Campus and Agency News

FISCAL YEAR 2018 OMNIBUS AGREEMENT SUMMARY

On March 21, the House and Senate Appropriations Committees released a FY18 omnibus appropriations bill – H.R. 1625, Consolidated Appropriations Act, 2018 – to fund the federal government until the end of the current fiscal year, ending September 30, 2018. Here are a few research-related highlights as provided by the AAU:

- **National Institutes of Health (NIH):** The omnibus provides funding for NIH at $37.084 billion, an increase of $3 billion, or 8.8 percent, above the FY17 level. This figure includes $496 million from the 21st Century Cures Act.

- **National Science Foundation (NSF):** The omnibus provides $7.8 billion for NSF, an increase of $295 million, or 4 percent, above the FY17 funding level. The Research and Related Activities Directorate receives an appropriation of $6.33 billion, which is an increase of $301 million over FY17. The Education and Human Resources Directorate receives $902 million, an increase of $22 million over FY17. The omnibus also includes $182.8 million for Major Research Equipment and Facilities Construction, which is a $26 million decrease from FY17.

- **Department of Energy (DOE):** The omnibus provides $6.26 billion for the DOE Office of Science, an increase of $868 million, or 16 percent, above FY17. The measure also funds the Advanced Research Projects Agency – Energy (ARPA-E) at $353 million, a $47 million, or 15.5 percent, increase above FY17.

- **Department of Defense (DOD):** The measure includes $2.34 billion for 6.1 basic research, a $64 million, or 3 percent, increase above FY17. Army and Air Force 6.1 basic research accounts are cut 3.5 percent and 4.5 percent, respectively. The bill provides funding for the Defense Advanced Research Projects Agency (DARPA) at $3.1 billion, an increase of 8 percent over FY17. The omnibus also includes a $50 million rescission listed as DARPA undistributed reduction.

- **National Aeronautics and Space Administration (NASA):** The omnibus provides $20.7 billion for NASA, a 5.5 percent increase above FY17. This figure includes $6.22 billion for NASA’s Science Mission Directorate, an 8 percent, or $456 million, increase over FY17. Earth Science receives $1.92 billion, Astrophysics $850 million Planetary Science $2.2 billion, the James Webb Space Telescope $534 million, and Heliophysics $689 million. The omnibus provides a modest increase of $25 million (+4 percent) for the Aeronautics Mission Directorate for a total of $685 million. The Space Technology Mission Directorate is funded at $760 million, a $73 million, or 11 percent increase above FY17. The omnibus also includes $100 million for the Office of Education, of which $40 million is appropriated for the Space Grant Fellowship Program.

- **U.S. Department of Agriculture’s (USDA) The omnibus provides $400 million for AFRI, a $25 million, or 6.7 percent, increase above the FY17 funding level.

- **National Endowment for the Humanities (NEH):** The omnibus provides $152.8 million for NEH, a $3 million, or 2 percent, increase above the FY17 funding level.

The AAU’s full summary is [here](#).
The Lindros Award for Translating Research to Medical Practice provides a one-year grant of $10,000 in support of a significant project with clear potential impact on human medicine. Competitive proposals, which will be submitted by the graduate student and/or post-doctoral researcher, must include substantiation of the research itself, impact on human medicine, and justification for use of the award. Applications will be reviewed by a review committee assembled by the Center for Bioengineering. The Committee will select the most outstanding application based upon immediacy of impact, substantiation of impact, and overall quality of the proposal.

**Deadline(s):** 06/08/2018 - Application  
**URL:** https://www.research.ucsb.edu/media/237567/2018lindrosawardcall_final.pdf

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**UCSB CROSSROADS CALL FOR PROPOSALS**

**Agency:** UCSB Graduate Division  
**Title:** UCSB Crossroads Interdisciplinary Research and Teaching Program  
**Deadline(s):** 04/23/2018 - Full Proposal  
**URL:** http://www.graddiv.ucsb.edu/financial/crossroads

**Summary:** The UCSB Crossroads Program seeks proposals from UCSB faculty for interdisciplinary research collaborations, incorporating graduate fellows and leading to undergraduate / professional masters course creation or development of existing departmental courses. Faculty seeking new collaborations, as well as participation in pre-existing UCSB Crossroads projects, are welcome to apply, provided that three or more faculty members—from at least two different disciplines—serve as primary instructors.

UCSB Crossroads Awards will provide one year of support for three to five doctoral students as Crossroads Fellows. They will receive fellowship support from the Graduate Division for one quarter, and will be supported as TAs or Associates for another quarter by the Dean of the participating academic College or Division. Up to $1,000 per Fellow may be available to support research activities associated with the project; these funds can be pooled to assist an entire project.

**CONTACT DETAILS:** Faculty can submit proposals and questions to UCSB Crossroads Program Coordinator Joshua Kuntzman at joshua.kuntzman@graddiv.ucsb.edu

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**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 - NSF Graduate Research Fellowship Program (GRFP) - Graduate Research Internship Program (GRIP)**  
The Division of Graduate Education announces the continuation of the Graduate Research Internship Program (GRIP). GRIP provides professional development to NSF Graduate Research Fellowship Program (GRFP) Fellows (referred to as “Fellows”) through internships developed in partnership with federal agencies (see https://www.nsf.gov/grip for a current list of partner agencies). Through GRIP, Fellows participate in mission-related, collaborative research under the guidance of host research mentors at federal facilities and national laboratories.

**Dear Colleague Letter: Addition of IBM as a Cloud Resource Provider to the**
FY 2018 BIGDATA Solicitation
Through this Dear Colleague Letter (DCL), the National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) wishes to notify the community that IBM has joined as one of the cloud resource providers for the fiscal year (FY) 2018 Critical Techniques, Technologies, and Methodologies for Advancing Foundations and Applications of Big Data Sciences and Engineering (BIGDATA) program solicitation (see https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504767 for more information about the program).

Dear Colleague Letter: Catalyzing Rapid Creation of New Industry-University Cooperative Research Centers (IUCRC) with a Direct Submission Option for Phase I Centers
To facilitate rapid IUCRC center creation, with this Dear Colleague Letter (DCL), NSF's Directorates for Engineering (ENG) and Computer and Information Science and Engineering (CISE) seek to highlight a proposal submission pathway that allows teams to go directly to submitting a Phase I center proposal for a single stage of merit review, if the requirements laid out by NSF in this DCL are met. This DCL encourages industry and university stakeholders to come together to accelerate the process described above to permit submitting a Phase I Proposal to NSF. Teams are encouraged to build truly collaborative industry-academia partnerships that explore use-inspired basic research ideas of direct value to the industry sector being served and that leverage the expertise of academic researchers. Given that IUCRCs are substantially industry-funded, an industry-driven effort has the high potential to drive rapid creation of collaborative research centers that address emerging industrial basic research needs.

Dear Colleague Letter: Special Guidelines for Submitting Collaborative Proposals under the Division of Chemical, Bioengineering, Environmental, and Transport Systems, the Division of Civil, Mechanical and Manufacturing Innovation, and the Division of Electrical, Communications and Cyber Systems - the UK Engineering and Physical Sciences Research Council (ENG-EPSRC) Lead Agency Activity
The Directorate for Engineering (ENG), Division of Chemical, Bioengineering, Environmental and Transport Systems (CBET), the Division of Civil, Mechanical and Manufacturing Innovation (CMMI), and the Division of Electrical, Communications and Cyber Systems (ECCS) of the National Science Foundation and the Engineering, ICT and Manufacturing the Future Themes of the UK Engineering and Physical Sciences Research Council (EPSRC) are pleased to announce the ENG-EPSRC Lead Agency Activity. The goal of this activity is to reduce some of the barriers that researchers currently encounter when working internationally. The ENG-EPSRC Lead Agency Activity will allow US and UK researchers to submit a single collaborative proposal that will undergo a single review process. This DLC provides guidelines for the preparation, submission, review, and award of ENG-EPSRC Collaborative Proposals.

Dear Colleague Letter: Real-Time Learning and Decision-Making in Engineered Systems (Real-D)
With this DCL, the Directorate for Engineering of the National Science Foundation announces its interest in receiving EARly-Concept Grants for Exploratory Research (EAGER) proposals to support research in fundamental theory, algorithms, engineering principles, and applications for real-time learning and decision-making that may lead the way toward safe, reliable, and efficient data-enabled engineering systems. To encourage convergence research, proposals are expected to have (PI)s that (has)have complementary expertise
and significant research background in: the domain of the specific engineering infrastructure systems under consideration; and in machine learning, optimization, systems modeling and control and/or data science.

Dear Colleague Letter: EQuP: Engineering Quantum Integrated Platforms for Quantum Communication
This DCL seeks collaborative, multidisciplinary proposals that span quantum device and circuit technology and system-level concepts in the design, analysis, development, and demonstration of integrated quantum communication systems. The proposals must address in an integrative fashion two or more of the following research topics: (1) revolutionary quantum device approaches based on photonic and electronic principles for generating signals that encode quantum information (qubits); (2) novel media for quantum signal propagation, storage, and/or routing that achieve minimum signal disturbance and loss; (3) disruptive quantum receiver technologies that achieve high-fidelity detection of encoded qubits. Auxiliary systems for creating entanglement between the transmitter and receiver may be utilized, and information encoding that involves multiple qubits is also desirable.

Dear Colleague Letter: Advancing Long-term Reuse of Scientific Data
Through this Dear Colleague Letter (DCL), the National Science Foundation's (NSF) Office of Advanced Cyberinfrastructure (OAC) announces its intention to support initial exploratory activities toward the creation of social and technical infrastructure solutions that further NSF's commitment to public access. These solutions are a means to accelerate the dissemination and use of fundamental research results in the form of data that will advance the frontiers of knowledge and help sustain the Nation's prosperity well into the future.

Dear Colleague Letter: Towards a New Approach for the Provision of Marine Seismic Capabilities to the U.S. Research Community
This Dear Colleague Letter outlines the Division of Ocean Sciences' (OCE) of the National Science Foundation (NSF) decision regarding supporting the marine seismic community’s need for long-term, sustainable access to seismic data collection capability.

Dear Colleague Letter: Disrupting Operations of Illicit Supply Networks
With this Dear Colleague Letter (DCL), the National Science Foundation (NSF) invites proposals to the Operations Engineering program for EArly-concept Grants for Exploratory Research (EAGER) into operational methods to detect, disrupt and disable illicit supply networks. Supplemental funding requests to relevant existing NSF awards and responsive to this DCL are also invited. Such requests also must be responsive to this DCL.

Dear Colleague Letter: Growing Convergence Research
This Dear Colleague Letter (DCL) seeks to identify potential future research areas that go beyond NSF’s Big Ideas, require a convergence approach, cross internal and/or external organizational and disciplinary boundaries, and advance the progress of science as articulated in NSF’s mission. NSF encourages the submission of prospectuses to identify these new areas and specific projects within them. NSF may invite the teams submitting the most promising prospectuses to submit proposals to further explore their research strategies. Prospectuses must outline novel approaches and research strategies that are likely to result in a clear demonstration of the potential for transformative advances. The research areas and proposed projects must reflect the characteristics of convergence outlined here.
Dear Colleague Letter: Improving Graduate Student Preparedness for the Chemistry Workforce

The Division of Chemistry (CHE) supports masters and doctoral students to acquire the knowledge, experience, and skills needed for highly productive careers. This Dear Colleague Letter describes opportunities for supplemental funding to enhance the training experience of graduate students supported by active CHE research grants who are considering careers outside of academe.

Dear Colleague Letter: Research Opportunities in Europe for NSF Postdoctoral Research Fellows

This letter invites current Postdoctoral Research Fellows to apply for research visits to any identified, appropriate European research group. Instructions on how to apply and other relevant policies and requirements are provided in this letter.

Dear Colleague Letter: Research Opportunities in Europe for NSF CAREER Awardees

This letter invites current CAREER awardees to apply for research visits to any identified, appropriate European research group. Further, the letter gives instructions on how to apply and other relevant policies and requirements.

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:

• Brain Research Foundation Scientific Innovations Award 2019—Campus Notice of Intent 5/1/2018; Letter of Intent (required) 06/22/2018

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

• NSF American National Election Studies Competition (ANES)—Full Proposal 4/20/2018
• USAID Feed the Future Innovation Lab on Fish (Fish Innovation Lab)—Full Proposal 5/23/2018
• NSF Cybersecurity Innovation for Cyberinfrastructure (CICI) —Full Proposal 6/4/2018
Bildsten, L., Shraiman, B.I., Kavli Institute for Theoretical Physics, $16,096,887, National Science Foundation, “Kavli Institute for Theoretical Physics.”

Blumenthal, D.J., Electrical & Computer Engineering, $300,000, University of Arizona, “Optical and Optoelectronic Computing.”


Dozier, J.C. (Donald Bren School of Environmental Science & Management), Earth Research Institute, $3,191,338, UC Office Of the President, “Headwaters to groundwater: Resources in a changing climate.”

Falasca-Zamponi, S. (Sociology), Institute for Social, Behavioral, & Economic Research, $58,500, Natl Humanities Center, “An Ambiguous Past: Fascism, the Resistance, and “Structures of Feeling” in Italy (1943-1945).”


Lewis, G.P., Fisher, S.K., neuroscience research institute, $60,000, UC Irvine, “Retinal Progenitor Cells for the Treatment of Retinitis Pigmentosa.”

Lisiecki, L. (Earth Science), Marine Science Institute, $231,625, National Science Foundation, “Collaborative Research: Bringing the Late Pleistocene into Focus: Better Estimates of Ages and Ocean Circulation Through Data-Model Comparison.”


O’Malley, M.A., Chemical Engineering, $1,400,000, UC Lawrence Berkeley Laboratory (LBNL), “Joint BioEnergy Institute.”

Plantinga, A. (Donald Bren School of Environmental Science & Management), Marine Science Institute, $25,000, Nature Conservancy, “TASK 21: Economic Assessment of Land-Based Strategies to Mitigate Climate Change in California.”


Spieler, S. (Germanic, Slavic, & Semitic Studies), Interdisciplinary Humanities Center, $6,278, European Union, “Marie Sklodowska-Curie Global Fellowship.”

Stemmer, S., Materials, $1,000,000, Ohio State University (Includes Research Foundation), “Perovskite Oxide Based High Power Density mm-wave Transistors.”
Tanimoto, T. (Earth Science), Rood, D.H., Earth Research Institute, $22,000, University of Southern California, “SCEC5 Participation, Project: Testing fault geometry and interaction models using high-precision slip rates on the San Cayetano and Ventura-Pitas Point Faults.”

Tanimoto, T. (Earth Science), Archuleta, R.J. (Earth Science), Earth Research Institute, $25,000, University of Southern California, “SCEC5, 17247: Validation of the UCSB Multi-Segment Kinematic Rupture Ground Motion Code Against Recorded Ground Motion for Several Events.”

Tanimoto, T. (Earth Science), Steidl, J., Earth Research Institute, $30,000, University of Southern California, “SCEC5 Participation, Project A: SCEC Borehole Instrumentation Program.”


Visell, Y. (Media Arts & Technology Program), California Nanosystems Institute, $539,284, National Science Foundation, “CAREER: Making Tactile Waves: Somatosensation as Elastic Wave Propagation.”


Xie, Y. (Electrical & Computer Engineering), Strukov, D. (Electrical & Computer Engineering), California Nanosystems Institute, $2,950,000, University of Virginia, “CRISP - Center for Research on Intelligent Storage and Processing-in-memory.”
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 Commerce (DOC)

5/7/2018 Application

NOAA Coastal Resilience Grants Program (FY 2018)
Department of Commerce
https://www.grants.gov/web/grants/view-opportunity.html?oppId=300259
Contact: Melanie Gange, 301/427-8664, Melanie.Gange@noaa.gov
Solicitation number: NOAA-NMFS-HCPO-2018-2005502

The principal objective of the NOAA Coastal Resilience Grants Program is to implement projects that build resilience of U.S. coastal communities and ecosystems. Resilience is the ability to prepare and plan for, absorb, recover from, and successfully adapt to adverse events. Specifically, the FY2018 Coastal Resilience Grants solicitation is seeking coastal habitat restoration projects that build resilience by conserving and restoring sustainable ecosystem processes and functions and reducing the vulnerability of coastal communities and infrastructure from the impacts of extreme weather events, climate hazards, and changing ocean conditions. Activities that strengthen the resilience of coastal ecosystems and human communities may include, but are not limited to: 1) re-establishing hydrologic connectivity (e.g. tide gate removal) and sediment processes that provide wetland habitat and reduce flooding (extent or frequency) in human communities; 2) removing dams that block migration for migratory fish and pose a risk to surrounding communities; 3) rebuilding coral reefs to recover Listed and/or Managed Species and reduce the energy and effects of storm waves, including erosion; 4) removing or replacing old levee infrastructure to restore functional floodplain habitat for fish, enhance flood storage capacity, and improve agricultural production through the resulting flood reduction; 5) improving stream flow levels to provide habitat for fish during migratory periods and reliable access to water for communities and agriculture. Proposals for projects that assess project feasibility and result in project designs, rather than project implementation, will be considered under this competition. NOAA will not accept applications requesting less than $75K or more than $2M in federal funds from NOAA under this solicitation.

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.
DARPA Biological Technologies Office Open BAA

Department of Defense (DoD)

https://www.grants.gov/web/grants/view-opportunity.html?oppId=293473

Contact: BTOBAA2017@darpa.mil

Solicitation number: HR001117S00030

The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals of interest to the Biological Technologies Office (BTO). Proposed research should investigate leading edge approaches that enable revolutionary advances in science, technologies, or systems at the intersection of biology with engineering and the physical and computer sciences. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of the art. BTO seeks unconventional approaches that are outside the mainstream, challenge assumptions, and have the potential to radically change established practice, lead to extraordinary outcomes, and create entirely new fields. The mission of BTO is to foster, demonstrate, and transition breakthrough fundamental research, discoveries, and applications that integrate biology, engineering, computer science, mathematics, and the physical sciences. BTO’s investment portfolio goes far beyond life sciences applications in medicine to include areas of research such as human-machine interfaces, microbes as production platforms, and deep exploration of the impact of evolving ecologies and environments on U.S. readiness and capabilities. BTO’s programs operate across a wide range of scales, from individual cells to the warfighter to global ecosystems. BTO responds to the urgent and long-term needs of the Department of Defense (DoD) and addresses national security priorities. Multiple awards are possible. The amount of resources made available under this BAA will depend on the quality of the proposals received and the availability of funds.

6/1/2018 Application

Air Force Fiscal Year 2019 Young Investigator Research Program (YIP)

Department of Defense (DoD)

https://www.grants.gov/web/grants/view-opportunity.html?oppId=301416

Contact: Brittany Turner, brittany.turner.5@us.af.mil

Solicitation number: FA9550-18-S-0002

The Fiscal Year 2019 Air Force YIP intends support for scientists and engineers who have either received Ph.D. or equivalent degrees post 01 April 2012. These scientists and engineers have shown exceptional ability and promise for conducting basic research. The program objective is to foster creative basic research in science and engineering; enhance early career development of outstanding young investigators; and increase opportunities for the young investigator to recognize the Air Force mission and related challenges in science and engineering. Most YIP awards are 3 years in duration, funded up to $150K per year for a total of approximately $450K. Proposals should be submitted in adherence to these guidelines.

6/15/2018 Application

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

Department of Defense (DoD)

https://www.grants.gov/web/grants/view-opportunity.html?oppId=301433

Contact: Gregory Ruark, 703/545-2441, gregory.a.ruark.civ@mail.mil

Solicitation number: W911NF-18-S-0001

The U.S. Army Research Institute for the Behavioral and Social Sciences is the Army’s lead agency for the conduct of research, development, and analyses for the improvement of Army readiness and performance via research advances and applications of the behavioral and social sciences that address personnel, organization, training, and leader development issues. The basic research program supports research projects that are designed to expand fundamental knowledge and discover general principles in the behavioral and social sciences. In addition to looking for proposals that provide for programmatic efforts to develop and evaluate psychological and behavioral theory, we strongly encourage Applicants to propose novel, state-of-the-art, and multidisciplinary approaches that address difficult problems. A key consideration in the decision to support a research proposal is that its findings are likely to stimulate new, basic behavioral research which, in turn, will lead to improved performance of Army personnel and their units. Additional information required may include representations and certifications, revised budgets or budget explanations, certificate of current cost or pricing data, subcontracting plan for small businesses, and other information as applicable to the proposed award. The anticipated award start date will be determined at this time.
The W.E.B. Du Bois Program supports quantitative and qualitative research that furthers the Department’s mission by advancing knowledge regarding the intersections of race, crime, violence, and the administration of justice within the United States. This solicitation seeks investigator-initiated proposals for funding to conduct research on topics linked to issues deemed critical by the U.S. Department of Justice, including: Reducing violent crime; Enhancing investigations and prosecution; Protecting police officers and other public safety personnel; Reducing victimization; and Enhancing immigration enforcement. The proposals should have clear implications for criminal justice policy and practice in the United States. NIJ seeks applications for funding from two categories of researchers: 1. W.E.B. Du Bois Scholars in Race and Crime Research – Researchers who are advanced in their careers (awarded a terminal degree at least six years prior to December 31, 2018) may apply for 36-month (or less) grants, with funding up to $500K for research and mentoring less-experienced researchers. 2. W.E.B. Du Bois Fellowship for Research on Race and Crime – Researchers who are early in their careers (awarded a terminal degree within six years prior to December 31, 2018) may apply for 24-month (or less) grants, with funding up to $250K for research. A period of residency at NIJ is optional, but not required.

NIJ is seeking applications for research and evaluation relating to hate crime victimization and perpetration. NIJ has identified the following research priorities: Examining the characteristics and motivations of offenders, including an understanding of pathways to hate crime offending. Research that develops new or tests existing typologies of hate crime offenders is also a priority. Information about the characteristics, motivations, and trajectories of individuals who commit hate crimes can aid in the development of evidence-informed interventions that match intervention components to targeted groups to prevent hate crimes from occurring; Identifying effective interventions targeted at preventing hate crime offenders from reoffending; Identifying effective interventions for addressing the needs of hate crime victims and their communities or working with individuals who commit hate crimes to prevent reoffending. Evaluation of interventions for victims of hate crime would be of particular relevance to victim service providers, while evaluating justice-based interventions aimed at offenders will help to inform the justice system about the most effective ways to prevent reoffending; Conducting research to assist police and prosecutors in responding to, investigating and prosecuting hate crimes. Research that has implications for increasing victim reporting, identifying effective strategies for investigating and prosecuting hate crimes, and improving data collection will be considered under this priority area. The need for improved data collection and research to assist law enforcement and prosecutors. NIJ expects to make up to 2 awards with an estimated total amount awarded of up to $1.5M. Awards will normally not exceed a three-year period of performance.

The CSSI funds rigorous research to produce practical knowledge that can improve the safety of schools and students. The initiative is carried out through partnerships between researchers, educators, and other stakeholders, including law enforcement, behavioral and mental health professionals, courts, and other justice system professionals. Projects funded under the CSSI are designed to produce knowledge that can be applied to schools and school districts across the nation, for years to come. This specific solicitation seeks applications for funding to support projects to demonstrate and evaluate the application of technologies to improve school safety. NIJ is particularly interested in supporting projects likely to provide credible and objective knowledge that schools may use to more effectively prevent and respond to school shootings and other incidents involving mass violence.
North American Wetlands Conservation Act Standard Grants
U.S. Fish & Wildlife Service

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

Solicitation number:

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

5/1/2018 Application

Desalination and Water Purification Research Program
Department of the Interior
https://www.grants.gov/web/grants/view-opportunity.html?oppId=301097

Contact: Yuliana Porras-Mendoza, 303/445-2265, yporrasmendoza@usbr.gov

Solicitation number: BOR-DO-18-F002

The DOI, Bureau of Reclamation’s Desalination and Water Purification Research Program works with Reclamation researchers and partners to develop more innovative, cost-effective, and technologically efficient ways to desalinate or treat water. By providing financial assistance to such research and technology innovation, the DWPR program supports the Department of the Interior’s priorities: 1) Creating a conservation stewardship legacy second only to Teddy Roosevelt 2) Utilizing our natural resources 3) Restoring trust with local communities 4) Striking a regulatory balance 5) Modernizing our infrastructure. DWPR’s goal is to increase water supplies by reducing the cost, energy consumption, and environmental impacts of treating impaired and otherwise unusable waters. Funding Group I: Laboratory scale projects are typically bench scale studies involving small flow rates (less than 2 gallons per minute). They are used to determine the viability of a novel process, new materials, or process modifications. Research at this stage often involves a high degree of risk and uncertainty. Up to $150K in Federal funds per proposal will be available under this funding group. Funding Group II: Pilot scale projects test a novel process at a sufficiently large scale to determine the technical, practical, and economic viability of the process and are generally preceded by laboratory studies (funded previously by DWPR or others) that demonstrate that the technology works. Up to $400K in Federal funds per proposal will be available under this funding group. This is divided as follows: up to $200K for the first year and up to $200K for an optional second year for finalizing testing, justified modifications, and evaluation. Second year funding is not guaranteed and depends on congressional funding and adequate work completed in the first year.

National Aeronautics and Space Administration (NASA)

4/26/2018 Step-1
6/28/2018 Step-2

ROSES 2018: Laboratory Analysis of Returned Samples
National Aeronautics and Space Administration

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

Solicitation number: NNH18ZDA001N-LARS

The goal of the LARS Program is to maximize the science derived from planetary sample-return missions. Activities supported by LARS fall into two categories: (1) development of laboratory instrumentation and/or advanced techniques required for the analysis of returned samples; (2) direct analysis of samples already returned to Earth. Maximum duration of awards is 4 years; shorter-term proposals are encouraged for Development proposals.
ROSES 2018: Ocean Salinity Field Campaign SPURS -2 Processing and Synthesis

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary.do?solld=%7B7B7775FB76-2B6B-23A5-7A13-6B0F2F1A5641%7D&path=nn

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

Solicitation number: NNH18ZDA001N-OSFC

The objective of this program element is to complete data processing collected during the salinity field campaign, known as the second Salinity Processes in the Upper-Ocean Regional Study (SPURS-2). This program element is open to individuals who were directly involved in data collection during the 2016-2017 SPURS-2 field work and seeks proposals supporting the validation, processing, synthesis, and archiving the data they collected. Other investigators not involved in the acquisition of data during SPURS-2 looking to submit proposals related to scientific analysis and exploitation of SPURS-2 data should respond to Ocean Salinity Science Team (OSST) in ROSES-2018 solicitation (see research topic 4 in A.11 program element). Investigations selected under both announcements will be incorporated into OSST meetings and activities. Expected program budget for first year of new awards is $650K. Maximum duration is 18 months.

5/15/2018  Application

ROSES 2018: Earth Surface and Interior

National Aeronautics and Space Administration


Contact: Benjamin Phillips, 202/358-5693, ben.phillips@nasa.gov

Solicitation number: NNH18ZDA001N-ESI

ESI requests the following types of research investigations in 2018. Pending sufficient availability of funds, it is NASA’s intent to update these foci and compete this element on an annual basis to best address scientific and programmatic priorities: 1. Innovative Solid-Earth Science: Innovative hypothesis-driven scientific research addressing the seven scientific challenges from NASA’s Challenges and Opportunities for Research in ESI (CORE) Report (2016). 2. Solid-Earth Observational Strategies: Proposals exploring observational strategies to meet priority ESI science objectives. Proposals that address ESI science objectives and associated remote sensing observations as identified in the National Academy of Sciences (NAS) Decadal Survey, Thriving on Our Changing Planet: A Decadal Strategy for Earth Observation from Space (2018), and the CORE Report will receive higher priority. Proposals that include instrument or technology development will be considered nonresponsive and returned without review. FOA funding will vary. Maximum duration of awards is 3 years.

5/17/2018  Application

ROSES 2018: Astrophysics Data Analysis

National Aeronautics and Space Administration


Contact: Douglas Hudgins, 202/358-0988, Douglas.M.Hudgins@nasa.gov

Solicitation number: NNH18ZDA001N-ADAP

The Astrophysics Data Analysis Program (ADAP) solicits research whose primary emphasis is the analysis of NASA space astrophysics data that are archived in the public domain at the time of proposal submission. Most of these data have undergone considerable reduction and refinement by way of calibrations and ordering and extensive data analysis software tools often exist for these data. Maximum duration of awards is 3 years. Shorter-term proposals are welcome.
ROSES 2018: Heliophysics Data Environment Enhancements

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary?solId={1572F443-9193-A7FB-2EE4-0C6F66E48388}&path=op

Contact: Jeffrey Hayes, 202/358-0353, jhayes@nasa.gov

Solicitation number: NNH18ZDA001N-HDEE

The H-DEE 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 B.1 of this ROSES NRA. The H-DEE program encompasses the data environment needs throughout Heliophysics, including Solar, Heliospheric, and Geospace Sciences (Magnetosphere and Ionosphere/Thermosphere/Mesosphere [ITM]).

As part of a mission-oriented agency, the Heliophysics Research Program seeks to fund those efforts that directly impact NASA missions or interpretation of their data. Therefore, investigations that are judged to be more appropriate for submission to other Federal agencies, even if of considerable merit, will not be given high priority for funding through this solicitation. It is anticipated that approximately $500K will be made available to support new selections for Data Environment Enhancements, all for Data Upgrades, with no prescribed limit on the individual proposal amount. Proposals are expected to be for one year, with a second year possible with strong justification.

ROSES 2018: Exobiology

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary?solId={230826F5-3897-2444-00D2-FF0DA8FBC59A}&path=op

Contact: Michael New, 202/358-1766, michael.h.new@nasa.gov

Solicitation number: NNH18ZDA001N-EXO

Research is centered on the origin and early evolution of life, the potential of life to adapt to different environments, and the implications for life elsewhere. This research is conducted in the context of NASA’s ongoing exploration of our stellar neighborhood and the identification of biosignatures for in situ and remote sensing applications. The areas of research emphases in this solicitation are as follows: Prebiotic Evolution; Early Evolution of Life and the Biosphere; Evolution of Advanced Life; Large Scale Environmental Change and Macro-Evolution; Biosignatures and Life Elsewhere. Maximum duration of awards is 4 years.

ROSES 2018: Exoplanets Research Program

National Aeronautics and Space Administration


Contact: Melissa Morris, 202/774-8476, melissa.a.morris@nasa.gov

Solicitation number: NNH18ZDA001N-XRP

The Exoplanets program element solicits basic research proposals to conduct scientific investigations related to the research and analysis of extrasolar planets (exoplanets). Its broad objectives include the determination of compositions, dynamics, energetics, chemical behaviors of extrasolar planets, and the detection and characterization of other planetary systems. This program element is shared between the Planetary Science Division and the Astrophysics Division. Research supported by this call may include observations, laboratory studies, theoretical studies, and modeling. Investigations that incorporate theory, modeling, laboratory studies, correlative analyses, and/or other research that would greatly increase the use of, or significantly facilitate the interpretation of, observational studies of exoplanetary systems are eligible for the Exoplanets Research Program. Such tasks that don’t directly contain observational studies will be judged on the perceived impact of the proposed work upon the interpretation of observations of exoplanetary systems, including the ability to compare results of laboratory measurements to observations, and the ability to test the validity of theories against observations. Maximum duration of awards is 3 years.
**ROSES 2018: Emerging Worlds**

National Aeronautics and Space Administration

[https://nspires.nasaprs.com/external/solicitations/summarylininit.do?solld={84F72734-9A8E-1BF6-84CA-1138CE677248}&path=op](https://nspires.nasaprs.com/external/solicitations/summarylininit.do?solld={84F72734-9A8E-1BF6-84CA-1138CE677248}&path=op)

Contact: Jeff Grossman, 202/358-1218, HQ-EMERGINGWORLDS@mail.nasa.gov

Solicitation number: NNH18ZDA001N-EW

Research in the area of "Emerging Worlds" aims to answer the fundamental science question of how the Solar System formed and evolved. It helps to advance the strategic science goal to "explore and observe the objects in the Solar System to understand how they formed and evolve" through basic research that supports planetary exploration, aids in the development of missions, and provides context for the interpretation of all Solar System observations that are relevant to its formation and evolution. Major interdisciplinary efforts to solve key questions are particularly valued. A wide range of investigations will be covered, including, but not limited to, theoretical studies, analytical and numerical modeling, sample-based studies of extraterrestrial materials, laboratory studies, and synthesis of previous work.

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**ROSES 2018: Cassini Data Analysis**

National Aeronautics and Space Administration


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.

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**ROSES 2018: Solar System Observations**

National Aeronautics and Space Administration

[https://nspires.nasaprs.com/external/solicitations/summarylininit.do?solld={22C6DBE5-E2E3-2089-5F2A-C01B0C2FF6EF}&path=op](https://nspires.nasaprs.com/external/solicitations/summarylininit.do?solld={22C6DBE5-E2E3-2089-5F2A-C01B0C2FF6EF}&path=op)

Contact: Kelly Fast, 202/358-0768, kelly.e.fast@nasa.gov

Solicitation number: NNH18ZDA001N-SSO

Solar System Observations (SSO) supports primarily ground-based and limited airborne- and space-based astronomical observations of bodies in our Solar System. Proposals are solicited for observations over the entire range of wavelengths, from the ultraviolet to radio, that contribute to the understanding of the nature and evolution of the Solar System and its individual constituents. Additionally, SSO supports NASA’s commitment to discover and inventory potentially hazardous near-Earth objects with sizes down to at least ~100 meters and to characterize that population through determination of their orbital elements. This program element will also consider proposals that characterize a representative sample of these objects by measuring their sizes, shapes, and compositions. Suborbital investigations involving balloons, sounding rockets, or aircraft are not being solicited until further notice. SSO contains two primary components: Planetary Astronomy and Near-Earth Object Observations. Maximum award duration is 3 years.
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, 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: Heliophysics - Early Career Investigator Program
National Aeronautics and Space Administration
https://nspires.nasaprs.com/external/solicitations/summary?do?solld={EF5B02E4-7A52-46F6-8AB0-1B23A797162C}&path=o
Contact: Elizabeth MacDonald, 202/358-0991, e.a.macdonald@nasa.gov
Solicitation number: NNH18ZDA001N-ECIP
The Early Career Investigator Program in Heliophysics is designed to support outstanding scientific research and career development of scientists and engineers at the early stage of their professional careers. The program aims to encourage innovative research initiatives and cultivate diverse scientific leadership in Heliophysics. This program is designed to foster the empowerment, inspiration, and education of the next generation of space researchers. The four high level science goals from the Heliophysics Decadal survey are: 1. Determine the origins of the Sun's activity and predict the variations in the space environment; 2. Determine the dynamics and coupling of Earth’s magnetosphere, ionosphere, and atmosphere and their response to solar and terrestrial inputs; 3. Determine the interaction of the Sun with the Solar System and the interstellar medium; 4. Discover and characterize fundamental processes that occur both within the heliosphere and throughout the universe.

ROSES 2018: Physical Oceanography
National Aeronautics and Space Administration
Contact: Eric Lindstrom, 202/358-4540, eric.j.lindstrom@nasa.gov
Solicitation number: NNH18ZDA001N-PO
Three research themes are identified in the Physical Oceanography program and represent priority areas for proposals solicited through this announcement: 1. Analysis and interpretation of the ocean circulation using satellite and in situ data, data-derived products, and NASA ocean state estimates (e.g. ECCO - Estimating the Circulation and Climate of the Oceans). Tailoring such proposals to support the objectives and priorities the U.S. CLIVAR Program is encouraged. NASA recommends that proposals focused on a single variable (e.g., sea level, ocean vector winds, salinity) that is already supported by a dedicated science team be submitted to those science team elements in ROSES. 2. Development of novel remote sensing techniques for physical oceanography. NASA has successfully developed remote sensing techniques for ocean surface winds, sea level, sea surface temperature, and sea surface salinity. Each of these variables has a science team and dedicated research activity. NASA will support modest proposals that explore new concepts for remote sensing of interest to physical oceanography. This opportunity is NOT for technology or instrument development, but for concept articulation and exploration. 3. The intensity and location of mixing in the ocean remains an area of active research. The third priority area for this year's announcement is seeking proposals that expand our spatial and temporal estimates of ocean mixing through the use of remote sensing and likely the joint analysis of satellite data sets with in situ ocean mixing (microstructure) data. Award budget pending proposals of merit.
ROSES 2018: Heliophysics Supporting Research

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary?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: Earth Science U.S. Participating Investigator

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary?solId={C01AB0C4-FDC4-D958-10C3-967947E2D367}&path=o

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

Solicitation number: NNH18ZDA001N-ESUSPI

NASA solicits proposals for USPI investigations on a foreign space mission that address the Earth Science Research Program objectives listed in the NASA Science Plan. This solicitation is for Earth science investigations that address the science questions listed in the NASA Science Plan and that contribute and facilitate access to foreign space agencies’ assets. Awards will be for a maximum of five years. If the proposed investigation is for more than five years, then a continuation proposal may be submitted in response to a future ROSES element for a new award covering a period of up to five additional years.

National Endowment for the Arts (NEA)

7/12/2018  Application

Art Works 2018 - Limited Submission

National Endowment for the Arts

https://www.arts.gov/grants-organizations/art-works/grant-program-description

Contact: varies

Solicitation number:

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

National Endowment for the Humanities (NEH)

7/12/2018  2nd Art Works Deadline

Art Works 2018 - Limited Submission

National Endowment for the Arts

https://www.arts.gov/grants-organizations/art-works/grant-program-description

Contact: varies

Solicitation number:

Art Works projects support public engagement with, and access to, various forms of excellent art across the nation, the creation of art that meets the highest standards of excellence, learning in the arts at all stages of life, and the integration of the arts into the fabric of community life. NEA encourages projects that: 1) Celebrate America’s creativity and cultural heritage; 2) Invite a dialogue that fosters a mutual respect for the diverse beliefs and values of all persons and groups; or 3) Enrich our humanity by broadening our understanding of ourselves as individuals and as a society. An organization may request a grant amount from $10K to $100K. Applications will be accepted under two deadlines, depending on discipline. All grants require a nonfederal match of at least 1 to 1.
Fellowships for Advanced Social Science Research on Japan

National Endowment for the Humanities, Division of Research Programs

https://www.neh.gov/grants/research/fellowships-advanced-social-science-research-japan

Contact: 202/606-8200, fellowships@neh.gov

Solicitation number: 20150430-FO

Awards support research on modern Japanese society and political economy, Japan's international relations, and U.S.-Japan relations. The program encourages innovative research that puts these subjects in wider regional and global contexts and is comparative and contemporary in nature. The fellowships are designed for researchers with advanced language skills whose research will require use of data, sources, and documents in their original languages or whose research requires interviews onsite in direct one-on-one contact. Fellows may undertake their projects in Japan, the United States, or both, and may include work in other countries for comparative purposes. Fellowships support continuous full-time work for a period of six to twelve months. Successful applicants receive a stipend of $4.2K per month. The maximum stipend is $50.4K for a twelve-month period.

Preservation and Access Education and Training

National Endowment for the Humanities, Division of Preservation and Access

https://www.neh.gov/grants/preservation/preservation-and-access-education-and-training

Contact: 202/606-8570, preservation@neh.gov

Solicitation number:

These grants aim to help the staff of cultural institutions obtain the knowledge and skills needed to serve as effective stewards of humanities collections. Grants support educational programs that prepare the next generation of conservators and preservation professionals, as well as projects that introduce the staff of cultural institutions to new information and advances in preservation and access practices. Awards normally are for two years. Grants to regional preservation field service organizations may not exceed $175K per year. For all other applicants, the maximum award is $100K per year. Although cost sharing is not required, NEH is rarely able to support the full costs of projects approved for funding. In most cases, NEH grants cover no more than 80 percent of project costs.

Common Heritage

National Endowment for the Humanities

https://www.neh.gov/grants/preservation/common-heritage

Contact: 202/606-8570, preservation@neh.gov

Solicitation number:

The program supports day-long events organized by community cultural institutions, which members of the public will be invited to attend. At these events experienced staff will digitize the community historical materials brought in by the public. Project staff will also record descriptive information—provided by community attendees—about the historical materials. Contributors will be given a free digital copy of their items to take home, along with the original materials. Projects must also present public programming that would expand knowledge of the community’s history. Public programs could include lectures, panels, reading and discussion, special gallery tours, screening and discussion of relevant films, presentations by a historian, special initiatives for families and children, or comments by curators about items brought in by the public. These public programs should provide a framework for a deeper understanding of the community members’ shared or divergent histories. Grants of up to $12K will be awarded for a period of eighteen months.

National Institutes of Health (NIH)
U.S. Tobacco Control Policies to Reduce Health Disparities (R01)

National Institutes of Health


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

Solicitation number: PAR-17-217

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

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

National Institutes of Health


Contact: Guillermo Arreaza-Rubin, 301/594-4724, arreazag@mail.nih.gov

Solicitation number: RFA-DK-17-024

This FOA encourages applications from institutions/organizations proposing clinical studies of the use of current and emerging technologies for monitoring of blood glucose and insulin administration in older adults. (aged 65 years or older) Older adults may have increased vulnerability to hypoglycemia, cognitive impairment and/or multiple co-morbidities which may affect the risks and benefits of these technologies in this population. This research is intended to improve health, glucose control and quality of life of older patients with type 1 diabetes Only human studies will be considered responsive to this FOA; applications involving animal or in vitro studies are not responsive to this FOA. Application budgets are limited to $500K direct costs per year, exclusive of indirect costs on subcontracts, per year. Budgets are expected to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 4 years.

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

National Institutes of Health


Contact: Guillermo Arreaza-Rubin, 301/594-4724, arreazag@mail.nih.gov

Solicitation number: RFA-DK-17-023

This FOA encourages investigative teams to develop research projects applying diabetes technologies to improve clinical outcomes. Research is sought in three key areas: a) Clinical/behavioral research focused on enhancing the application of new technology for glucose sensing and insulin/pancreatic hormone delivery to improve glucose control and reduce hypoglycemia in patients with type 1 diabetes including high risk patients, b) Studies that use new technologies to better understand or improve physiological mechanisms affecting glucose control in type 1 diabetes, and c) Research to test and improve the efficacy, safety, accuracy and reliability of these new technologies in humans. Only clinical trials will be considered responsive to this FOA. The main goal of this FOA is to improve glucose control and quality of life of patients with type 1 diabetes. Only human studies will be considered responsive to this FOA, applications involving animal or in vitro studies are not responsive to this FOA. Application budgets are limited to $500K direct costs per year, exclusive of indirect costs on subcontracts, per year. Budgets are expected to reflect the actual needs of the proposed project. The scope of the project period should determine the project period. The maximum project period is 4 years.
Perception and Cognition Research to Inform Cancer Image Interpretation (R01 Clinical Trial Optional)

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.

Short-term Mentored Career Enhancement Awards for Mid-Career Investigators to Integrate Basic Behavioral and

This FOA encourages applications for mentored career development (K18) awards that improve synergies among researchers in basic and applied behavioral-social sciences, human subjects and model animals settings; and biomedical sciences. This FOA is designed specifically for applicants proposing to serve as the lead investigator of an independent clinical trial, a clinical trial feasibility study, or a separate ancillary study to an existing trial, as part of their research and career development. Applicants not planning an independent clinical trial, or proposing to gain research experience in a clinical trial led by another investigator, must apply to companion FOA (PAR-18-349). The total project period may not exceed 1 year.
BRAIN Initiative: New Concepts and Early - Stage Research for Large - Scale Recording and Modulation in the Nervous System

National Institutes of Health


Contact: Martha Flanders, 301/451-2020, BRAIN-FOAs@nih.gov

Solicitation number: RFA-EY-18-001

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

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

National Institutes of Health


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

Solicitation number: PAR-17-171

The purpose of this FOA is to encourage investigator-initiated research efforts aimed at the development and characterization of state-of-the-art biomimetic tissue-engineered technologies for cancer research. Tissue-engineered in vitro and ex vivo systems that reflect the pathology and physiology of human disease are needed within the existing continuum of cancer models as new tools for studying cancer biology. Complementary implementation of these tools with existing cancer models is envisioned to ultimately lead to advances in cancer prevention, early detection of aggressive cancer, diagnosis and treatment. To date, only a handful of validated, biologically relevant tissue-engineered technologies exist for addressing specific cancer research questions. Recent technological advances in biomimetic tissue-engineered systems for the purposes of regenerative medicine could allow for new, innovative applications to cancer research. This FOA will support multidisciplinary research projects, and the funded investigators will collectively establish and participate in the Cancer Tissue Engineering Collaborative (TEC) Research Program. Funded investigators will also be invited to attend meetings associated with the NCI Physical Sciences-Oncology Network (PS-ON). The Cancer TEC research projects will focus on the development and characterization of in vitro systems using tissue-engineered technologies that mimic tumor biology to elucidate specific cancer phenomena that are otherwise difficult to examine in vivo. This FOA is intended to encourage collaborative, multidisciplinary projects that engage the fields of cancer research with regenerative medicine, tissue engineering, biomaterials, and bioengineering. It is also expected to catalyze the advancement of innovative, well characterized in vitro and ex vivo systems available for cancer research, expand the breadth of these systems to several cancer types, and promote the exploration of cancer phenomena with biomimetic tissue-engineered systems beyond commonly studied areas such as cell migration and angiogenesis. Applicants are encouraged to leverage existing resources, such as in vivo models, imaging techniques, or computational models. Budgets are limited to $400K Direct Costs per year. Application budgets should reflect the actual needs of the proposed project. The maximum project period is 5 years. The scope of the proposed project should determine the project period.
Program for Extramural/Intramural Alcohol Research Collaborations (U01 Clinical Trial Optional)

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.

New Epidemiology Cohort Studies in Heart, Lung, Blood, and Sleep Diseases and Disorders (U01 - Clinical Trial Not Optional)

The purpose of this FOA is to support new and innovative epidemiology research in heart, lung, blood, and/or sleep diseases, disorders, and/or phenotypes. Through this FOA, the National Heart, Lung, and Blood Institute (NHLBI) aims to establish a new epidemiology cohort of at least 2000 participants to stimulate research on a wide range of heart, lung, blood, and/or sleep research hypotheses. The purpose of this FOA is to support new and innovative epidemiology research in heart, lung, blood, and/or sleep diseases, disorders, and/or phenotypes. To facilitate novel epidemiology research, the NHLBI aims to support a new cohort of at least 2000 participants to address a range of research questions that cannot be studied in the large epidemiology cohort studies currently funded by the NHLBI. Cohort studies that align with the Institute's Strategic Vision are of great programmatic interest, as are cohort studies that address research gaps in heart, lung, blood, and/or sleep disorders. As a guidance, application budgets should not exceed $1.948M in direct costs in the first year of the project period, and should not exceed $3.896M in direct costs in any subsequent year of the project period. Application budgets should reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 6 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 comorbidity 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.

Alcohol Use Disorders: Behavioral Treatment, Services and Recovery Research (R01 Clinical Trial Optional)

National Institutes of Health
Contact: Brett Hagman, 301/443-0638, brett.hagman@nih.gov
Solicitation number: PA-18-194
This FOA encourages grant applications from institutions/organizations that propose to support research on behavioral treatment for alcohol use disorders; organizational, financial, and management factors that facilitate or inhibit the delivery of services for alcohol use disorders; and phenomenon of recovery from alcohol use disorders. Research objectives of this FOA include, but are not limited to, research within the following three broad research domains: (1) behavioral therapies and mechanisms of behavioral change; (2) health services research; and (3) recovery research. Cutting across these domains, NIAAA encourages studies on a number of special emphasis populations and topics including: (a) comorbidity of PTSD and alcohol use disorders, (b) treatment for adolescents, (c) fetal alcohol spectrum disorders, (d) health disparities/special populations, and (e) use of novel methods and technologies. Application budgets are not limited, but must reflect the actual needs of the proposed project. The project period may not exceed five 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.

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.

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

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


Contact: Varies with research interest

Solicitation number: PAR-15-346

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

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

National Institutes of Health


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

Solicitation number: RFA-DK-17-020

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

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**Development of New Technologies and Bioengineering Solutions for the Advancement of Cell Replacement Therap**

National Institutes of Health


Contact: Guillermo Arreaza-Rubin, 301/594-4724, arreazag@mail.nih.gov

Solicitation number: RFA-DK-18-004

This FOA encourages applications from institutions/organizations proposing original research addressing barriers that limit progress toward effective cell replacement therapies for type 1 diabetes (T1D). The purpose is to support research leading to the development and testing of novel and supportive technologies for the improvement of cell replacement interventions using novel biomaterials and devices for T1D treatment. Application budget is limited to $500K direct costs per year. The scope of the proposed project should determine the project period. The maximum project period is 4 years.
Discovery of Early Type 1 Diabetes Disease Biomarkers in the Human Pancreas [HIRN Consortium on Beta Cell Death]
National Institutes of Health
Contact: Xujing Wang, 301/451-7334, Xujing.Wang@nih.gov
Solicitation number: RFA-DK-17-021
This initiative will support the exploration of human pancreatic tissues for the discovery of early biomarkers of human T1D pathogenesis, and for the description of impaired signaling or processing pathways in human beta cells that may trigger inflammation within the islet and contribute to the development of a cell-specific autoimmune response. In the context of this initiative, a “biomarker” is understood as a biomolecule (secreted or not), or a cell type or cell subtype, that is present in the islet compartment or in the larger pancreatic tissue environment during the asymptomatic phase of the disease, and can shed light on the pathogenic events that lead to the demise of pancreatic beta cells in early T1D. This initiative encourages the use of such biomarkers, alone or in combination, for the development of highly-sensitive and highly-specific assays for the detection and staging of early disease, and for the identification of cellular or molecular components of the pancreatic environment that could serve as therapeutic targets for preventative or early treatment strategies. This initiative will also support the description of specific human islet signaling or processing pathways that may contribute significantly to T1D pathogenesis, for example through the production of misexpressed or misprocessed cell products, or the engagement of abnormal cellular responses (including senescence, apoptosis and pro-inflammatory cytokine production) that may alter beta cell function, state or survival, or lead to the specific recruitment and activation of immune cells. Validation of the contribution of such pathways to T1D pathogenesis using clinical tissue specimens or bio-samples is encouraged as part of the application, but is not required. Application budgets are limited to $500K Direct Costs per year. Budgets are expected to reflect the actual needs of the proposed project. The maximum project period is 4 years.

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.

International Bioethics Research Training Program (D43)
National Institutes of Health
Contact: Barbara Sina Ph.D., 301/401-9467, sinab@mail.nih.gov
Solicitation number: PAR-16-454
The overall goal of this initiative is to support the development of a sustainable critical mass of bioethics scholars in low and middle income country (LMIC) research intensive institutions with the capabilities to conduct original empirical or conceptual ethics research that addresses challenging issues in health research and research policy in these countries as well as provide research ethics leadership to their institutions, governments and international research organizations. FIC will support LMIC-U.S. collaborative institutional bioethics doctoral and postdoctoral research training programs that incorporate didactic, mentored research and training components to prepare a number of individuals with ethics expertise for positions of scholarship and leadership in health research institutions in the LMIC. Applicants may request up to $230K direct costs per year.
Maximizing Investigators' Research Award (R35)

National Institutes of Health


Contact: Varies

Solicitation number: PAR-17-094

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

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

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

National Institutes of Health


Contact: Roger Miller, 301/402-3458, millerr@nidcd.nih.gov

Solicitation number: PAR-17-184

The objective of this FOA is to provide support for research studies that translate basic research findings into better clinical tools for human health. The application should seek to translate basic behavioral or biological research findings, which are known to be directly connected to a human clinical condition, to a practical clinical impact. Tools or technologies advanced through this FOA must overcome existing obstacles and should provide improvements in the diagnosis, treatment or prevention of a disease process. For the purposes of this FOA, the basic science advancement must have previously demonstrated potential for clinical impact and the connection to a human clinical condition must be clearly established. The research must be focused on a disease/disorder within one or more of the NIDCD scientific mission areas: hearing, balance, smell, taste, voice, speech or language. Research conducted under this FOA is expected to include human subjects. Preclinical studies in animal models are allowed only for a candidate therapeutic that has previously demonstrated potential for the treatment of communication disorders. The scope of this FOA allows for a range of activities encouraging the translation of basic research findings to practical impact on the diagnosis, treatment and prevention of deafness and other communication disorders. 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.
**NIMH Biobehavioral Research Awards for Innovative New Scientists (NIMH BRAINS) (R01)**

National Institutes of Health


Contact: Kathleen Anderson, 301/443-5944, kanders1@mail.nih.gov

Solicitation number: RFA-MH-18-200

The mission of the National Institute of Mental Health is to transform the understanding and treatment of mental illnesses through basic and clinical research, paving the way for recovery, prevention, and cure. An essential element of this mission is the support and career promotion of the future generation of exceptionally talented and creative new scientists who will transform the understanding and treatment of mental illnesses and enable NIMH to fulfill its vision of a world in which mental illnesses are prevented and cured. The NIMH supports a number of training and fellowship programs for pre- and postdoctoral training, as well as mentored career development awards for faculty in the early stages of their career. However, even with these career development mechanisms in place, to fulfill its mission of assuring a cadre of productive, highly innovative mental health investigators for the future, NIMH needs to support additional programs to identify and inspire the best new investigators and facilitate their establishing high impact, independent research programs in areas relevant to the mission of the NIMH. This award is intended to provide support for highly promising early stage investigators who may lack the preliminary data required for a traditional R01 and allow them to pursue their most innovative, creative, and potentially most impactful ideas at an earlier stage in their career. An applicant may request a budget for direct costs up to $1.625M dollars with no more than $400K in direct costs for any single year. The total project period for an application submitted in response to this FOA may not exceed five years.

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**NIMH Biobehavioral Research Awards for Innovative New Scientists (NIMH BRAINS) (R01 Clinical Trial Optional)**

National Institutes of Health


Contact: Kathleen Anderson, 301/443-5944, kanders1@mail.nih.gov

Solicitation number: RFA-MH-19-130

The mission of the NIMH is to transform the understanding and treatment of mental illnesses through basic and clinical research, paving the way for recovery, prevention, and cure. An essential element of this mission is the support and career promotion of the future generation of exceptionally talented and creative new scientists who will transform the understanding and treatment of mental illnesses and enable NIMH to fulfill its vision of a world in which mental illnesses are prevented and cured. The NIMH supports a number of training and fellowship programs for pre- and postdoctoral training, as well as mentored career development awards for faculty in the early stages of their career. However, even with these career development mechanisms in place, to fulfill its mission of assuring a cadre of productive, highly innovative mental health investigators for the future, NIMH needs to support additional programs to identify and inspire the best new investigators and facilitate their establishing high impact, independent research programs in areas relevant to the mission of the NIMH. This award is intended to provide support for highly promising early stage investigators who may lack the preliminary data required for a traditional R01 and allow them to pursue their most innovative, creative, and potentially most impactful ideas at an earlier stage in their career. To support its mission, NIMH has formulated a Strategic Plan with the following four overarching objectives: 1. Define the mechanisms of complex behaviors; 2. Chart mental illness trajectories to determine when, where, and how to intervene; 3. Strive for prevention and cures; 4. Strengthen the public health impact of NIMH-supported research. An applicant may request a budget for direct costs up to $1.625 million dollars with no more than $400K in direct costs for any single year. The total project period for an application submitted in response to this FOA may not exceed five years.
Revolutionizing Innovative, Visionary Environmental Health Research (RIVER) (R35 Clinical Trial Not Allowed)

National Institutes of Health


Contact:  David Balshaw, 984/287-3234, Balshaw@nih.gov

Solicitation number:  RFA-ES-18-004

The NIEHS Revolutionizing Innovative, Visionary Environmental health Research (RIVER) program seeks to provide support for the majority of the independent research program for outstanding investigators in the Environmental Health Sciences, giving them intellectual and administrative freedom, as well as sustained support to pursue their research in novel directions in order to achieve greater impacts. The program seeks to identify individuals, regardless of career stage, with a potential for continued innovative and impactful research and combine their existing investigator-initiated research into a single award with a duration of up to 8 years and direct costs of $600K and potentially up to $750K based on current NIEHS funding to be consolidated into the award.

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

National Institutes of Health


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

Solicitation number:  PAR-17-185

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

Innovative Research in Cancer Nanotechnology (IRCN) (R01)

National Institutes of Health


Contact:  Piotr Grodzinski, 301/451-8983, grodzinp@mail.nih.gov

Solicitation number:  PAR-17-240

The purpose of this FOA on Innovative Research in Cancer Nanotechnology (IRCN) is to expand the fundamental understanding of the processes pertinent to the use of nanotechnology in cancer. The goal of IRCN projects is to generate new fundamental knowledge associated with the development of nanotechnology-based solutions to major problems in cancer-biology and/or oncology. The outcomes of IRCN-supported projects should inspire and aid the ultimate development of innovative, clinically relevant nanotechnology solutions for cancer (although prospective clinical translation of the IRCN findings remains beyond the scope of this FOA). Projects supported by the IRCN initiative should incorporate multidisciplinary research efforts in biology/oncology, chemistry, physics, and/or engineering. Application budgets are limited to $450K in direct costs per year and need to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 5 years.
Large Health Services Research Demonstration and Dissemination Projects for Prevention of Healthcare-Associated Infections

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 Institutes of Health

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

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

National Institutes of Health
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.

High-End Instrumentation (HEI) Grant Program (S10 Clinical Trial Not Allowed)

National Institutes of Health


Contact: Abraham Levy, 301/435-0772, HEI@mail.nih.gov

Solicitation number: PAR-18-598

The HEI Grant Program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instruments or integrated systems. The minimum award is $600K. The maximum award is $2M. Types of instruments supported include, but are not limited to: X-ray diffraction systems, nuclear magnetic resonance (NMR) and mass spectrometers, DNA and protein sequencers, biosensors, electron and confocal microscopes, cell-sorters, and biomedical imagers. It is expected that applicants will employ the best economical approaches, including securing academic discounts, if applicable, to formulate the cost-effective budget while meeting users' scientific needs. Awards are made for one year only.

Shared Instrumentation Grant (SIG) Program (S10 Clinical Trial Not Allowed)

National Institutes of Health


Contact: Alena Horska, 301/435-0772, SIG@mail.nih.gov

Solicitation number: PAR-18-600

The purpose of this FOA is to continue the Shared Instrumentation Grant (SIG) Program administered by ORIP. The objective of the Program is to make available to institutions expensive research instruments that can only be justified on a shared-use basis and that are needed for NIH-supported projects in basic, translational or clinical areas of biomedical and bio-behavioral research. The SIG Program provides funds to purchase or upgrade a single item of expensive, state-of-the-art, specialized, commercially available instrument or an integrated instrumentation system. An integrated instrumentation system is one in which the components, when used in conjunction with one another, perform a function that no single component could provide. The components must be dedicated to the system and not used independently. Types of supported instruments include, but are not limited to: X-ray diffractometers, mass and nuclear magnetic resonance (NMR) spectrometers, DNA and protein sequencers, biosensors, electron and light microscopes, cell sorters, and biomedical imagers. Applications for "stand alone" computer systems (supercomputers, computer clusters and data storage systems) will only be considered if the instrument is solely dedicated to biomedical research. Instruments must be for research purposes only. Applications will be accepted that request a single, commercially available instrument or an integrated system. The minimum award is $50K. There is no upper limit on the cost of the instrument, but the maximum award is $600K. Since the cost of the various instruments will vary, it is anticipated that the amount of the award will also vary. It is expected that applicants will employ the best economical approaches, including securing academic discounts, to formulate the cost-effective budget while meeting users' scientific needs. Awards are made for one year only.
Innovative Approaches to Studying Cancer Communication in the New Media Environment (R01)

National Institutes of Health

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

Solicitation number: PAR-16-249

This FOA invites applications that seek to apply one or more innovative methodologies in communication research across the cancer control continuum, from prevention, early detection, diagnosis, treatment, and survivorship, to end of life. Applications to this FOA should utilize one or more of the following analytic approaches, methods, and data sources, including but not limited to social media data mining, Natural Language Processing (NLP) techniques, online social network analysis, crowdsourcing research tools (e.g., mTurk), online search data, Ecological Momentary Assessment, neuroscience and biobehavioral approaches to communication, and geographic information systems. Studies should assess outcomes related to cancer prevention and control (e.g., knowledge, attitudes, beliefs, perceived risk, decision making in screening and treatment, information inequalities, social support, shared decision making, persuasion, caregiving, behavioral intentions, preventive behaviors, and policy support, among others). This FOA runs in parallel with an FOA of identical scope, PAR-16-248, that utilizes the R21 Exploratory/Developmental Grant mechanism. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

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.
Pregnancy in Women with Disabilities (R01)
National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), Nation
Contact: Maurice Davis, 301/435-6887, Maurice.Davis@mail.nih.gov
Solicitation number: PA-17-452

This FOA encourages research project grants (R01) investigating the incidence, course, and outcomes of pregnancy among women with disabilities. Areas of interest also include studies to inform preconceptional and antenatal counseling and strategies for addressing barriers to prenatal care, and management of pregnancy, the puerperium, and the transition to parenthood in order to optimize outcomes for women with physical, intellectual and developmental, and/or sensory disabilities and their families. Applicants are encouraged to include women with disabilities and members of the community in the design and conduct of their research.

Ethical, Legal, and Social Implications (ELSI) of Genomics Research Project Grant Program (R01)
National Institutes of Health
Contact: Joy Boyer, 301/402-4997, jb40m@nih.gov
Solicitation number: PA-17-444

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

Advancing Understanding, Prevention, and Management of Infections Transmitted from Women to their Infants (R
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@nih.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.

Synthetic Biology for Engineering Applications (R01)

National Institutes of Health

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

Solicitation number: PAR-17-334

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

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

National Institutes of Health

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

Solicitation number: PAR-17-336

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

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

National Institutes of Health


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

Solicitation number: PAR-17-438

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

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

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

National Institutes of Health


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

Solicitation number: PA-17-440

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

Addressing Health Disparities in NIDDK Diseases (R01)

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)

National Institutes of Health


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

Solicitation number: PA-18-260

This FOA encourages applications using community-engaged research methods to investigate the potential health risks of environmental exposures of concern to the community and to implement an environmental public health action plan based on research findings. The overall goal is to support changes to prevent or reduce exposure to harmful environmental exposures and improve the health of a community. The two main objectives of this initiative, however, remain the same: 1) to conduct research to collect and characterize information about environmental health concerns of significance to a community and 2) to develop and implement a strategy to translate and disseminate research findings to community members, public health professionals and/or policymakers to support an action that will ultimately promote the reduction of exposure and reduce the health impact from environmental stressors. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum project period is 5 years.

Advancing Understanding, Prevention, and Management of Infections Transmitted from Women to their Infants (R)

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 O)

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 scope of the proposed project should determine the project period. 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.
Advanced-Stage Development and Utilization of Research Infrastructure for Interdisciplinary Aging Studies (R33 - C)

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

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

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.
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.

Funding For Collaborative Clinical Research In Type 1 Diabetes: Living Biobank (R01 Clinical Trial Optional)

National Institutes of Health

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

Solicitation number: RFA-DK-17-032

This FOA invites applications for studies of etiology and pathogenesis related to development of type 1 diabetes (T1D) and/or its complications. Studies must involve subjects enrolled and followed in clinical trials, long term follow-up, or observational studies. This opportunity is intended to fund collaborative projects that bring new expertise and innovative approaches to enhance the value of major ongoing clinical research projects. Funding will be provided for new approaches or assessments not currently addressed within the scope of the existing clinical research in progress, but for which there is an opportunity in terms of access to subjects. Projects must be clearly collaborative, with realistic goals and methods of approach that are feasible within the ongoing project. Applications can ask for costs as necessary for collaborative recruitment and retention of subjects (within the pool provided by the ongoing project), interventions, other types of measurements such as imaging or other tests, special sample collection and shipping, sample processing and analysis, data analysis, integration and interpretation. Successful applicants are expected to abide by the policies and procedures for data sharing and publications described on each consortium’s website and consistent with NIH policies for data sharing. Application budgets are limited to $600K direct costs per year. The scope of the proposed project should determine the project period. The maximum project period is 5 years. Budgets are expected to reflect the actual needs of the proposed project.
Treating Diabetes Distress to Improve Glycemic Outcomes in Type 1 Diabetes (R01 Clinical Trial Required)

National Institutes of Health


Contact: Barbara Linder, 301/594-0021, linderb@mail.nih.gov

Solicitation number:  RFA-DK-17-028

This FOA seeks applications for clinical trials testing interventions targeting diabetes distress in individuals with T1D, especially those who have inadequate glycemic control, with the goal of understanding whether lowering diabetes distress will improve HbA1c levels or other glycemic outcomes as well as improve quality of life for the patient and/or family members. Applications to this FOA may address any age group across the lifespan, but each application should focus on a specific age range, given the different developmental needs and approaches to treatment. For example, applications might focus on parents of young children, school-age children, adolescents and young adults, working age adults, or older adults (65 and older). In addition, applications may address diabetes distress in parents or other family members, and partners. Diabetes distress may be shared between patients and caregivers/support persons but may also be experienced differently between these groups. Application budgets are limited to $500K direct costs per year. Budgets are expected to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is 4 years.

Incorporating Patient-Reported Outcomes into Clinical Care for Type 1 Diabetes (R01 Clinical Trial Required)

National Institutes of Health


Contact: Barbara Linder, 301/594-0021, linderb@mail.nih.gov

Solicitation number:  RFA-DK-17-027

This FOA will support research to test approaches in the health care setting to using Patient-Reported Outcomes (PROs) as tools to enhance patient-centered treatment and improve outcomes in patients with T1D. For example, information gained from PROs may be used by the healthcare team to aid in collaborative communication with the patient/family to facilitate shared decision-making, improve self-management behaviors, overcome barriers to the adoption of new technologies for diabetes management, and identify situations when referral to a behavioral specialist is needed to support coping and address emotional issues. The long-term goals of using PROs should be to enhance the patient's/family's sense of well-being and improve self-management while optimizing glycemic control to prevent complications. Application budgets are limited to $375K direct costs per year. Budgets are expected to reflect the actual needs of the proposed project. The scope of the proposed project should determine the project period. The maximum project period is four years.

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

National Institutes of Health


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

Solicitation number:  PAR-18-679

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

Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs

National Institutes of Health


Contact:

Solicitation number: RFA-RM-15-018

The purpose of this Funding Opportunity Announcement (FOA) is to invite applications (via limited competition) for SPARC Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs. These projects will comprehensively provide data for developing detailed, predictive functional and anatomical neural circuit maps for neural control of major functions of organs and their functionally-associated structures. Each project is to focus on a specific organ and the afferent and efferent innervation that controls function of the organ. Applications are only accepted after successful competition of the corresponding OT1 pre-application (See RFA-RM-15-003) and invitation to the applicant to submit the OT2 application.

Chemical Discovery (CHEM) Award (R21/R33)

National Institutes of Health


Contact: Kristopher Bough, 301/443-9800, boughk@mail.nih.gov

Solicitation number: PAR-16-384

The purpose of this FOA is to support the development of chemical probes that aid basic research investigations on substance use disorders (SUDs) or identify new lead chemical scaffolds with potential for structure activity relationship (SAR) studies on SUDs. In the long term, it is hoped that these lead chemical scaffolds will provide a greater number of pharmacological tools for basic research and possible drug candidates for medications development. For the R21 phase, direct costs are limited to $275K over a two-year project period, with a maximum of $200K allowed in any single year. The R33 phase is limited to $250K in direct costs per year. The total project period may not exceed 4 years.

AHRQ Small Research Grant Program (R03)

National Institutes of Health


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

Solicitation number: PA-15-147

This FOA encourages Small Research Grant (R03) applications, and expresses AHRQ priority areas of interest for ongoing small research projects. The R03 grant mechanism supports different types of health services research projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. The budget limit on small project grant applications is $100k total costs (i.e., direct costs plus Facilities and Administrative (F&A) costs) for the entire project period, regardless of the length of the proposed project period.
**NINDS Exploratory Neuroscience Research Grant (R21- Clinical Trial Optional)**

National Institutes of Health


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

Solicitation number: PA-18-358

The NINDS Exploratory Neuroscience Research Grant program supports exploratory and innovative research projects, which fall within the mission of the NINDS. Awards will provide support for the early and conceptual stages of projects. These studies often assess the feasibility of a novel avenue of investigation and involve considerable risk, but have the potential to bring about breakthroughs in the understanding of important areas of neuroscience, or to the development of novel techniques, agents, methodologies, or models, of high value to the neuroscience community. Direct costs are limited to $275K over a two-year period, with no more than $200K in direct costs allowed in any single year. The maximum project period is two years.

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

National Institutes of Health


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

Solicitation number: PAR-18-102

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

**Integrative Research on Polysubstance Abuse and Addiction (R21)**

National Institutes of Health


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

Solicitation number: PAR-18-084

This Funding Opportunity Announcement (FOA) is supported by Collaborative Research on Addiction (CRAN) at the National Institutes of Health (NIH), a trans-NIH partnership composed of the National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Institute on Drug Abuse (NIDA), and the National Cancer Institute (NCI). The intent of this FOA is two-fold: (1) characterize how the neurobiological alterations, associated behaviors, and public health consequences arising from polysubstance use differ from, or are similar to, those observed in single drug use; (2) promote integrative polysubstance research along a translational pipeline, consisting of basic science research in animals, human-based laboratory investigations, and epidemiological studies. These dual objectives will be accomplished with a Phased Innovation (R21/R33) mechanism, where polysubstance research can occur in any of these translational stages during the R21 phase and these findings will be rapidly back- or forward-integrated into another stage during the R33 phase, allowing for bi-directional research exchange. For the R21 phase, the combined budget for direct costs during the two-year project period may not exceed $275k with no more than $200k requested in a single year. For the R33 phase, the direct costs should not exceed $500k per year. The project period is limited to 2 years for the R21 phase and up to 3 years for the R33 phase. The total project period may not exceed 5 years.
NIDA Small Research Grant Program (R03 Clinical Trial Required)

National Institutes of Health


Contact: Guifang Lao, 301/827-5931, laog@nida.nih.gov

Solicitation number: PA-18-634

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

Clinical Validation of a Candidate Biomarker for Neurological Disease (U44 Clinical Trial Optional)

National Institutes of Health


Contact: Victoria Smith, 301/496-1779, victoria.smith@ninds.nih.gov

Solicitation number: PAR-18-548

The purpose of this FOA is to encourage applications from Small Business Concerns (SBCs) to support rigorous clinical validation of a candidate biomarker using retrospective and/or prospective methods in a manner that is consistent with the purpose of the biomarker. This FOA assumes that: 1) a candidate biomarker has already been identified, 2) an analytical method has been developed and validated that is consistent with the purpose of the biomarker and 3) a working hypothesis regarding context of use is in place. The goal of this FOA is to facilitate the advancement of robust and reliable biomarkers of diseases that fall within the mission of NINDS to application in clinical trials and practice (Phase II clinical trials and beyond). Applicants should rarely exceed up to $700K total cost per year for Phase I and up to $1.5M total cost per year for the Phase II. In all cases, applicants should propose a budget that is reasonable and appropriate for completion of the research project. Durations up to 2 years for Phase I and up to 3 years for Phase II may be requested.
Emotional Function in Normal Aging and/or MCI and AD/ADRD (R21 Clinical Trial Not Allowed)

National Institutes of Health


Contact: Lis Nielsen, 301/402-4156, nielsenli@nia.nih.gov
Solicitation number: PAR-18-582

This FOA invites applications that expand on foundational research demonstrating generally improved emotional function and emotion regulation with aging, to further clarify the trajectories of change in emotion processing and linked neurobiological factors in adults who are aging normally, as well as in individuals with mild cognitive impairment (MCI), Alzheimer’s disease (AD), and Alzheimer’s disease-related dementias (ADRD). The goal is three-fold: to advance understanding of (1) normative maturational shifts in emotional processes, (2) how dysfunction in the integrative neural-behavioral mechanisms of emotional function might manifest in MCI and the early stages of AD/ADRD, and/or (3) how such dysfunction might account for any of the neuropsychiatric symptoms observed in AD/ADRD. Such studies may identify novel targets for interventions or prevention efforts, or provide clues to intervention strategies that might be applied to normalize emotion dysregulation or strengthen emotional resilience at different life stages in normal aging or disease stages in MCI and AD/ADRD. The R21 Exploratory/Developmental Grant supports exploratory and developmental research projects by providing support for the early and conceptual stages of these projects. The combined budget for direct costs for the two-year project period may not exceed $275K. No more than $200K may be requested in any single year. The scope of the proposed project should determine the project period. The maximum project period is 2 years.

Image-guided Drug Delivery (R01)

National Institutes of Health


Contact: Keyvan Farahani, 240/276-5921, farahank@mail.nih.gov
Solicitation number: PAR-16-044

This Funding Opportunity Announcement (FOA) will support innovative research projects that are focused on image-guided drug delivery (IGDD), including real-time image guidance, monitoring, quantitative in vivo characterizations and validation of delivery and response. It will support research in development of integrated imaging-based systems for delivery of drugs or biologics in cancer and other diseases, quantitative imaging assays of drug delivery, and early intervention. Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum period is 5 years.

Emerging Questions in Cancer Systems Biology (U01)

National Institutes of Health


Contact: Shannon Hughes, 240/276-6224, shannon.hughes@nih.gov
Solicitation number: PAR-16-131

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


Contact: Abraham Bautista, 301/443-9737, bautista@mail.nih.gov

Solicitation number: PA-18-647

NIAAA seeks administrative supplement applications to promote innovation and novel high-risk projects by early established investigators (EEIs). The supplement will allow EEIs to expand and explore new opportunities within the scope of the currently funded R01 grant, and to facilitate the transition from a single, structured research project to a research program. Application budgets are limited to a total of $150K in direct cost per year and must reflect the actual needs of the proposed project. The funding mechanism being used to support this program, administrative supplements, can be used to cover cost increases that are associated with achieving certain new research objectives, as long as the research objectives are within the original scope of the peer reviewed and approved project, or the cost increases are for unanticipated expenses within the original scope of the project. Any cost increases need to result from making modifications to the project that would increase or preserve the overall impact of the project consistent with its originally approved objectives and purposes. The project and budget periods must be within the currently approved project period for the existing parent award. Applicant may request up to two years of support within the currently approved project period for the existing parent award.

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


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

Solicitation number: PAR-17-205

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

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**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.

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**Ceramics (CER)**

National Science Foundation, Education and Human Resources (EHR)


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

Solicitation number: NSF 16-597

This program supports fundamental scientific research in ceramics (e.g., oxides, carbides, nitrides and borides), glass-ceramics, inorganic glasses, ceramic-based composites and inorganic carbon-based materials. Projects should be centered on experiments; inclusion of computational and theory components are encouraged. The objective of the program is to increase fundamental understanding and to develop predictive capabilities for relating synthesis, processing, and microstructure of these materials to their properties and ultimate performance in various environments and applications. Research to enhance or enable the discovery or creation of new ceramic materials is welcome. Development of new experimental techniques or novel approaches to carry out projects is encouraged. Topics supported include basic processes and mechanisms associated with nucleation and growth of thin films; bulk crystal growth; phase transformations and equilibria; morphology; surface modification; corrosion, interfaces and grain boundary structure; and defects. Budgets are typically $110K to $160K per year for each project; smaller budgets are permissible. Budgets in excess of $160K per year may be returned without review.
**Arctic Research Opportunities**

National Science Foundation, Office of Polar Programs


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

Solicitation number: NSF 16-595

The goal of this solicitation is to attract research proposals that advance a fundamental, process, and systems-level understanding of the Arctic's rapidly changing natural environment and social and cultural systems, and, where appropriate, to improve our capacity to project future change. The Arctic Sciences Section supports research focused on the Arctic region and its connectivity with lower latitudes. The scientific scope is aligned with, but not limited to, research challenges outlined in the Interagency Arctic Research Policy Committee five-year plans. The number of awards and average award size and duration are subject to the availability of funds.

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**Geobiology and Low-Temperature Geochemistry**

National Science Foundation, Geosciences (GEO)


Contact: Enriqueta Barrera, 703/292-7780, ebarrera@nsf.gov

Solicitation number: NSF 15-559

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.

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**Sedimentary Geology and Paleobiology (SGP)**

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 17-536

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

The Archaeology Program - Doctoral Dissertation Research Improvement Awards (Arch-DDRI)

Contact: John Yellen, 703/292-8759, jyellen@nsf.gov
Solicitation number: NSF 15-554

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.

Conferences and Workshops in the Mathematical Sciences

Contact: Tomek Bartoszynski, 703/292-4885, tbartosz@nsf.gov
Solicitation number: NSF 16-550

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.

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

Contact: Colleen Fitzgerald, 703-292-4381, cfitzger@nsf.gov
Solicitation number: NSF 16-617

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).

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Ongoing

**Condensed Matter and Materials Theory (CMMT)**

National Science Foundation  
Contact: Daryl Hess, 703/292-4942, dhess@nsf.gov  
Solicitation number: NSF 18-500

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)
National Science Foundation
Contact: Jose Lage, 703/292-4997, jlage@nsf.gov
Solicitation number: NSF 18-525
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)
National Science Foundation
Contact: Ruth Lieberman, 703/292-8529, rlieberm@nsf.gov
Solicitation number: NSF 18-544
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.

Expeditions in Computing
National Science Foundation, Computer and Information Sciences and Engineering (CISE), Cross-Directorate, Office of Cyberinfras
Contact: Mitra Basu, 703/292-8910, mbasu@nsf.gov
Solicitation number: NSF 16-535
The purpose of this FOA is to provide the CISE research and education community with the opportunity to pursue ambitious, fundamental research agendas that promise to define the future of computing and information. Projects supported by the Expeditions program comprise the following characteristics: 1) Foster research climates that nurture creativity and informed risk-taking, and value complementary research and education contributions such that the whole Expeditions project is greater than the sum of its parts; 2) Draw upon well-integrated, diverse teams of investigators from one or more disciplines within computer and information science and engineering, as well as investigators from other fields where necessary; 3) Stimulate effective knowledge transfer; and 4) Demonstrate experimental systems or support shared experimental facilities (including instruments, platforms and/or testbeds), where necessary, to enable discovery and learning. Projects with annual budgets up to $2M for durations of five years will be supported.
US-EU Internet Core & Edge Technologies (ICE-T)

National Science Foundation


Contact: John Brassil, 703/292-8950, jbrassil@nsf.gov

Solicitation number: NSF 18-535

Proposals are solicited for US investigators to conduct foundational and transformative research consistent with the theme of “Internet Core and Edge Technologies” in collaboration with colleagues in the EU. Proposal topics of interest include, but are not limited to, the areas listed below: Software defined eXchanges (SDXs); Network Functions Virtualization (NFV); "Horizontal" Resource Management; User-Centric Interfaces. Each RC award may be up to $300K over three years, and will be made to US organizations, pending availability of funds. Each RI award may be up to $100K over up to 1 year, and will be made to US organizations, pending availability of funds. Each RF award may be up to $50K over up to 1 year, with a fellowship duration of 2-6 months, and will be made to US organizations, pending availability of funds.

As such, NSF’s ICE-T program will support awards in three classes: Research Collaboration (RC) awards support collaborative research partnerships, pairing investigators at US institutions with EC-funded ICT investigators at EU institutions (or EU investigators who are requesting funding separately from the EC), for periods of up to 3 years; Research Collaboration Initiation (RI) awards support the establishment of entirely new collaborations, pairing investigators at US institutions with EC-funded investigators at EU institutions (or EU investigators who are requesting funding separately from the EC), to pursue preliminary research investigations for periods of up to 1 year; Research Fellowships (RF) awards support graduate students at US institutions to travel to EU institutions to engage in in situ research collaborations with EC-funded investigators (or EU investigators who are requesting funding separately from the EC) for fellowship periods of 2-6 months, and an award duration of up to 1 year.

Formal Methods in the Field (FMitF)

National Science Foundation


Contact: Nina Amla, 703/292-7991, namla@nsf.gov

Solicitation number: NSF 18-536

The Formal Methods in the Field (FMitF) program aims to bring together researchers in formal methods with researchers in other areas of computer and information science and engineering to jointly develop rigorous and reproducible methodologies for designing and implementing correct-by-construction systems and applications with provable guarantees. FMitF encourages close collaboration between two groups of researchers. The first group consists of researchers in the area of formal methods, which, for the purposes of this solicitation, is broadly defined as principled approaches based on mathematics and logic, including modeling, specification, design, program analysis, verification, synthesis, and programming language-based approaches. The second group consists of researchers in the “field,” which, for the purposes of this solicitation, is defined as a subset of areas within computer and information science and engineering that currently do not benefit from having established communities already developing and applying formal methods in their research. Initially the program will limit the field to these four areas that stand to directly benefit from a grounding in formal methods: computer networks, cyber-human systems, machine learning, and operating/distributed systems. However other field(s) may emerge as priority areas for the program in future years, subject to the availability of funds. Each proposal must have at least one Principal Investigator (PI) or co-PI with expertise in formal methods and at least one with expertise in one or more of these fields: computer networks, cyber-human systems, machine learning, and operating/distributed systems. Proposals are expected to address the fundamental contributions to both formal methods and the respective field(s), and should include a proof of concept in the field along with a detailed evaluation plan that discusses intended scope of applicability, trade-offs and limitations. All proposals are expected to contain a detailed collaboration plan that clearly highlights and justifies the complementary expertise of the PIs in the designated areas, and describes the mechanisms for continuous bi-directional interaction. Approximately up to $1M per award with durations up to 4 years per award are anticipated, subject to availability of funds.
Computer Science for All (CSforAll:RPP)

National Science Foundation
Contact: Janice Cuny, 703/292-8489, jcuny@nsf.gov
Solicitation number: NSF 18-537

This program aims to provide all U.S. students the opportunity to participate in computer science (CS) and computational thinking (CT) education in their schools at the preK-12 levels. With this solicitation, the National Science Foundation (NSF) focuses on researcher-practitioner partnerships (RPPs) that foster the research and development needed to bring CS and CT to all schools. Specifically, this solicitation aims to provide high school teachers with the preparation, professional development (PD) and ongoing support that they need to teach rigorous computer science courses; preK-8 teachers with the instructional materials and preparation they need to integrate CS and CT into their teaching; and schools and districts the resources needed to define and evaluate multi-grade pathways in CS and CT. A key goal of this program is to provide all U.S. students the opportunity to participate in computer science (CS) and computational thinking (CT) education in their schools at the preK-12 levels. CT refers to the thought processes involved in formulating problems and their solutions in such a way that the solutions can be effectively carried out by an information-processing agent (usually a computer) [1]. CT activities do not require the presence of a computing tool, but involve the requisite reasoning needed to capitalize on the use of computational tools. CS, as used in this solicitation, includes CT but also the broad range of understandings, competencies, and skills needed to apply computation in our digital world. It includes topics of problem specification and representation; algorithm development; software design, programming, and debugging; the Internet and networking; big data; cybersecurity; and application across a wide range of disciplines, including the associated societal impact and ethical considerations. This solicitation focuses on CS and CT instruction, as distinct from the mere use of computers or the use of common computational tools such as word processors or video editing or presentation software. The ability to use such tools is often referred to as computational literacy. This solicitation supports education beyond computational literacy.

Critical Techniques, Technologies and Methodologies for Advancing Foundations and Applications of Big Data Science

National Science Foundation
Contact: Chaitanya Baru, 703/292-4541, cbaru@nsf.gov
Solicitation number: NSF 18-539

The BIGDATA program seeks novel approaches in computer science, statistics, computational science, and mathematics leading towards the further development of the interdisciplinary field of data science. The program also seeks innovative applications in domain science, including social and behavioral sciences, education, physical sciences, and engineering, where data science and the availability of big data are creating new opportunities for research and insights not previously possible. The solicitation invites two categories of proposals: 1) Foundations (BIGDATA: F): those developing or studying fundamental theories, techniques, methodologies, and technologies of broad applicability to big data problems, motivated by specific data challenges and requirements; and 2) Innovative Applications (BIGDATA: IA): those engaged in translational activities that employ new big data techniques, methodologies, and technologies to address and solve problems in specific application domains. Projects in this category must be collaborative, involving researchers from domain disciplines and one or more methodological disciplines, e.g., computer science, statistics, mathematics, simulation and modeling, etc. Proposals are expected to be well motivated by specific big data problems in one or more science and engineering research domains. All proposals are expected to clearly articulate the big data aspect(s) that motivate the research. Innovative Applications proposals must provide clear examples of the impacts of the big data techniques, technologies and methodologies on applications in one or more domains. Projects will typically receive NSF funding in the range of $200K to a maximum of $500K per year, for 3 to 4 years of support.
NSF/VMware Partnership on Edge Computing Data Infrastructure (ECDI)

National Science Foundation

Contact: Darleen Fisher, 703/292-8950, dlfisher@nsf.gov

Solicitation number: NSF 18-540

This solicitation seeks to advance the state of the art in end-to-end networked systems architecture that includes edge infrastructures. The central challenge is to design and develop data-centric edge architectures, programming paradigms, runtime environments, and data sharing frameworks that will enable compelling new applications and fully realize the opportunity of big data in tomorrow's mobile and IoT device environments. Researchers are expected to carefully consider the implications of edge computing's multi-stakeholder context, and the need for security and privacy as first order design and operational considerations. Approximately two awards are anticipated, each up to $3M total and of 3 years in duration, subject to the availability of funds and quality of proposals received.

Smart and Connected Health (SCH)

National Science Foundation

Contact: Wendy Nilsen, 703/292-2568, wnilsen@nsf.gov

Solicitation number: NSF 18-541

The goal of the SCH: Connecting Data, People and Systems program is to accelerate the development and integration of innovative computer and information science and engineering approaches to support the transformation of health and medicine. Approaches that partner technology-based solutions with biomedical and biobehavioral research are supported by multiple agencies of the federal government including the NSF and the NIH. The purpose of this program is to develop next-generation multidisciplinary science that encourages existing and new research communities to focus on breakthrough ideas in a variety of areas of value to health, such as networking, pervasive computing, advanced analytics, sensor integration, privacy and security, modeling of socio-behavioral and cognitive processes and system and process modeling. Effective solutions must satisfy a multitude of constraints arising from clinical/medical needs, barriers to change, heterogeneity of data, semantic mismatch and limitations of current cyberphysical systems and an aging population. Such solutions demand multidisciplinary teams ready to address issues ranging from fundamental science and engineering to medical and public health practice. The SCH program: takes a coordinated approach that balances theory with evidenced-based analysis and systematic advances with revolutionary breakthroughs; seeks cross-disciplinary collaborative research that will lead to new fundamental insights; and encourages empirical validation of new concepts through research prototypes, ranging from specific components to entire systems.

Antarctic Artists and Writers Program (AAW)

National Science Foundation, Office of Polar Programs

Contact: Valentine Kass, 703/292-5095, vkass@nsf.gov

Solicitation number: NSF 16-542

This program supports writing and artistic projects specifically designed to increase understanding and appreciation of the Antarctic and of human activities on the southernmost continent. Program furnishes U.S. Antarctic Program operational support, and round-trip economy air tickets between the United States and the Southern Hemisphere, to artists and writers whose work requires them to be in the Antarctic to complete their proposed project. The program does not provide any funding to participants, including for such items as salaries, materials, completion of the envisioned works, or any other purpose. Instead of money, the award consists of provision, without charge, of U.S. Antarctic Program field resources in areas of Antarctica and/or the Southern Ocean.
Cybersecurity Innovation for Cyberinfrastructure (CICI) - Limited Submission

National Science Foundation


Contact: Kevin Thompson, 703/292-4220, kthompso@nsf.gov

Solicitation number: NSF 18-547

The objective of the Cybersecurity Innovation for Cyberinfrastructure (CICI) program is to develop, deploy and integrate security solutions that benefit the scientific community by ensuring the integrity, resilience and reliability of the end-to-end scientific workflow. CICI seeks three categories of projects: Secure Scientific Cyberinfrastructure: These awards seek to secure the scientific workflow by encouraging novel and trustworthy architectural and design approaches, models and frameworks for the creation of a holistic, integrated security environment that spans the entire scientific CI ecosystem; Collaborative Security Response Center: This single award targets the development of a community resource to provide security monitoring, analysis, expertise, and resources Research & Education (R&E) cyberinfrastructure staff, regardless of physical location or organization; and Research Data Protection: These awards provide solutions that both ensure the provenance of research data and reduce the complexity of protecting research data sets regardless of funding source.

Secure Scientific Cyberinfrastructure awards will be supported at up to $1,000,000 total per award for up to three years. Research Data Protection awards will be supported at up to $1,000,000 total per award for up to three years. A single Collaborative Security Response Center award will be supported at up to $5,000,000 for up to three years.

Future of Work at the Human - Technology Frontier: Advancing Cognitive and Physical Capabilities (FW-HTF)

National Science Foundation


Contact: Jie Yang, 703/292-4768, jyang@nsf.gov

Solicitation number: NSF 18-548

This solicitation focuses on advancing cognitive and physical capabilities in the context of human-technology interactions. The solicitation will support two themes: Theme 1 will focus on Foundations for Augmenting Human Cognition and Theme 2 will focus on Embodied Intelligent Cognitive Assistants. In shaping projects responsive to these two themes, PIs consider the importance of understanding, anticipating, and shaping the larger implications at the individual, institutional, corporate, and national levels, including issues arising from the needs or consequences for training and education. In addition, projects should be framed in terms of their focus on the potential contribution toward (a) transforming the frontiers of science and technology for human performance augmentation and workplace skill acquisition; (b) improving both worker quality of life and employer financial metrics; (c) enhancing the economic and social well-being of the country; and (d) addressing societal needs through research on learning and instruction in the context of augmentation. Projects must include a Collaboration Plan which outlines the way in which the project will leverage and integrate multiple disciplinary perspectives. Small projects may be requested for a total budget ranging from $750K - $1.5M for a period of 3 to 5 years; and Large projects may be requested for a total budget ranging from $1.5M - $3M for a period of 3 to 5 years.

Research Training Groups in the Mathematical Sciences (RTG)

National Science Foundation, Mathematical and Physical Sciences (MPS)


Contact: Andrew Pollington, 703/292-4878, adpollin@nsf.gov

Solicitation number: NSF 14-585

The long-range goal of this program is to strengthen the nation's scientific competitiveness by increasing the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences. The RTG program supports efforts to improve research training by involving undergraduate students, graduate students, postdoctoral associates, and faculty members in structured research groups centered on a common research theme. Research groups supported by RTG must include vertically-integrated activities that span the entire spectrum of educational levels from undergraduates through postdoctoral associates. The maximum award amount is $500K per year for up to five years.
Mentoring Through Critical Transition Points in the Mathematical Sciences (MCTP)

National Science Foundation, Mathematical and Physical Sciences (MPS)


Contact: Varies with research interest
Solicitation number: NSF 11-542

MCTP is part of the Workforce Program. MCTP supports education through research involvement of cohorts of trainees at specific stages of professional development that have been identified as crucial to career success. MCTP is part of the Division of Mathematical Sciences (DMS) Workforce program to increase the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences and in other NSF-supported disciplines. Three to five awards will be made. 3 to 5 awards will be given and they vary with type and size of award.

Planning Grants for Engineering Research Centers (ERC)

National Science Foundation


Contact: Junhong
Solicitation number: NSF 18-549

The ERC program is placing greater emphasis on research that leads to societal impact, including convergent approaches, engaging stakeholder communities, and strengthening team formation, in response to the NASEM study recommendations. The ERC program intends to support planning activities leading to convergent research team formation and capacity-building within the engineering community. This planning grant pilot initiative is designed to foster and facilitate the engineering community’s thinking about how to form convergent research collaborations. To participate in the upcoming ERC competition, one is not required to submit a planning grant proposal nor to receive a planning grant. The planning grant is for one year and the proposed budget for each planning grant should not exceed $100K.

Feed the Future Innovation Lab on Fish (Fish Innovation Lab) - Limited Submission

United States Agency for International Development (USAID)

https://www.grants.gov/web/grants/view-opportunity.html?oppId=301014

Contact: Michele Maximilien, 202/ 567-5073, mmaxilien@usaid.gov
Solicitation number: 7200AA18RFA00006

This request is to identify a University to launch a new Feed the Future Innovation Lab focused on aquaculture and fisheries research and capacity development at the smallholder and food systems levels. The Leader Award will support a US university to act at the Management Entity of the Fish Innovation Lab, who will develop, select, and manage a portfolio of fish research and capacity-development activities. The maximum Leadership Award will be $15M. The portfolio of research and capacity-development activities must fulfill the following two objectives:

1. Generate and make available for transfer improved knowledge, technologies, and practices that unlock the potential of fish production in Feed the Future countries to: a) improve food security and nutrition for the poor; b) sustainably enhance the resilience of smallholder farming households, and c) create and sustain inclusive economic growth.
2. Build partner-country capacity to independently generate and transfer fish-related knowledge, technologies, and practices to beneficiaries after the conclusion of USAID-funded activities.
The USAID Global Health Challenge BAA
United States Agency for International Development (USAID)
https://www.grants.gov/web/grants/view-opportunity.html?oppId=294194

Contact: Deidre Jackson, 202/567-5049
Solicitation number: BAA-GLOBALHEALTH-2017

This Broad Agency Announcement seeks opportunities to co-create, co-design, co-invest, and collaborate in the research, development, piloting, testing, and scaling of innovative, practical and cost-effective interventions to address the most pressing problems in global health. The United States Agency for International Development (USAID) invites organizations and companies to participate with USAID, in cooperation with its partners, to generate novel tools and approaches that accelerate and sustain improved health outcomes in developing countries. Number of awards could vary and may not mirror the number of expressions of interests or invitees to co-creation.

Private/Nonprofit Agencies

Ongoing

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

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

Ongoing

Smith Richardson Foundation Grants
Smith Richardson Foundation
https://www.srf.org/

Contact: Varies with research interest
Solicitation number:
The two principal grant-making programs are: the International Security and Foreign Policy Program, with the objective of assisting the U.S. policy community in developing effective national security strategies and foreign policies, and the Domestic Public Policy Program, which supports projects that will help the public and policy makers understand and address critical challenges facing the United States. Requests for grants of $50K or less are reviewed on an ongoing basis. Requests for grants greater than $50K and for multi-year grant support are made at regular board meetings. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Asia Responsive Grants
Henry Luce Foundation
http://www.hluce.org/asiarespongrant.aspx
Contact: 212/489-7700, hlf1@hluce.org

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

PepsiCo Grants
Pfizer Inc.
http://www.pepsico.com/Purpose/Global-Citizenship/Strategic-Grants
Contact: 914/253-2000, pepsico.foundation@pepsi.com

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

Mellon Foundation Grants
The Andrew W. Mellon Foundation
https://mellon.org/programs/
Contact: Varies with research interest

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

Public Welfare Grants
Public Welfare Foundation
http://www.publicwelfare.org/grants-process/
Contact: 202/965-1800, info@publicwelfare.org

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

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

FSSS Grants-in-Aid Program

The Foundation for the Scientific Study of Sexuality (FSSS)

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

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'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 and Writers
http://www.pw.org/content/funding_readingsworkshops
Contact: 310/481-7195
Solicitation number:
Poets & Writers provides fees to writers who give readings or conduct writing workshops. Each year, our Readings/Workshops program supports hundreds of writers participating in events in large cities and small towns throughout New York and California. Grants for readings or spoken word performances range from $50 to $350. Grants for workshops range from $100 to $200 per session. Applicants are encouraged to apply more than eight weeks in advance of the event. Grants are awarded on a rolling basis. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Ongoing

**Mott Foundation Grants**
The Charles Stewart Mott Foundation

Contact:

Solicitation number:

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

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Ongoing

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

Contact:  212/687-0011, info@delmas.org

Solicitation number:

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

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Ongoing

**Brain and Behavior Research Grants**
Brain & Behavior Research Foundation

Contact: grants@bbrfoundation.org

Solicitation number:

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

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Ongoing

**Documentary Film Program**
Sundance Institute

Contact: dfp@sundance.org

Solicitation number:

The Sundance Documentary Fund provides grants to filmmakers worldwide for projects that display: artful film language, effective storytelling, originality and feasibility, contemporary cultural relevance, and potential to reach and connect with its intended audience. Preference is given to projects that convey clear story structure, higher stakes and contemporary relevance, forward going action or questions, demonstrated access to subjects, and quality use of film craft.
The grants for research projects involve, depending on the type of project, the assumption of costs for personnel, travel, materials and/or other costs. The applicants must be actively involved in the research work of the project. It is possible to apply for financing for your own post at a research establishment. The precondition: you have successfully completed your Ph.D. and afterwards have at least five years professional experience working in an academic field. Project participants can also be financed in the form of a research scholarship. As part of a research project, the costs incurred of visiting (foreign) scholars can also be financed. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

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

Practitioner Bellagio Residency
Rockefeller Foundation
https://www.rockefellerfoundation.org/our-work/bellagio-center/residency-program/
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 the overall master grade awarded must be at least 1.5 or above in Germany (comparable with grade A in other countries). Foreign degrees will be reviewed separately in the Foundation’s office. The final grade achieved in legal exams also will likewise be assessed separately. Duration is 2 years and monthly scholarship award is 1,400 euros.

**Evidence for Action: Investigator-Initiated Research to Build a Culture of Health**

Robert Wood Johnson Foundation


Contact: Erin Hagan, evidenceforaction@ucsf.edu

Solicitation number:

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

Robert Wood Johnson Foundation

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.

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
Solicitation number:
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.
Blue Future
West Marine
[https://www.westmarine.com/BlueFuture/Grants](https://www.westmarine.com/BlueFuture/Grants)
Contact: bluefuture@westmarine.com

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

Transmission Dynamics in Low- and Middle-Income Countries
Bill & Melinda Gates Foundation
Contact: grandchallenges@gatesfoundation.org

Solicitation number:
In this new grand challenge, we solicit proposals to examine the transmission of Campylobacter spp. in communities. Proposals responsive to this call will generate data to understand the sources of Campylobacter infection in children in LMICs, and the dynamics of transmission in LMIC communities of interest. Analyses of these data are expected to address the question of whether a human vaccine for Campylobacter is a necessary and appropriate strategy in spite of the complexities associated with auto-immune responses to Campylobacter antigens. Alternatively, are an avian Campylobacter vaccine, sanitation and hygiene measures, or behavioral interventions that promote the segregation of young children from domestic birds and animals—alone or in combination—effective in preventing Campylobacter infections in children?

Activating Global Citizenship: Building the Next Generation of Global Citizens for the Global Goals
Bill & Melinda Gates Foundation
Contact: grandchallenges@gatesfoundation.org

Solicitation number:
We are seeking innovators to devise and demonstrate ways to positively engage young people (under the age of 30) in Global Citizenship at scale and in depth. This challenge is about testing and implementing concepts and strategies to engage young people in efforts that will reduce inequality related to the first six Global Goals: Goal 1: No poverty Goal 2: Zero hunger Goal 3: Good health and well-being Goal 4: Quality education Goal 5: Gender equality Goal 6: Clean water and sanitation. Investigators are invited to propose innovative and creative solutions that uses new knowledge to positively engage young people in one or more of these goals in both scale and depth. The focus can be local, but to support Global Citizenship for the Global Goals they must also link in a clear way to efforts elsewhere — at a regional, national or global level. The initial phase, which would be funded under this initiative, must demonstrate a path to a more sustainable and scalable program. It must collect quantitative data to inform decision making for follow-on funding. Maximum funding is $100K for the duration of 12-18 months.

Reinventing Teaching and School Leadership: Preparing the Youth with the 21st Century Skills Needed for a Knowl
Bill & Melinda Gates Foundation
Contact: grandchallenges@gatesfoundation.org

Solicitation number:
This FOA is looking for new innovative ideas that transform teaching or school leadership to better prepare children with the 21st century skills they need to succeed in the future. Modern 21st century skills, such as problem solving, leadership, creativity, and adaptability, require a new active, student-centered system for learning. We seek ideas that better prepare teachers and school leaders to drive this new active 21st century system for learning. We are looking for new ideas that may just be in an ideation stage or may have been tested in a small scale already, but require up to US$100K to demonstrate their theory of change and potential for impact. Proposals that are selected to receive an initial funding of US$100K and go on to demonstrate success will receive further funding to scale up and impact lives across the world.
Express Grants - Limited Submission
Santa Barbara Foundation
http://www.sbfoundation.org/nonprofits/community-grants - express

Contact:

Solicitation number:
Express Grants are awards with a short review period aimed at strengthening the organizational capacity and programmatic effectiveness of Santa Barbara County nonprofits. The maximum award for Express Grants is $5,000. Funding for a variety of activities are available in the following four areas:
Organizational development and capacity building
Staff or board training and development
Defined projects
Small capital items and equipment

HD Human Biology Project
Huntington's Disease Society of America
http://hdsa.org/hd-research/hd-human-biology-project/

Contact: grants@hdsa.org

Solicitation number:
Huntington’s Disease Society of America (HDSA) has adopted a patient-centric research strategy to enable the critical HD projects to push the field closer to meeting our goal of identifying effective therapies to slow the progression or onset of HD. HDSA no longer requires that funded research proposals have a formal collaboration with one of HDSA’s 43 Centers of Excellence. Applicants may propose to work with any HD clinic around the world. However, if possible, HDSA encourages applicants to consider the HDSA Centers of Excellence as a potential collaborator for their research. A one or two year grant mechanism to provide support for young scientists to work collaboratively with HD Clinics from around the world. Awards up to $75K/year ($50,000 salary support and $25K research budget)

Program on Race, Ethnicity, and Immigration
Russell Sage Foundation
http://www.russellsage.org/research/funding/race-ethnicity-immigration

Contact: programs@rsage.org

Solicitation number:
This new program seeks investigator-initiated research proposals on the social, economic, and political effects of the changing racial and ethnic composition of the U.S. population, including the transformation of communities and ideas about what it means to be American. We are especially interested in innovative research that examines the roles of race, ethnicity, nativity, and legal status in outcomes for immigrants, U.S.-born racial and ethnic minorities, and native-born whites. Proposals may raise a variety of research questions about any one or more of the three topics encompassed by this program—race, and/or ethnicity, and/or immigration. 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.
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.

6/1/2018 Concept Paper (required)
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, engfnd@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.

6/11/2018 Application

Vilcek Prizes for Creative Promise in Biomedical Science
Vilcek Foundation
http://www.vilcek.org/prizes/creative-promise/biomedical-science.html
Contact: Shinnie Kim, 212/472-2500, creativepromise@vilcek.org
Solicitation number:
The Vilcek Foundation will award three prizes of $50K each to young foreign-born biomedical scientists who demonstrate outstanding early achievement. Eligible work may be in basic, applied, and/or translational biomedical science. The applicant must be directly responsible for the design and execution of the work submitted for consideration.

6/30/2018 Application
9/30/2018 Application
12/31/2018 Application

AWS Cloud Credits for Research
Amazon
https://aws.amazon.com/research-credits/
Contact:
Solicitation number:
The AWS Cloud Credits for Research Program (formerly AWS Research Grants) supports researchers who seek to: 1) Build cloud-hosted publicly available science-as-a-service applications, software, or tools to facilitate their future research and the research of their community. 2) Perform proof of concept or benchmark tests evaluating the efficacy of moving research workloads or open data sets to the cloud. 3) Train a broader community on the usage of cloud for research workloads via workshops or tutorials.
Initiator Award (INI)
American Diabetes Association
https://professional.diabetes.org/meetings/pathway-stop-diabetes%C2%AE
Contact: 800/342-2383, pathway@diabetes.org
Solicitation number:
Pathway seeks to bring new investigators and new perspectives to diabetes research. Supporting scientists with different backgrounds and experience is critical to achieving that objective. Pathway accepts nominations for exceptional investigators with medical and scientific backgrounds who propose innovative basic, clinical, translational, behavioral, epidemiological and health services research relevant to any type of diabetes, diabetes-related disease state or complication. Pathway solicits nominations for candidates in all disciplines as applied to diabetes including medicine, biology, chemistry, computing, physics, mathematics and engineering. In addition, nomination of scientists from diverse backgrounds, including minority groups that are underrepresented in biomedical research, is strongly encouraged. This two-phased award is designed to support the transition of scientists from mentored training to independent research faculty. Eligible applicants must currently be in research training positions (post-doctoral fellow, research fellowship) and have no more than seven years of research training following terminal doctoral degree. Applicants cannot concurrently hold an NIH K99/R00 grant. Candidates must be identified through institutional nomination; applications will be accepted only from individuals with the appropriate institution support. Awards provide two distinct phases of research support: Phase 1 provides up to two years of support for mentored training at a maximum of $100K per year (including 10% indirect costs), Phase 2 provides up to five years of support for independent research at a maximum of $325K per year (including 30% indirect costs). Maximum combined support for Phase 1 and Phase 2 is $1.625M.

Accelerator Award (ACE)
American Diabetes Association
https://professional.diabetes.org/meetings/pathway-stop-diabetes%C2%AE
Contact: 800/342-2383, pathway@diabetes.org
Solicitation number:
This award is designed to support exceptional, independent early-career researchers who have distinguished themselves as promising investigators and are in the beginning stages of establishing successful, sustainable diabetes research programs. Awards are available to early-career diabetes investigators proposing innovative and ambitious diabetes-related research programs. Applicants must hold faculty positions and have demonstrated independent productivity in diabetes research. Applicants may currently hold independent NIH funding (K, U or R awards, including an initial R01/U01) but must not have applied for, or received, an R01/U01 renewal or a second R01/U01 award. Candidates must be identified through institutional nomination; applications will be accepted only from individuals with the appropriate institution support. Awards provide five years of research support at a maximum of $325K per year (including 30% indirect costs), for a total of $1.625M.

Visionary Award (VSN)
American Diabetes Association
https://professional.diabetes.org/meetings/pathway-stop-diabetes%C2%AE
Contact: 800/342-2383, pathway@diabetes.org
Solicitation number:
Awards are designed to support established, experienced investigators with strong records of outstanding productivity in fields outside of diabetes who are interested in applying their considerable skills and expertise to diabetes research. These awards are highly competitive and intended to support particularly innovative and transformational ideas that have the potential to have an exceptional impact in diabetes. Applicants must hold independent faculty positions and have demonstrated significant productivity in their current field of research. Applicants cannot have previously received national grant support (NIH, NIDDK, ADA, JDRF, etc.), as either a PI or Co-PI, in diabetes or diabetes-related research. Awards provide two distinct phases of research support: Phase 1 provides up to three years of support at a maximum of $325K per year (including 30% indirect costs), Phase 2 provides up to two years of support at a maximum of $325K per year (including 30% indirect costs). Phase 2 is contingent upon demonstration of significant contributions to the field of diabetes research in Phase 1. Maximum combined support for Phase 1 and Phase 2 is $1.625M.
Resident Scholars Program

UC MEXUS

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

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

Solicitation number:

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