no overhead allowed) are also available. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ucsb.edu or x8406) for more information and coordination purposes.

Abe Fellowship Program
Social Science Research Council
http://www.ssrc.org/fellowships/abe-fellowship/
Contact: 212/377-2700, abe@ssrc.org
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.
Memory and Cognitive Disorders Awards
The McKnight Endowment Fund for Neuroscience
Contact: Eileen Maler, 612/333-4220, emaler@mcknight.org

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:

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.

Sloan Research Fellowships - Limited Submission
Alfred P. Sloan Foundation
http://www.sloan.org/fellowships
Contact: 212/649-1649, researchfellows@sloan.org

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:

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

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.

UC and State of California

Ongoing

Resident Scholars Program
UC MEXUS
http://www.ucmexus.ucr.edu/funding/resident-scholars-program.html

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

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.