Campus and Agency News

L’ORÉAL USA FOR WOMEN POSTDOCS IN SCIENCE

The L’Oréal USA For Women in Science fellowship program awards five women postdoctoral scientists annually with grants of $60,000 each for their contributions in Science, Technology, Engineering and Math (STEM) fields and commitment to serving as role models for younger generations. The program is the U.S. component of the L’Oréal-UNESCO For Women in Science International Fellowships. Celebrating its thirteenth year in the U.S., the For Women in Science program has awarded 65 postdoctoral women scientists over $3 million in grants. L’Oréal USA partners with the American Association for the Advancement of Science (AAAS) to manage the program’s application and peer-review process. Each year, the program attracts talented applicants from diverse STEM fields, representing some of the nation’s leading academic institutions and laboratories.

The 2017 L’Oréal USA for Women in Science application period is will open on November 28, 2016 and will close on February 3, 2017.
Application: http://lorealfwis.aaas.org/login/indexA.cfm

2017 UCSB-SBCH COLLABORATIVE RESEARCH SYMPOSIUM

The 3rd annual UCSB-Santa Barbara Cottage Hospital Collaborative Research Symposium will be held Friday, January 13th, 2017, 8am - 4pm. This event brings faculty from UCSB and physicians from Cottage Hospital together to explore potential research collaborations. UCSB faculty, post-docs, and senior graduate students are invited to attend. The agenda will have a speed round of 6-minute research presentations from investigators at both institutions in the morning, and breakout sessions in the afternoon. Seating is limited, so please RSVP using the eventbrite link below. Breakfast and lunch are provided.

RSVP: https://www.eventbrite.com/e/2017-collaborative-research-symposium-tickets-29487894085

To sign up to give a research presentation (faculty only):
Presentations are 6 minutes in length and can cover any topic. Please reserve your presentation time slot using this poll and then email Ann Gianola (agianola@sbch.org) to receive a confirmation: http://doodle.com/poll/nqxbgmtz7ezynyf7

UC CANCER RESEARCH COORDINATING COMMITTEE RFP

The Research Grants Program Office in the UC Office of the President is pleased to issue a Request for Proposals for the Cancer Research Coordinating Committee (CRCC) awards for 2018. The CRCC is a systemwide, faculty-directed cancer research program that provides one-year seed grants for topics in any discipline that address any aspect of cancer, including its origins, prevention and cure. Currently, the CRCC awards grants to:
- New UC faculty to initiate cancer research projects;
- Established investigators in other areas of research to initiate cancer research projects;
- Established cancer investigators to initiate cancer studies in new areas.
Required Letters of Intent Due: Thursday, January 26, 2017
Full Proposals Due: Thursday, April 13, 2017
URL: http://ucop.edu/research-initiatives/programs/crcc/request-for-proposals.html

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: Nominations for Participation on “Ocean Observatories Initiative Facility Board” (OOIFB)
The Division of Ocean Sciences (OCE) of the National Science Foundation (NSF) requests nominations, including self-nominations, for inaugural Members to serve on the newly established “Ocean Observatories Initiative Facility Board” (OOIFB). The OOIFB will provide independent input and guidance regarding the management and operation of the Ocean Observatories Initiative (OOI). All such input and guidance will be communicated both to the OOI Operator and NSF.

Dear Colleague Letter: Potential Integration with the National Aeronautics and Space Administration’s (NASA’s) EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) Program
This letter describes how the Division of Ocean Sciences (OCE) of the National Science Foundation (NSF) will consider research proposals that could potentially integrate and leverage with the planned NASA EXPORTS field program. NASA is planning the EXPORTS program to study carbon export from the surface ocean, with research cruises tentatively scheduled to begin in 2018. More details will be available soon from NASA’s Ocean Biology and Biogeochemistry Program. NASA EXPORTS provides opportunities for NSF funded scientists to participate and engage in the program. OCE is potentially interested in projects that integrate with the NASA field program intellectually and provide substantive advances in the basic scientific understandings of the “biological pump” or any associated biological, chemical, physical, or geological processes.

Dear Colleague Letter: IUCRC Clusters for Grand Challenges, a Collaborative Opportunity for Research to Address Grand Challenges
The National Science Foundation (NSF) invites supplemental requests to establish collaborative research clusters between NSF Industry/University Cooperative Research Centers (IUCRCs). To this end, NSF is interested in supporting two types of activities: Planning Conferences and Collaborative Research Cluster Partnerships. The goal is to enable active IUCRCs to leverage each other’s expertise, research results, resources and existing networks and partnerships to establish a cross-center cluster that will tackle a cross-disciplinary, cross-sector portfolio of research projects that hold the potential to catalyze technology breakthroughs and advance national priorities.

Dear Colleague Letter: Advanced Manufacturing Research to Address Basic Research Enabling Innovation at Manufacturing USA Institutes
The National Science Foundation (NSF) is announcing interest in research proposals to address critical fundamental research needs in advanced manufacturing, especially proposals that will enable innovations in one or more of the Manufacturing USA institutes’ focus areas and leverage the facilities, infrastructure and member companies of an institute. This DCL encourages proposals that address critical fundamental research needs in advanced
manufacturing in one or more of the Manufacturing USA institutes' focus areas.

**TRAINING FOR ADMINISTRATORS IN RESEARCH (STAR)**

The Sponsored Projects Training for Administrators in Research (STAR) program is a comprehensive certificated training program developed by the UCSB Office of Research to meet UCSB's research administration needs. The program's goals are to improve campus understanding of regulations, policies, and procedures; to strengthen internal controls; and to provide staff members with access to key resources and contacts.

The program is designed for employees with duties and responsibilities related to contract and grant administration. Participants are welcome to take one or several courses in areas of particular interest to them—or they may opt to earn a certificate in the STAR program.

The certificate program offers 11 required courses offered from September through May. To earn a certificate, you must take all 11 classes. Staff members who wish to earn a STAR Program Certificate must complete the coursework in one or two years from the date they begin the course series. For more information, including a complete list of courses and registration information, visit [http://www.research.ucsb.edu/spo/contracts-and-grants-liaison-resources/star-class-schedule/](http://www.research.ucsb.edu/spo/contracts-and-grants-liaison-resources/star-class-schedule/).

**Upcoming:**

**Negotiation and Acceptance of Awards and Gifts (3 hours)**

This course focuses on the various actions and issues that arise during the period between the submission of a proposal and the award of a contract or grant, and covers the roles of the key players of the University and the Sponsors, denial and withdrawal of proposals, pre-award costs, revised budgets, requests for approvals to spend (RAS), content of award terms, campus award processing, and an overview of the UCSB award synopsis. Identifying the differences between gifts and grants will also be discussed.

*Offered: Wednesday, January 11, 2017; 9:00am-12noon*

*Instructors: Cara Egan-Williams, Melissa Waver and Michelle Tibbits*

*Location: ECE Conference Room (Harold Frank Hall, Room 4164)*

**Financial Management (2.5 hours)**

This course addresses the financial aspects of administering an extramural award. Financial topics reviewed are direct costing, re-budgeting, cost transfers, overdrafts and balances, close-out procedures and reports, and Personnel Activity Reporting.

*Offered: Wednesday, February 08, 2017; 9:00am-11:30am*

*Instructors: Jim Corkill & Tyler Clark*

*Location: Marine Science Building Auditorium (MSB 1302)*

**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](http://www.research.ucsb.edu/funding/LimitedSubmission.aspx).

Programs with upcoming campus deadlines include:

- NSF Management and Operation of the Ocean Observatories Initiative (OOI)—Campus Notice of Intent 12/15/2016; NSF Letter of Intent (required) 1/18/2017; Full Proposal
4/17/2017
- NSF Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)—Campus Notice of Intent 12/15/2016; NSF Preliminary Proposal 2/14/2017; Full Proposal (by invitation only) 5/16/2017
- Honda Foundation Grants—Campus Notice of Intent 12/15/2016; Application 2/1/2017
- NSF Cultivating Cultures for Ethical STEM (CCE STEM)—Campus Notice of Intent 12/20/2016; Full Proposal 2/15/2017
- NSF Cybersecurity Innovation for Cyberinfrastructure (CICI)—Campus Notice of Intent 1/10/2017; Full Proposal 3/1/2017
- NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)—Campus Notice of Intent 1/12/2017; Full Proposal 3/29/2017
- NSF Software Infrastructure for Sustained Innovation (SSE, SSI, S2I2)—Campus Notice of Intent 1/31/2017 (S2I2); Full S2I2 Proposal 4/11/2017

Programs with open campus spots (please contact funding@research.ucsb.edu if you are interested in submitting to one of these programs):
- NSF Scalable Nanomanufacturing for Integrated Systems (SNM-IS)—Full Proposal 01/13/2017
- NIH Postbaccalaureate Research Education Program (PREP) (R25)—Full Proposal 01/24/2017
Abu-Omar, M., Chemistry & Biochemistry, $408,945, Purdue University, “C3Bio, Catalytic Depolymerization of Lignocellulose and Upgrading to Fuels and Chemicals.”


Buntaine, M.T. (Donald Bren School of Environmental Science & Management), Institute for Social, Behavioral, & Economic Research, $1,480, UC Mexus, “Expanding the Reach of MERL.”

Crouch, C.Q. (Linguistics), Campbell, E.W. (Linguistics), Interdisciplinary Humanities Center, $5,512, Arcadia Fund, “Ninde documentation and orthographic design project.”

Doyle, A.M., Neuroscience Research Institute, $15,000, Santa Barbara Cottage Hospital, “Switch-like Regulation of GABAergic and Glutamatergic Neuronal Differentiation.”

Florsheim, J.L., Earth Research Institute, $25,000, Sonoma County Agricultural Preservation and Open Space District, “Biophysical Approach Toward Riparian Conservation and Floodplain Ecosystem Functionality.”

Grafton, S.T. (Psychological & Brain Sciences), Chmelka, B.F. (Chemical Engineering), Institute for Collaborative Biotechnologies, $1,700,000, Army, “Task 48: Biomarkers of Stress States (BOSS).”


Holden, P.A. (Donald Bren School of Environmental Science & Management), Earth Research Institute, $29,999, Santa Barbara, “Research in New Source Detection.”

Jones, M., National Center for Ecological Analysis and Synthesis, $319,700, National Academy of Sciences, “Open science training enabling synthetic science within the for the Gulf Research Program.”

Kosik, K.S. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, $1,801,936, J. David Gladstone Institutes, “Uptake mechanisms and neuronal excitability in FTD.”

Love, M.S., Marine Science Institute, $12,741, Occidental College, “The current and potential contribution of manmade reef habitats to fisheries resources and protected species recovery in Southern California.”

Marden, J.R., Electrical & Computer Engineering, $476,858, Office of Naval Research (ONR), “Inherent Trade-offs in Multiagent Coordination.”

Michaelsen, J.C. (Geography), Stratton, E., Earth Research Institute (CCBER), $1,000,000, California Ocean Protection Council, “North Campus Open Space Coastal Wetland Restoration.”


Mishra, U.K., Electrical & Computer Engineering, $270,897, Teledyne, “N-Polar GaN mm-wave power amplifiers.”

Myers, M., Marine Science Institute, $4,934, UC Sea Grant College Program, “Sea Grant Extension Program Funds.”

Read de Alaniz, J., Chemistry & Biochemistry, $4,000, Freedom Photonics LLC, “Freedom Photonics Company.”

Rumberger, R.W. (Education), Gevirtz Graduate School of Education, $35,000, Stuart Foundation, “California Dropout Research Project Phase 5.”


Segalman, R., Chemical Engineering, $492,110, Office of Naval Research (ONR), “Understanding Underwater Polymer Surfaces for Soft Fouler Resistance and Hard Fouler Active Prevention.”

Young, A., Physics, $875,000, David And Lucile Packard Foundation, “Classification and control of topological quantum matter in two dimensional materials.”
Young, O.R. (Donald Bren School of Environmental Science & Management), Marine Science Institute, $49,018, National Science Foundation, “Collaborative Research: Belmont Forum: Pan-Arctic Options: Holistic Integration for Arctic Coastal-Marine Sustainability.”

Zok, F.W., Materials, $31,173, IHI Corporation, “Interfacial Sliding Stresses in SiC/SiC Composites.”
Program Announcements
December 2016

Helpful Hints

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

Department of Agriculture (USDA)

12/20/2016 Campus Notice of Intent (required)
2/1/2017 Anticipated proposal deadline

Hispanic-Serving Institutions (HSI) Education Grants Program - Limited Submission

Department of Agriculture (USDA)

http://nifa.usda.gov/funding-opportunity/hispanic-serving-institutions-education-grants-program-hsi

Contact: Irma Lawrence, 202/720-2082, ilawrence@nifa.usda.gov

Solicitation number:

**Please note that due to the short turnaround in past years we are soliciting campus notices of intent before the official solicitation has been released. Information referenced here is from the 2016 RFA and is subject to change. An updated announcement will be sent to campus when the 2017 RFA is available.**

The purpose of NIFA’s HSI Education Grants Program is to support innovative teaching or education applications with potential to impact Hispanic-Serving Institutions to build capacity and then to become models for other institutions that serve underrepresented students, at the regional or national level. HSI education projects should develop human capital relevant to overall program goals for U.S. agriculture. While research and extension activities may be included in a funded HSI Education project, the primary focus must be to improve teaching, enrollment, and graduation rates within a degree-granting program.

NIFA’s mission is to invest and advance agricultural research, education and extension to solve societal challenges. For the purpose of HSI Program, the following NIFA Priority Science Areas are considered as the national priorities:

1) Climate Variability and Change
2) Childhood Obesity and Prevention
3) Food Safety
4) Food Security
5) Sustainable Bioenergy
6) Water for Agriculture

Priority will be given to projects that promote and strengthen the ability of Hispanic-Serving Institutions to carry out education, applied research, and related community development programs, and address educational needs, as determined by each institution, within a broadly defined area of food and agricultural sciences and related disciplines.

This project will only accept Education applications for funding in FY 2016. There are three project types: Strengthening, Standard, and Collaboration. Approximately one-third of the available funds will be used to fund Strengthening projects. The intent of all the projects is to build capacity at participating institutions and to promote collaboration, open communication, the exchange of information, and the development of resources that accelerate education of underrepresented students. Strengthening projects may request up to $250,000 total. Standard projects may request up to $250k per year for up to four years. Collaboration projects may request up to $500K per year for up to four years.
AFRI Foundational: Exploratory Research
National Institute of Food and Agriculture
https://nifa.usda.gov/funding-opportunity/afri-foundational-exploratory-research
Contact: Charlotte Baer, 202/720-5280, cbaer@nifa.usda.gov
Solicitation number:
This program area encourages continuous development of innovative ideas that will position U.S. Agriculture at the global forefront. These developments will lead to quantum leaps in the agricultural fields. They will address the challenges that have never been addressed before in the areas of food security, climate change, environmental quality and natural resources, nutrition, obesity, food safety, strong families and vibrant communities, and thriving youth.

Department of Defense (DOD)
Ongoing
Research Interests of the Air Force of Scientific Research
Air Force Research Laboratory
http://www.grants.gov/web/grants/view-opportunity.html?oppId=276388
Contact: Varies with research interest
Solicitation number: BAA-AFRL-AFOSR-2015-0001
AFOSR plans, coordinates, and executes the Air Force Research Laboratory’s (AFRL) basic research program in response to technical guidance from AFRL and requirements of the Air Force. Additionally, the office fosters, supports, and conducts research within Air Force, university, and industry laboratories; and ensures transition of research results to support U.S. Air Force needs.
The focus of AFOSR is on research areas that offer significant and comprehensive benefits to our national warfighting and peacekeeping capabilities. These areas are organized and managed in two scientific Departments: Engineering and Information Science (RTA) and Physical and Biological Sciences (RTB). Awards average $200-400K per year and may be proposed for up to five years. Proposals may be submitted at any time, though it is recommended to contact the appropriate program manager prior to submission. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Ongoing
AFRL Research Collaboration Program
Department of Defense (DoD)
http://www.grants.gov/custom/viewOppDetails.jsp?oppId=212295
Contact: Angela Campbell, 937/656-7736, Angela.Campbell@wpafb.af.mil
Solicitation number: BAA-RQKM-2013-0005
The objective of the AFRL Research Collaboration program is to enable collaborative research partnerships between AFRL and Academia and Industry in areas including but not limited to Materials and Manufacturing and Aerospace Sensors that engage a diverse pool of domestic businesses that employ scientists and engineers in technical areas required to develop critical warfighting technologies for the nation’s air, space and cyberspace forces through specific AFRL Core Technical Competencies (CTCs). This objective will be met by awarding contracts/assistance instruments that provide a broad range of highly unique evolutionary and revolutionary technology advances in nine competency areas: Structural Materials and Applications, Functional Materials and Applications, Support for Operations, Manufacturing Technology, Radio Frequency (RF) Sensing, Electro-Optical Sensing, Spectrum Warfare, Layered Sensing Exploitation and Enabling Sensor Devices/Components. Individual awards are anticipated to be in the range of $100K to $750K per contract. Each award is not anticipated to exceed 48 months.
Research Interests of the Air Force Office of Scientific Research
Air Force Research Laboratory

[Link](http://www.grants.gov/web/grants/view-opportunity.html?oppid=276388)

Contact: Varies with research interest

Solicitation number: BAA-AFRL-AFOSR-2015-0001

AFOSR solicits white papers and proposals for basic research through this general Broad Agency Announcement (BAA). The focus of AFOSR is on research areas that offer significant and comprehensive benefits to our national warfighting and peacekeeping capabilities. These areas are organized and managed in five scientific Departments: 1) Dynamical Systems and Control (RTA); 2) Quantum and Non-Equilibrium Processes (RTB); 3) Information, Decision and Complex Networks (RTC); 4) Complex Materials and Devices (RTD); and 5) Energy, Power and Propulsion (RTE).

AFRL RD/RV University Cooperative Agreement
Department of Defense (DoD)

[Link](http://www.grants.gov/web/grants/view-opportunity.html?oppid=280237)

Contact:

Solicitation number: BAA-RVKV-2015-0003

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

Insect Allies
Department of Defense (DoD)

[Link](http://www.grants.gov/web/grants/view-opportunity.html?oppid=289830)

Contact:

Solicitation number: HR001117S0002

The Insect Allies program will develop a platform technology for delivering enhanced crop traits within a single growing season by delivering a modified virus to target plants by a mobile insect vector.

U.S. Army Engineer Research and Development Center BAA
U.S. Army Engineer Research and Development Center (ERDC)

[Link](https://www.fbo.gov/index?s=opportunity&mode=form&id=19e9ae39c6ecc9aed31bfddd8be9dd82&tab=core&_cview=0)

Contact: Michael Lee, 601/634-3903, Michael.G.Lee@usace.army.mil

Solicitation number: W912HZ-16-BAA-01

The ERDC is responsible for conducting research in the broad fields of hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, physical/mechanical/chemical properties of snow and other frozen precipitation, infrastructure and environmental issues for installations, computer science, telecommunications management, energy, facilities maintenance, materials and structures, engineering processes, environmental processes, land and heritage conservation, and ecological processes. Those interested in submitting research proposals to ERDC are encouraged to make preliminary inquiries.
Department of Defense (DoD)

1/26/2017

US Army Engineer Research & Development Center - 2016 Broad Agency Announcement

https://www.fbo.gov/index?s=opportunity&mode=form&id=19e9ae39c6ecc9aed31bfddd8be9dd82&tab=core&_cview=0

Contact:

Solicitation number:  W912HZ-16-BAA-01

The U.S. Army Engineer Research and Development Center (ERDC) includes the Coastal and Hydraulics Lab (CHL), the Geotechnical and Structures Lab (GSL), the Reachback Operations Center (UROC), the Environmental Lab (EL) and the Information Technology Lab (ITL) in Vicksburg, Mississippi, the Cold Regions Research and Engineering Lab (CRREL) in Hanover, New Hampshire, the Construction Engineering Research Lab (CERL) in Champaign, Illinois, and the Geospatial Research Laboratory (GRL) in Alexandria, Virginia. The ERDC is responsible for conducting research in the broad fields of hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, physical/mechanical/chemical properties of snow and other frozen precipitation, infrastructure and environmental issues for installations, computer science, telecommunications management, energy, facilities maintenance, materials and structures, engineering processes, environmental processes, land and heritage conservation, and ecological processes. This research is conducted by Government personnel and by contract with educational institutions, non-profit organizations and private industries.

1/31/2017

Department of Homeland Security (DHS)

12/20/2016  Application

Summer Research Team Program

http://www.orau.gov/dhseducation/faculty/index.html

Contact:  DHSed@orau.org

Solicitation number:

This program is to increase and enhance the scientific leadership at Minority Serving Institutions (MSIs) in research areas that support the mission and goals of DHS. This program provides faculty and student research teams with the opportunity to conduct research at the university-based DHS Centers of Excellence (DHS Centers). The SRT Program and DHS Centers are sponsored by the DHS Science and Technology Directorate Office of University Programs. The program seeks to engage faculty, along with undergraduate and graduate students, in research that provides opportunities to: better understand the mission and research needs of DHS, make advances in DHS Research Areas, and strengthen the talent pool of scientists and engineers. Selected participants will conduct collaborative research of mutual interest to the Team, the DHS Center and DHS. Faculty members currently teaching at a MSI and students currently enrolled at a MSI in a discipline, major or concentration directly related to a homeland security science, technology, engineering and mathematics (HS-STEM) Research Area are encouraged to apply. Benefits of the program can be found on the program site at http://www.orau.gov/dhseducation/faculty/benefits.html

2/28/2017  Application

Research and Development in Forensic Science for Criminal Justice Purposes


Contact:  support@grants.gov

Solicitation number:  OMB No. 1121-0329

The U.S. Department of Justice (DOJ), Office of Justice Programs(OJP), National Institute of Justice(NIJ) is seeking applications for funding of basic or applied research and development in forensic science for criminal justice purposes. This program furthers the Department’s emission by sponsoring research to provide objective, independent, evidence-based knowledge and tools to meet the challenges of criminal justice, particularly at the state and local levels. NIJ’s Forensic Science Technology Working Group (TWG) assists in identifying and prioritizing operational needs and requirements of the field. The forensic science needs discussed at the FY 2015 TWG meeting may be found on NIJ.gov and are intended to facilitate proposal development.

Department of Justice (DOJ)

2/28/2017  Application

Research and Development in Forensic Science for Criminal Justice Purposes


Contact:  support@grants.gov

Solicitation number:  OMB No. 1121-0329

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Department of the Interior (DOI)
National Fish Habitat Action Plan

Department of the Interior

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

Contact: varies with research intent

Solicitation number: F16AS00029

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

North American Wetlands Conservation Act

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.

Department of Transportation (DOT)

2/21/2017 Application

Zero Emission Research Opportunity (ZERO)

Department of Transportation

https://www.transit.dot.gov/funding/grants/grant-programs/zero-emission-research-opportunity-zero

Contact: Sean Ricketson, 202/366-6678, ZERO.fta@dot.gov

Solicitation number: FTA-2017-001-TRI

ZERO represents the latest partnership with the public transportation industry to solve challenges, increase efficiency, and reduce the costs and risks of deploying zero-emission vehicles in transit service. ZERO will support the industry as it examines the potential of larger zero-emission fleets. Since 2008, FTA has provided more than $150 million to support the research, development and deployment of cleaner more efficient public transit vehicles. The ongoing Low and No Emission Vehicle Deployment Program has proven the interest of transit agencies to procure and operate highly innovative and efficient models, including battery electric and hydrogen fuel cell buses.

Institute of Peace

Ongoing

Priority Grant Competition

Institute of Peace

http://www.usip.org/grants-fellowships/priority-grant-competition

Contact: Varies with research interest

Solicitation number:

This competition supports nonprofit organizations working in or on Afghanistan, Colombia, Iran, Iraq, Nigeria, Pakistan, and Sudan. The competition supports innovative peacebuilding projects involving research, the identification of promising models and effective practices, the development of practitioner resources and tools, the development and delivery of education, training and dialogue programs, and the production of films, radio programs and other media. Institute gives priority to high-quality projects that are likely to generate findings that are accessible to policymakers and practitioners and that demonstrate promise of having a substantial impact.
ROSES 2016: NuSTAR Guest Observer - Cycle 3

The Nuclear Spectroscopic Telescope Array (NuSTAR) Small Explorer (SMEX) mission is the first orbiting telescope to focus light in the high energy X-ray region of the electromagnetic spectrum (E > 10 keV), with an effective bandpass of 3 – 79 keV. The observatory provides a combined improvement in sensitivity and spatial/spectral resolution by factors of 10 to 100 over previous missions that have operated at these energies. The NuSTAR Guest Observer (GO) Program solicits proposals for basic research relevant to the NuSTAR mission. NASA expects to issue the third Call for Guest Observer (GO) Proposals (Cycle 3) in ROSES no later than September 1, 2016, with proposals due 90 days after its release. Cycle 3 Guest Observations will nominally be carried out during the period June 1, 2017 – May 31, 2018.

Contact: Louis Kaluzienski, 202/358-0365, louis.j.kaluzienski@nasa.gov

Solicitation number: NNH16ZDA001N-NUSTAR

ROSES 2016: Fermi Guest Investigator - Cycle 10

This program solicits proposals for basic research relevant to the Fermi mission. The primary goal of this mission is to perform 20 MeV to >300 GeV gamma-ray measurements over the entire celestial sphere, with sensitivity a factor of 30 or more greater than that obtained by earlier space missions. A secondary goal includes the study of transient gamma-ray sources with energies extending from 8 keV up to 300 GeV. The Fermi GI program is intended to encourage scientific participation by providing funding to carry out investigations using Fermi data, to conduct correlative observations at other wavelengths, to develop data analysis techniques applicable to the Fermi data, and to carry out theoretical investigations in support of Fermi observations. The Fermi GI program also encompasses a number of joint observation program opportunities. Fermi investigators may apply for radio, optical, X-ray, or gamma-ray observing time through joint programs with the National Radio Astronomy Observatory (NRAO), the National Optical Astronomy Observatory (NOAO), Arecibo Observatory, the VERITAS ground-based Cerenkov telescope facility, and the INTERnational Gamma-Ray Astrophysics Laboratory (INTEGRAL). Please refer to Section 1.3.3 for important details. They may also apply for high-end computing resources. The funding level for the Cycle 10 GI program is yet to be determined, and will depend in part on the outcome of the 2016 NASA Senior Review. The current expectation is that ~30-40 Regular proposals with average awards of $60K and generally less than $70K per year, and 2 or 3 Large proposals with average awards of $150K per year and generally less than $200K per year will be selected.

Contact: Keith MacGregor, 202/358-2463, keith.b.macgregor@nasa.gov

Solicitation number: NNH16ZDA001N-FERMI

ROSES 2016: Habitable Worlds

The goal of the program is to use knowledge of the history of the Earth and the life upon it as a guide for determining the processes and conditions that create and maintain habitable environments and to search for ancient and contemporary habitable environments and explore the possibility of extant life beyond the Earth. NASA's Habitable Worlds Program includes elements of the Astrobiology Program, the Mars Exploration Program, the Outer Planets Program (all in the Planetary Science Division) and Exoplanet research in the Astrophysics Division. A common goal of these programs is to identify the characteristics and the distribution of potentially habitable environments in the Solar System and beyond. 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 maximum duration of awards is 4 years.
ROSES 2016: Astrophysics Research and Analysis

National Aeronautics and Space Administration


Contact: Michael Garcia, 202/358-1053, Michael.R.Garcia@nasa.gov

Solicitation number: NNH16ZDA001N-APRA

The program seeks to support research that addresses the best possible (i) state-of-the-art detector technology development for instruments that may be proposed as candidate experiments for future space flight opportunities; (ii) science and/or technology investigations that can be carried out with instruments flown on suborbital sounding rockets, stratospheric balloons, or other platforms; and (iii) supporting technology, laboratory research, and/or (with restrictions) ground-based observations that are directly applicable to space astrophysics missions. To meet these goals, proposals are solicited in the following five broad categories: Suborbital/Suborbital-class Investigations, Detector Development, Supporting Technology, Laboratory Astrophysics, and Ground-Based Observations.

ROSES 2016: Strategic Astrophysics Technology

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={30681ED9-E5B0-000D-2337-0268227F6FE0}

Contact: varies with research intent

Solicitation number: NNH16ZDA001N-SAT

The SAT program was established to support the maturation of key technologies to the point at which they are feasible for implementation in space flight strategic missions. The Astrophysics Division has three main science programs: Exoplanets Exploration (ExEP), Physics of the Cosmos (PCOS), and Cosmic Origins (COR), which cover, respectively, the search for planets outside the Solar System, the origin and evolution of the universe, and the birth of stars and galaxies. These areas of scientific interest are represented within the SAT program through its three elements: Technology Development for Exoplanet Missions (TDEM); Technology Development for Physics of the Cosmos (TPCOS); and Technology Development for the Cosmic Origins (TCOR).

ROSES 2016: Solar System Workings

National Aeronautics and Space Administration

https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={BA231B0B-067C-9D42-D770-848B361FC4CA}

Contact: hq-ssw@mail.nasa.gov

Solicitation number: NNH16ZDA001N-SSW

The program solicits proposals for innovative scientific research related to understanding the atmospheric, climatological, dynamical, geologic, physical, and chemical processes occurring within the Solar System. This program is open to investigations relevant to surfaces and interiors of planetary bodies, planetary atmospheres, rings, orbital dynamics, and exospheres and magnetospheres. The Solar System Workings program values the potential of interdisciplinary efforts to solve key scientific questions. The program also values research in comparative planetology. Research supported by this call may include data synthesis, laboratory studies that examine physical or chemical properties and processes, studies of sample or analog materials of other Solar System bodies, field studies of terrestrial analogs of planetary environments, or theoretical and numerical modeling of physical or chemical processes.

National Archives and Records Administration (NARA)
The National Historical Publications and Records Commission seeks projects that will significantly improve public discovery and use of major historical records collections. All types of historical records are eligible, including documents, photographs, born-digital records, and analog audio and moving images. Projects may: a) Digitize historical records collections, or related collections, held by a single institution and make them freely available online; b) Provide access to born-digital records; c) Create new freely-available virtual collections drawn from historical records held by multiple institutions; c) Create new tools and methods for users to access records.

The NHPRC welcomes collaborative projects, particularly for bringing together related records from multiple institutions. Projects that address significant needs in the field and result in replicable and scalable approaches will be more competitive. A grant is for one to three years and for up to $350k. Cost sharing is required. The applicant’s financial contribution may include both direct and indirect expenses, in-kind contributions, non-Federal third-party contributions, and any income earned directly by the project. Indirect costs must be listed under the applicant’s cost sharing contribution.

**National Endowment for the Humanities (NEH)**

1/11/2017  Application

**Media Projects: Development Grants**

National Endowment for the Humanities


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

Solicitation number:

NEH encourages projects that engage public audiences through multiple formats in the exploration of humanities ideas. Proposed projects might include complementary components to a film, television, or radio project. These components should deepen the audience’s understanding of the subject in a supplementary manner: for example, book/film discussion programs, supplemental educational websites, or museum exhibitions.

1/11/2017  Application

**Media Projects: Production Grants**

National Endowment for the Humanities


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

Solicitation number:

NEH encourages projects that engage public audiences through multiple formats in the exploration of humanities ideas. Proposed projects might include complementary components to a film, television, or radio project. These components should deepen the audience’s understanding of the subject in a supplementary manner: for example, book/film discussion programs, supplemental educational websites, or museum exhibitions.

Production grants support the production and distribution of films, television programs, and radio programs that promise to engage a broad public audience.
Public Scholar Program

The Public Scholar Program aims to encourage scholarship that will be of broad interest and have lasting impact. Such scholarship might present a narrative history, tell the stories of important individuals, analyze significant texts, provide a synthesis of ideas, revive interest in a neglected subject, or examine the latest thinking on a topic. Books supported by this program must be grounded in humanities research and scholarship. They must address significant humanities themes likely to be of broad interest and must be written in a readily accessible style. Making use of primary and/or secondary sources, they should open up important and appealing subjects for a wide audience. The challenge is to make sense of a significant topic in a way that will appeal to general readers.

Applications to write books directed primarily to scholars are not appropriate for this program.

National Institutes of Health (NIH)

Ongoing

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

National Institutes of Health


Contact:

Solicitation number:

The primary goal of the NIMH Career Transition Award for Tenure-Track and Tenured Intramural Investigators (K22) Program (hereafter abbreviated as the NIMH Career Transition K22 Program) is to provide support for career intramural investigators at NIMH who aim to transition from the Division of Intramural Research Programs (DIRP) to an independent research faculty position in the extramural community. Applicants should have a demonstrated record of meritorious research in mental health-related fields.

Ongoing

Research Supplements to Promote Re-Entry into Biomedical and Behavioral Research Careers (Admin Supp)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-15-321

The Office of Research on Women's Health (ORWH) and participating Institutes and Centers (ICs) of the National Institutes of Health (NIH) announce the continuation of the program for administrative supplements to research grants to support individuals with high potential to re-enter an active research career after an interruption for family responsibilities or other qualifying circumstances. The purpose of these supplements is to encourage such individuals to re-enter research careers within the missions of all the program areas of NIH. This program will provide administrative supplements to existing NIH research grants for the purpose of supporting full-time or part-time research by these individuals to update their existing research skills and knowledge. The requested salary and fringe benefits for a re-entry candidate must be in accordance with the salary structure of the grantee institution, consistent with the level of effort. An additional amount up to $10K may be requested for supplies, domestic travel, and publication costs relevant to the proposed research.
Evidence for Action: Investigator-Initiated Research to Build a Culture of Health

The program aims to provide individuals, organizations, communities, policymakers, and researchers with the empirical evidence needed to address the key determinants of health encompassed in the Culture of Health Action Framework. In addition, Evidence for Action will also support efforts to assess outcomes and set priorities for action. It will do this by encouraging and supporting creative, rigorous research on the impact of innovative programs, policies and partnerships on health and well-being, and on novel approaches to measuring health determinants and outcomes.

Contact:

Erin Hagan, evidenceforaction@ucsf.edu


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

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

BRAIN Initiative: Proof of Concept Development of Early Stage Next Generation Human Brain Imaging (R01)

This FOA, in support of the NIH Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, aims to support early stage development of entirely new and novel noninvasive human brain imaging technologies and methods that will lead to transformative advances in our understanding of the human brain. The FOA solicits unusually bold and potentially transformative approaches and supports small scale, proof of concept development based on exceptionally innovative, original and/or unconventional concepts.

Application budgets are limited to $300K in direct costs in any project year.

BRAIN Initiative: Development of Next Generation Human Brain Imaging Tools and Technologies (U01)

This FOA, in support of the NIH Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, aims to support full development of entirely new or next generation noninvasive human brain imaging tools and methods that will lead to transformative advances in our understanding of the human brain. The FOA seeks innovative applications that are ready for full-scale development of breakthrough technologies with the intention of delivering working tools within the timeframe of the BRAIN Initiative (“BRAIN 2025: A Scientific Vision,” http://braininitiative.nih.gov/). This FOA represents the second stage of the tool/technology development effort that started with RFA-MH-14-217 and RFA-MH-15-200.
BRAIN Initiative: Optimization of Transformative Technologies for Large Scale Recording and Modulation in the Neocortex

National Institutes of Health


Contact: Edmund (Ned) Tally Ph.D., 301/496-1917, BRAIN-FOAs@nih.gov

Solicitation number: RFA-NS-17-004

Although invention and proof-of-concept testing of new technologies are a key component of the BRAIN Initiative, to achieve their potential these technologies must also be optimized through feedback from end-users in the context of the intended experimental use. This seeks applications for the optimization of existing and emerging technologies and approaches that have potential to address major challenges associated with recording and manipulating neural activity, at or near cellular resolution, at multiple spatial and temporal scales, in any region and throughout the entire depth of the brain. This FOA is intended for the iterative refinement of emergent technologies and approaches that have already demonstrated their transformative potential through initial proof-of-concept testing, and are appropriate for accelerated development of hardware and software while scaling manufacturing techniques towards sustainable, broad dissemination and user-friendly incorporation into regular neuroscience practice.

Proposed technologies should be compatible with experiments in behaving animals, and should include advancements that enable or reduce major barriers to hypothesis-driven experiments. Technologies may engage diverse types of signaling beyond neuronal electrical activity for large-scale analysis, and may utilize any modality such as optical, electrical, magnetic, acoustic or genetic recording/manipulation. Applications that seek to integrate multiple approaches are encouraged. Applications are expected to integrate appropriate domains of expertise, including where appropriate biological, chemical and physical sciences, engineering, computational modeling and statistical analysis.

Application budgets are not limited but need to reflect the actual needs of the proposed project.

BRAIN Initiative: Clinical Studies to Advance Next-Generation Invasive Devices for Recording and Modulation in the Neocortex

National Institutes of Health


Contact: Felipe Aguel Ph.D., 301/496-1447, BRAIN-FOAs@nih.gov

Solicitation number: RFA-NS-17-006

The purpose of this Funding Opportunity Announcement (FOA) is to encourage investigators to pursue a small clinical study to obtain critical information necessary to advance recording and/or stimulating devices to treat central nervous system disorders and better understand the human brain (e.g., Early Feasibility Study). Clinical studies supported may consist of acute or short-term procedures that are deemed Non-Significant Risk (NSR) by an Institutional Review Board (IRB), or Significant Risk (SR) studies that require an Investigational Device Exemption (IDE) from the FDA, such as chronic implants. The clinical study should provide data to answer key questions about the function or final design of a device. This final device design may require most, if not all, of the non-clinical testing on the path to more advanced clinical trials and market approval. The clinical study is expected to provide information that cannot be practically obtained through additional non-clinical assessments (e.g., bench top or animal studies) due to the novelty of the device or its intended use. Activities supported by this Funding Opportunity include a small clinical study to answer key questions about the function or final design of a device.

Application budgets are not limited but need to reflect the actual needs of the proposed project. Budgets should rarely exceed $2M.
The purpose of this Funding Opportunity Announcement (FOA) is to encourage small business concerns (SBCs) to pursue a small clinical study to obtain critical information necessary to advance recording and/or stimulating devices to treat central nervous system disorders and thereby better understand the human brain (e.g., Early Feasibility Study). Clinical studies supported may consist of acute or short-term procedures that are deemed Non-Significant Risk (NSR) by an Institutional Review Board (IRB), or Significant Risk (SR) studies that require an Investigational Device Exemption (IDE) from the FDA, such as chronic implants. The clinical study should provide data to answer key questions about the function or final design of a device. This final device design may require most, if not all, of the non-clinical testing on the path to more advanced clinical trials and market approval. The clinical study is expected to provide information that cannot be practically obtained through additional non-clinical assessments (e.g., bench top or animal studies) due to the novelty of the device or its intended use. Activities supported by this Funding Opportunity include a small clinical study to answer key questions about the function or final design of a device.

Application budgets are not limited but must reflect the actual needs of the proposed project. Applications should rarely exceed $1.5M in total costs per year for Phase II.
The purpose of this Funding Opportunity Announcement (FOA) is to encourage investigators to pursue translational and clinical studies for recording and/or stimulating devices to treat nervous system disorders and better understand the human brain. The program will utilize a cooperative agreement mechanism to support the submission of an Investigational Device Exemption (IDE) for a Significant Risk (SR) study or obtain Institutional Review Board (IRB) approval for a Non-Significant Risk (NSR) study, and a subsequent small clinical study (e.g., Early Feasibility Study). The small clinical study should provide data to answer key questions about the function or final design of a device. This final device design may require most, if not all, of the non-clinical testing on the path to more advanced clinical trials and market approval. The clinical study is expected to provide information that cannot be practically obtained through additional nonclinical assessments (e.g., bench top or animal studies) due to the novelty of the device or its intended use. Activities supported in this program include implementation of clinical prototype devices, non-clinical safety and efficacy testing, design verification and validation activities, and pursuit of regulatory approval for, and implementation of, a single small clinical study.

As part of the BRAIN InitiativeSM, NIH has initiated a Public-Private Partnership Program (BRAIN PPP) that includes agreements (Memoranda of Understanding, MOU) with a number of device manufacturers willing to make such devices available, including devices and capabilities not yet market approved but appropriate for clinical research. In general it is expected that the devices' existing safety and utility data will be sufficient to enable new IRB NSR or FDA IDE approval without need for significant additional non-clinical data.

Application budgets are not limited but need to reflect the actual needs of the proposed project. Budgets should rarely exceed $2M.
Noise-Induced Synaptopathy in the Human Auditory System (R01)

National Institutes of Health


Contact: Janet Cyr, 301/402-3458, cyrj@nidcd.nih.gov

Solicitation number: RFA-DC-17-002

This FOA seeks applications focused on determining if noise-induced cochlear synaptopathy occurs in humans. Studies may include, but are not limited to, diagnosis/detection and determination of functional consequences of such noise-induced damage. Animal studies could be responsive to this solicitation, but the direct applicability to humans must be clearly delineated. Multi-disciplinary teams are encouraged to apply. Application budgets need to reflect the actual needs of the project and are limited to less than $500K direct costs/year. The maximum project period is 5 years.

Coordinating Center for NICHD Population Dynamics Centers Research Infrastructure Program, FY 2017 (R24)

National Institutes of Health


Contact: Rebecca Clark, 301/496-1174, rclark@mail.nih.gov

Solicitation number: RFA-HD-17-022

The purpose of this funding announcement is to support a coordinating center for the NICHD Population Dynamics Centers Research Infrastructure Programs.

Application budgets may not exceed $120K direct costs annually.

BRAIN Initiative: Research on the Ethical Implications of Advancements in Neurotechnology and Brain Science (R0)

National Institutes of Health


Contact: Jay Churchill, 301/443-3621, churchillj@mail.nih.gov

Solicitation number: RFA-MH-17-260

This funding opportunity announcement (FOA), in support of the NIH Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, is one of several FOAs aimed at supporting transformative discoveries that will lead to breakthroughs in understanding human brain function. Guided by the long-term scientific plan, "BRAIN 2025: A Scientific Vision," this FOA specifically seeks to support efforts addressing core ethical issues associated with research focused on the human brain and resulting from emerging technologies and advancements in research and development supported by the BRAIN Initiative. The hope is that efforts supported under this FOA might be both complimentary and integrative with the transformative, breakthrough discoveries being supported through the BRAIN Initiative.

Application budgets are limited to $300K in direct costs in any project year, and need to reflect the actual needs of the proposed project.

Exosomes: From Biogenesis and Secretion to the Early Pathogenesis of Alzheimer's Disease (R01)

National Institutes of Health


Contact: J. Austin Yang, 301/496-9350, yangj13@mail.nih.gov

Solicitation number: RFA-AG-17-051

This Funding Opportunity Announcement (FOA) invites innovative research focused on understanding the role of exosome biogenesis and secretion in modulating and propagation of early pathogenesis in sporadic and late-onset Alzheimer’s disease (AD). Specifically, this FOA encourages collaborative approaches designed to identify and characterize the regulation of molecular machines that are responsible for exosome biogenesis and the secretion of exosomal cargo molecules in AD.

Application budgets are not limited but need to reflect the actual needs of the proposed project.
Kidney Precision Medicine Project - Technology Development and Validation (R43/R44)

National Institutes of Health

Contact: Daniel Gossett Ph.D., 301/594-7723, daniel.gossett@nih.gov
Solicitation number: PA-16-452

The purpose of this Funding Opportunity Announcement (FOA) is to encourage small businesses to address the technological needs of the Kidney Precision Medicine Project (KPMP). The KPMP will obtain and evaluate kidney biopsies from participants with acute kidney injury (AKI) and chronic kidney disease (CKD), create a kidney tissue atlas, define disease subgroups, and identify critical cells, pathways and targets for novel therapies. Proposed technologies are expected to improve the safety of the human kidney biopsy or enhance interrogation of human kidney tissue, thus ensuring that the kidney biopsy yields useful research or clinical information.

According to statutory guidelines, total funding support (direct costs, indirect costs, fee) normally may not exceed $150,000 for Phase I awards and $1,000,000 for Phase II awards.

Development and/or Validation of Devices or Electronic Systems to Monitor or Enhance Mind and Body Interventions

National Institutes of Health

Contact: Wen Chen, 301/451-3989, chenw@mail.nih.gov
Solicitation number: PAS-17-022

This Funding Opportunity Announcement (FOA) supports Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) that will develop and/or validate devices or electronic systems that can: 1) monitor biologically- or behaviorally-based processes applicable to mind and body interventions or 2) be used to assist in optimizing the practice or increasing the efficacy of mind and body interventions. The applications should: 1) lead to the development of new technologies, 2) adapt existing innovative technologies, devices and/or electronic systems, 3) repurpose existing devices and electronic systems, or 4) conduct testing of single or combined components of an integrated, long term, automated, wearable monitoring, stimulation device or electronic system in order to monitor or enhance the mechanistic processes or functional outcomes of mind and body interventions. For the purposes of this FOA, mind and body interventions are defined as non-pharmacological approaches that include mind/brain focused interventions (e.g., meditation, hypnosis), body-based approaches (e.g., acupuncture, massage, spinal manipulation/mobilization), or combined mind and body meditative movement approaches (e.g., yoga, tai-chi, qigong).

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

National Institutes of Health

Contact: Yih-Woei Fridell, 301/496-7847, yih-woei.fridell@nih.gov
Solicitation number: PAR-17-031

This FOA encourages innovative experimental approaches to explore the molecular and cellular bases for age-related change in metabolism that impact the development of Alzheimer’s disease (AD). Application budgets are not limited but need to reflect the actual needs of the proposed project.
Selective Cell and Network Vulnerability in Aging and Alzheimer’s Disease (R01)

National Institutes of Health


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

Solicitation number: PAR-17-047

The goal of this FOA is to define and characterize neural cell populations, neural circuits, and brain networks and regions that are vulnerable to brain aging and Alzheimer’s disease (AD). Understanding mechanisms underlying selective vulnerability from cells to networks in AD is critical to fully define the disease process and to develop effective therapies.

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

National Institutes of Health


Contact:

Solicitation number: PAR-15-328

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

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

1/10/2017 Letter of Intent
2/10/2017 Application

Understanding the Effects of ApoE2 on the Interaction between Aging and Alzheimer’s Disease (R01)

National Institutes of Health


Contact: Nalini Raghavachari, 301/496-6942, nraghavachari@mail.nih.gov
Solicitation number: RFA-AG-17-056

This FOA invites applications on descriptive, basic and translational studies of APOE2 to delineate the functional effects of ApoE2 on healthy aging of the brain and other tissues. The primary focus is on the “APOE2–Aging–AD” relationship and the mechanistic effects of the protective variant on aging and potential interaction/cross talk between tissues in the aging process and AD. These studies are expected to generate new mechanistic insights that involve brain and/or other organs and assist in the identification of potential prognostic and diagnostic markers and therapeutic targets for AD and other age-related cognitive disorders. Eventually, the findings from these studies could lead to translational research opportunities not only to prevent or delay the onset of AD, but also to protect against multiple age-related conditions.

Application budgets are limited to a maximum of $300K per year in direct costs.
Role of Peripheral Proteostasis on Brain Aging and on Alzheimer’s Disease (R01)

National Institutes of Health


Contact: Jose Velazquez, 301/496-6428, jvelazqu@mail.nih.gov

Solicitation number: RFA-AG-17-050

This FOA is soliciting research projects that would advance biomedical research on the role of peripheral proteostasis on brain structure and function during aging and in Alzheimer’s disease, facilitating the identification of molecular and cellular markers of normal brain aging and brain aging during pathological conditions.

Application budgets are not limited but need to reflect the actual needs of the proposed project.

Minor Use Minor Species Development of Drugs; Research Project Grant (R01)

National Institutes of Health


Contact: Stuart Jeffrey, 240/402-0568, stuart.jeffrey@fda.hhs.gov

Solicitation number: RFA-FD-15-004

This FOA is issued by the Food and Drug Administration (FDA), Center for Veterinary Medicine (CVM), and solicits Research Project (R01) grant applications from institutions or organizations that propose to develop, or support the development of new animal drugs intended for minor use in major species or intended for use in minor species. The maximum award is $150K per year for up to three years.

NHLBI Outstanding Investigator Award (OIA) (R35)

National Institutes of Health


Contact: Meena Hiremath, 301/443-8765, NHLBI_R35@mail.nih.gov

Solicitation number: RFA-HL-16-024

The purpose of this award is to promote scientific productivity and innovation by providing long-term support and increased flexibility to experienced Program Directors (PDs)/Principal Investigators (PDs/PIs) who are currently PDs/PIs on at least two NHLBI R01-equivalent awards and whose outstanding record of research demonstrate their ability to make major contributions to heart, lung, blood and sleep (HLBS) research. The NHLBI OIA is intended to support a research program, rather than a research project, by providing the primary and most likely sole source of NHLBI funding on individual grant awards. The NHLBI OIA will support the research program of NHLBI-funded investigators for up to seven years. The NHLBI OIA will provide investigators increased freedom to conduct research that breaks new ground or extends previous discoveries in new directions. It will also allow PDs/PIs to take greater risks and to pursue research that requires a longer timeframe. Research supported by the NHLBI OIA should be within the scope of the NHLBI mission (http://www.nhlbi.nih.gov/about/org/mission), sleep disorders closely-coupled to HLB outcomes, or basic sleep and circadian regulation. Applications may request up to $600k direct costs per year.

This FOA runs in parallel with a FOA of identical scope, RFA-HL-16-025, that utilizes the R35 Outstanding Investigator Award mechanism.
Pre-application: Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs (OT2)

The purpose of this FOA is to invite pre-applications from applicants who have an interest in ultimately submitting an application to "Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs (OT2)" (RFA-RM-15-018). The OT1 SPARC OT pre-application is the required first step in the application process for the companion OT2 FOA (RFA-RM-15-018). Potential applicants should read both FOAs.

Applicants whose OT1 pre-applications are found to be meritorious and programmatically relevant will be invited to submit a full application to the OT2 "Stimulating Peripheral Activity to Relieve Conditions (SPARC): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs" FOA (RFA-RM-15-018). There will be substantial interaction with NIH Program Staff leading to the development of programmatic and budget elements for an acceptable OT2 application. OT2 applications must include a copy of the Invitation to Submit from the SPARC program as a requirement for submission. The Invitation to Submit an OT2 application is not an indication of any award.

Cardiovascular and Pulmonary Research on E-Cigarettes (R01)

The purpose of this funding opportunity announcement (FOA) is to stimulate research on non-cancer cardiovascular and pulmonary physiologic and health effects of electronic cigarette (e-cigarette) exposure. This FOA invites applications addressing the effects of e-cigarettes on the cardiovascular and pulmonary systems, alone or in combination. Studies involving clinical populations, animal models and/or cell preparations would all be considered responsive. Research may examine the effects of the whole e-cigarette aerosol or of individual components or constituents. Research may also examine where aerosols, components, or constituents deposit in the airways and resulting heart and/or lung consequences.

Application budgets should reflect the actual needs of the proposed project. Application budgets may not exceed $300K direct costs per year.

Nicotinic Immune Modulation in the Presence of HIV-1 Infection (R01)

The FOA encourages the submission of research project applications to determine nicotine’s modulatory effects on peripheral and central immune system functions in the presence of HIV-1 infection. Specifically, NIDA is particularly interested in projects exploring the ability of nicotine to produce anti-inflammatory and protective effects, and the translational potential of the new knowledge in attenuating HIV-induced pathologies and HIV-associated CNS complications such as neurological/cognitive disorders.

Application budgets are not limited but need to reflect the actual needs of the proposed project.
**Contraception Research Centers Program (U54)**

National Institutes of Health

https://grants.nih.gov/grants/guide/rfa-files/RFA-HD-17-013.html - Section II. Award 1

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

Solicitation number: RFA-HD-17-013

The purpose of this announcement is to support and facilitate multidisciplinary approaches to the development of new and/or improved contraceptive methods for both men and women. This FOA expands the scope of the former program by calling for Centers to inform contraceptive development and improve contraceptive use by integrating the biomedical research and development with behavioral and social science research, e.g., demography and other population sciences, psychology, economics, and sociology. These Centers also will serve as a national resource for development of early stage investigators electing to pursue careers in contraceptive research.

A Center should propose a budget that reflects the actual needs of the proposed projects and costs; such a budget should not exceed $1.5 million per year in direct costs, excluding third party F&A.

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**Powering Research through Innovative Methods for mixtures in Epidemiology (PRIME) (R01)**

National Institutes of Health


Contact: Bonnie Joubert, 919/541-7667, joubertbr@niehs.nih.gov

Solicitation number: RFA-ES-17-001

The purpose of this Funding Opportunity Announcement (FOA) is to stimulate the development of innovative statistical, data science, or other quantitative approaches to studying the health effects of complex chemical mixtures in environmental epidemiology.

Application budgets can be up to $350K per year in direct costs but need to reflect the actual needs of the proposed project.

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1/18/2017 Application

1/17/2017 Powering Research through Innovative Methods for mixtures in Epidemiology (PRIME) (R01)

1/22/2017 Letter of Intent

2/22/2017 Application
Postbaccalaureate Research Education Program (PREP) (R25) - Limited Submission

National Institutes of Health


Contact: Michael Bender, 301-594-0943, mbender@nigms.nih.gov
Solicitation number: PAR-17-051

PAR-17-051

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this NIGMS R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce.

To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on Research Experiences and Courses for Skills Development. Applications are encouraged from research-intensive institutions that propose to equip recent baccalaureate science graduates from diverse backgrounds underrepresented in biomedical sciences with the necessary knowledge and skills to pursue Ph.D. degrees in these fields. The program provides support for extensive research experiences and well-designed courses for skills development aimed at preparing individuals from underrepresented backgrounds to complete doctoral degrees. The total direct costs for each award are limited to $400,000 annually.

1/24/2017  Full Application

Initiative to Maximize Research Education

National Institutes of Health


Contact:
Solicitation number: PAR-16-090

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this NHGRI R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. by supporting short, advanced level courses that are intended to disseminate new techniques, methods, and analyses related to the mission of the NHGRI. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on Courses for Skills Development

1/25/2017  Application
5/25/2017  Application
9/26/2017  Application
1/25/2018  Application

Support of NIGMS Program Project Grants (P01)

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


Contact: Catherine Lewis, 301/594-0828, lewisc@nigms.nih.gov
Solicitation number: PAR-16-433

This FOA encourages program project grant applications that propose to conduct research which aims to solve a significant biological problem, important for the mission of NIGMS, through a collaborative approach involving outstanding scientists who might not otherwise collaborate. The program project grant mechanism is designed to support research in which the funding of several interdependent projects as a group offers significant scientific advantages over support of these same projects as individual regular research grants. An upper limit of $6.5M direct costs for the entire five-year project period may be requested.
The National Institutes of Health (NIH) will award Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32) to eligible, domestic institutions to enhance predoctoral and postdoctoral research training, including short-term research training, and help ensure that a diverse and highly trained workforce is available to meet the needs of the Nation’s biomedical, behavioral, and clinical research agenda. Research training programs will incorporate didactic, research, and career development elements to prepare individuals for careers that will have a significant impact on the health-related research needs of the Nation. Programs proposing only short-term research training should not apply to this announcement, but rather to the Kirschstein-NRSA Short-Term Institutional Research Training Grant Program (T35) exclusively reserved for predoctoral, short-term research training (see PA-16-151).

**Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32)**

National Institutes of Health


Contact:

Solicitation number: PA-16-152

The National Institutes of Health (NIH) will award Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32) to eligible, domestic institutions to enhance predoctoral and postdoctoral research training, including short-term research training, and help ensure that a diverse and highly trained workforce is available to meet the needs of the Nation’s biomedical, behavioral, and clinical research agenda. Research training programs will incorporate didactic, research, and career development elements to prepare individuals for careers that will have a significant impact on the health-related research needs of the Nation. Programs proposing only short-term research training should not apply to this announcement, but rather to the Kirschstein-NRSA Short-Term Institutional Research Training Grant Program (T35) exclusively reserved for predoctoral, short-term research training (see PA-16-151).

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

National Institutes of Health


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

Solicitation number: PAR-15-139

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

**Alcohol Education Project Grants (R25)**

National Institutes of Health


Contact: Peggy Murray, 301/443-2594, pmurray@mail.nih.gov

Solicitation number: PAR-15-054

The program supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers. The overarching goals of the NIH R25 program are to: (1) complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. (2) enhance the diversity of the biomedical, behavioral and clinical research workforce; (3) help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral and clinical sciences; and (4) foster a better understanding of biomedical, behavioral and clinical research and its implications. The overarching goal of this NIAAA R25 program is to support educational activities that foster a better understanding of biomedical, behavioral and clinical research and its implications in alcohol abuse and alcoholism and HIV/AIDS. Direct costs are limited to $250,000 per year. Indirect costs will be paid at 8% of modified direct costs. The maximum project period is 2 years.
Large Health Services Research Demonstration and Dissemination Projects for Prevention of Healthcare-Associated Infections

National Institutes of Health

Contact: James Cleeman, 301/427-1330, james.cleeman@ahrq.hhs.gov
Solicitation number: PA-17-007

This FOA issued by AHRQ invites grant applications for funding to conduct Large Health Services Research Demonstration and Dissemination Projects (R18) that propose to address strategies and approaches for prevention and reduction of Healthcare-Associated Infections (HAIs). The FOA describes the broad areas of HAI research for which funds are available to support Health Services Research Demonstration and Dissemination Projects.

The total costs awarded to a grant under this FOA will not exceed $500K in any given year for a period of up to 5 years.

National Cancer Institute Youth Enjoy Science Research Education Program (R25)

National Institutes of Health

Contact: Alison Lin, 240/276-6177, linaj@mail.nih.gov
Solicitation number: PAR-17-059

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this National Cancer Institute (NCI) R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce.

To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Research Experiences, Curriculum or Methods Development and Outreach. The NCI’s mission is to conduct and support research, training, health information dissemination, and other programs with respect to cancer. This funding opportunity seeks to facilitate the education of students from diverse backgrounds underrepresented in biomedical research who will become knowledgeable about cancer, and available to focus on cancer later in their careers. With the aim of enhancing the pool of individuals from underrepresented backgrounds interested in pursuing a career in biomedical research via early intervention strategies, the NCI Youth Enjoy Science (YES) Program will support efforts to create and maintain an institutional program to engage grades 6-12 and/or undergraduate students from underrepresented populations in cutting edge cancer research experiences. The proposed institutional programs may also provide research experiences for the grade 6-12 teachers and undergraduate faculty members who serve underrepresented student populations. The specific goals are to inspire interest in biomedical sciences, help envision research as a career path, and strengthen practical research and career skills. In alignment with these goals, institutions may develop unique programs that capitalize on their research strengths and are responsive to their target populations.
Revision Applications for Validation of Biomarker Assays Developed Through NIH-Supported Research Grants (R01)

National Institutes of Health


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

Solicitation number:  PAR-17-003

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

Application budgets are limited to $150,000 in direct costs in any single year.

Predictive Multiscale Models for Biomedical, Biological, Behavioral, Environmental and Clinical Research (U01)

National Institutes of Health


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

Solicitation number:  PAR-15-085

The goal of this interagency funding opportunity announcement (FOA) is to support the development of multiscale models to accelerate biological, biomedical, behavioral, environmental and clinical research. The NIH, ARO, DOE, FDA, NASA, NSF, and ONR recognize that in order to efficiently and effectively address the challenges of understanding multiscale biological and behavioral systems, researchers will need predictive, computational models that encompass multiple biological and behavioral scales. This FOA supports the development of non-standard modeling methods and experimental approaches to facilitate multiscale modeling, and active participation in community-driven activities through the Multiscale Modeling (MSM) Consortium, www.imagwiki.nibib.nih.gov. Budgets are expected to range from $200k to $400k in Total Direct Costs each year, reflecting the actual needs of the proposed project.

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

National Institutes of Health


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

Solicitation number:  PA-17-055

The National Institute of Environmental Health Sciences hereby notifies Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) with R01, R21, R15, R35, R37, or P01 awards that funds are available for administrative supplements to support summer research experiences in environmental health science for high school students, college undergraduates, master’s degree candidates, medical students, secondary school science teachers, and science professors from R15/AREA grant eligible institutions. Administrative supplements must support work within the scope of the original project.
Summer Research Experiences for Students and Science Teachers (Admin Supp)

The National Institute of Environmental Health Sciences hereby notifies Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) with R01, R21, R15, R35, R37, or P01 awards that funds are available for administrative supplements to support summer research experiences in environmental health science for high school students, college undergraduates, master’s degree candidates, medical students, secondary school science teachers, and science professors from R15/AREA grant eligible institutions. Administrative supplements must support work within the scope of the original project.

Contact: Astrid Haugen, 919/541-4415, Haugen@niehs.nih.gov
Solicitation number: PA-17-055

Short-term Measurements of Physical Resilience as a Predictor of Healthspan in Mice (R01)

This Funding Opportunity Announcement (FOA) invites applications to develop short-term tests that provide a comprehensive measure of resilience in animal models used in aging studies. Resilience is defined here as the ability of an organism to respond to physical challenges or stresses and return to homeostasis. Increased resilience is believed to correlate with longevity and a longer health-span, but appropriate methodology to test this comprehensively in animal models is currently lacking. The purpose of this FOA is to develop appropriate tests to measure resilience to physical, molecular and cellular stresses, as a prelude to being able to predict, using a panel of standardized short-term tests in young or middle-aged animals, whether interventions might lead to improved future health outcomes and longevity.

Application budgets should be limited to a maximum of $250K in direct costs per year.

Partnerships for Development of Vaccines to Prevent Mycobacterium tuberculosis Infection and/or Tuberculosis Disease (R01)

The purpose of this Funding Opportunity Announcement (FOA) is to solicit research applications for milestone-driven projects focused on establishing proof-of-concept for and/or preclinical development of lead candidate vaccines targeting infection with Mycobacterium tuberculosis (Mtb) and/or tuberculosis disease (TB).

Budgets for direct costs of up to $750K per year may be requested.

Enhancing the Target and Biomarker Discovery Efforts of the AMP-AD and M2OVE-AD Consortia (R01)

This funding opportunity invites applications that would enhance the goals and deliverables of the AMP-AD Target Discovery and Preclinical Validation and M2OVE Consortia by maximizing the usability of the data and analytical results generated by these programs, seizing opportunities for additional target and biomarker discovery, and accelerating the validation of the novel targets and biomarkers being discovered within the AMP-AD and M2OVE-AD Consortia.
Enhancing the Target and Biomarker Discovery Efforts of the AMP-AD and M2OVE-AD Consortia (R01)

National Institutes of Health


Contact: Suzana Petanceska, 301/496-9350, petanceskas@nia.nih.gov

Solicitation number: RFA-AG-17-054

This funding opportunity invites applications that would enhance the goals and deliverables of the AMP-AD Target Discovery and Preclinical Validation and M2OVE Consortia by maximizing the usability of the data and analytical results generated by these programs, seizing opportunities for additional target and biomarker discovery, and accelerating the validation of the novel targets and biomarkers being discovered within the AMP-AD and M2OVE-AD Consortia.

Neuroimmune Mechanisms of Alcohol Related Disorders (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Changhai Cui, 301/443-1678, changhai.cui@nih.gov

Solicitation number: PA-14-139

This FOA encourages proposals to study the neuroimmune mechanisms of alcohol related disorders. Studies supported by this FOA will provide fundamental insights of neuroimmune mechanisms underlying brain functional and behavioral changes induced by alcohol. This FOA runs in parallel with PA-14-138, which solicits applications under the R21 Exploratory/Developmental Grant mechanism.

Neurobiology of Migraine (R01)

National Institutes of Health, Cross-Institute


Contact: Linda Porter, 301/451-4460, porter@ninds.nih.gov

Solicitation number: PA-14-068

This FOA is issued by the National Institute of Neurological Disorders and Stroke (NINDS) in conjunction with the NIH Pain Consortium. It solicits R01 grant applications from institutions/organizations to perform innovative research that will elucidate the mechanisms underlying migraine, expand our current knowledge of the role of genetic, physiological, biopsychosocial, and environmental influences in migraine susceptibility and progression, and explore new therapeutic targets and therapies for acute migraine management and longer term prevention. This FOA will utilize the NIH Research Project Grant (R01) award mechanism and runs in parallel with a FOA of identical scientific scope, PA-14-069, that encourages applications under the NIH Exploratory/Developmental (R21) mechanism. Applicants may request support for up to five years.

Spatial Uncertainty Data, Modeling, and Communication (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PA-15-010

The purpose of this FOA is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. This FOA runs in parallel with FOAs of identical scientific scope, PA-15-009, that encourages applications under the R21 mechanism, and PA-15-011, that encourages applications under the R03 mechanism.
Drug Abuse Prevention Intervention Research (R01)

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


Contact: Harold Perl, 301/443-6504, hperl@mail.nih.gov

Solicitation number: PA-15-082

The purpose of this FOA is to encourage Research Project Grant (R01) applications that propose to advance the science of drug abuse and drug-related HIV prevention through 1) the development of novel prevention approaches, 2) the testing of novel and adapted prevention intervention approaches, 3) the elucidation of processes associated with the selection, adoption, adaptation, implementation, sustainability, and financing of empirically validated interventions, and 4) the development of new methodologies suitable for the design and analysis of prevention research studies. The maximum project period is five years. This FOA runs in parallel with two FOAs of identical scientific scope: PA-15-080, which utilizes the R21 Exploratory/Developmental Grant mechanism, and PA-15-081, which utilizes the R03 Small Grant Program mechanism.

Investigations on Primary Immunodeficiency Diseases (R01)

National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)


Contact: David Johnson, 240/627-3499, drjohnson@niaid.nih.gov

Solicitation number: PAR-15-130

This FOA is intended to support innovative investigations in primary immunodeficiency diseases. Of particular interest are the detection of primary immunodeficiency diseases, the identification of the molecular basis of these diseases, and the design and pre-clinical development of innovative therapies for these diseases. Studies using samples obtained from humans and studies on animal models are encouraged. Investigators who have not received independent NIH funding in this field are encouraged to apply. The maximum project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-13-314, which utilizes the R03 Small Grant mechanism, and PA-13-315, which utilizes the R21 Exploratory/Developmental Grant mechanism.

International Research Collaboration on Drug Abuse and Addiction Research (R01)

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


Contact: Steven Gust, 301/443-6480, ipdirector@nida.nih.gov

Solicitation number: PA-15-142

This FOA encourages collaborative research applications on drug abuse and addiction that take advantage of special opportunities that exist outside the U.S. Special opportunities include access to unusual talent, resources, populations, or environmental conditions in other countries that will speed scientific discovery. This year the scientific priorities include: linkages between HIV/AIDS and drug abuse, and prevention, initiation, and treatment of nicotine and tobacco use (especially among vulnerable populations such as children, adolescents, pregnant women, and those with co-morbid disorders). The maximum project period is 5 years.
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. The maximum project period is five years.

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

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Varies with research interest

Solicitation number: PA-15-251

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

Lymphatics in Health and Disease in the Digestive, Kidney, and Urinary Tract (R01)

National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)


Contact: Jill Carrington, 301/402-6071, curringj@mail.nih.gov

Solicitation number: PAR-15-306

This FOA is to encourage applications for research into aspects of lymphatic vessel physiology, development and pathophysiology related to health and diseases of the digestive system, kidney, and urinary tract organs. However, studies with the major focus on immune mechanisms are not encouraged. Studies to understand the factors that control local lymphatic vessel functional anatomy and physiology and development during health or disease in these organs/systems, and the mechanisms by which alterations of lymphatic vessel function affect organ function, are of interest. Application budgets are limited to $250K in direct costs per year exclusive of any consortium F&A costs.
Engineering Next-Generation Human Nervous System Microphysiological Systems (R01)

National Institutes of Health


Contact: David M. Panchision, 301/443-5288, panchisiond@mail.nih.gov

Solicitation number: PAR-16-398

This Funding Opportunity Announcement (FOA) encourages research grant applications directed toward developing next-generation human cell-derived microphysiological systems (MPS) with improved fidelity to complex human brain, spinal, peripheral nervous system and/or sensory end organ circuit physiology in vivo, which will ultimately facilitate analysis of higher order functional deficits relevant to complex nervous system disorders.

Bioengineering Research Grants (BRG) (R01)

National Institutes of Health, Cross-Institute


Contact: Varies with research interest

Solicitation number: PAR-16-242

The purpose of this FOA 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, translational, 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 that can increase our understanding of and solve problems in biological, clinical or translational science. Application budgets are not limited but need to reflect actual needs of the proposed project. The maximum award period is 5 years depending on the NIH Institutes and Centers.

NIDCD Research on Hearing Health Care (R01)

National Institutes of Health, National Institute on Deafness and Other Communication Disorders (NIDCD)


Contact: Amy Donahue, 301/402-3458, donahuea@nidcd.nih.gov

Solicitation number: PA-14-091

This FOA encourages Research Project Grant (R01) applications from institutions/organizations to support research leading to accessible and affordable hearing health care (HHC). The overarching emphasis is on the acquisition of knowledge that can be rapidly translated into new or enhanced approaches for access, assessment or interventions with a goal to delivering better hearing health care outcomes. Applications should seek quality approaches that are effective, affordable and deliverable to those who need them as well as implementable and sustainable in settings beyond the research environment. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-090, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Prevention and Treatment of Substance Using Populations with or at Risk for HCV (R01)

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


Contact: Will Aklin, 301/443-3207, aklinwm@nida.nih.gov
Solicitation number: PA-14-137

This FOA (R01) outlines priority areas for high impact clinical and basic research for at-risk substance using populations, including those infected with or at risk for HIV. In particular, this FOA encourages research focused on prevention and treatment of Hepatitis C Virus (HCV) to reduce new infections and identify and treat existing infections more effectively. This FOA is informed by priority areas in the 2011 HHS Action Plan, Combating the Silent Epidemic of Viral Hepatitis: Action Plan for the Prevention, Care and Treatment of Viral Hepatitis. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-14-136 and PA-14-135, that utilize the R21 Exploratory/Developmental Grant and R34 Planning Grant mechanisms, respectively.

Alcohol-Induced Effects on Tissue Injury and Repair (R01)

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (NIAAA)

http://grants.nih.gov/grants/guide/pa-files/PA-14-123.html

Contact: William Dunty, 301/443-7351, duntyw@mail.nih.gov
Solicitation number: PA-14-123

This FOA encourages Research Project Grant (R01) applications to study molecular and cellular mechanisms of tissue injury and repair associated with alcohol use in humans. Excessive alcohol consumption has the potential to adversely affect multiple organ systems including the liver, brain, heart, pancreas, lung, kidney, endocrine and immune systems, as well as bone and skeletal muscle. In addition, there is accumulating evidence that long term alcohol consumption is associated with reduced host capacity for recovery and repair following trauma. The mechanisms for these alcohol-induced effects on tissue injury and repair are currently not fully understood. NIAAA is especially interested in integrative research that elucidates alcohol’s effects on complex mechanisms of injury and repair that are either common or specific to each organ system. This FOA also encourages the study of alcohol’s effect on stem cells, embryonic development, and regeneration. Also encourages are studies on molecular and cellular actions of moderate alcohol consumption. A better understanding of these underlying mechanisms may provide new avenues for developing more effective and novel approaches for prognosis, diagnosis, intervention, and treatment of alcohol-induced organ damage. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-124, that utilizes the R21 Exploratory/Developmental Grant mechanism.

A Family-Centered Self-Management of Chronic Conditions (R01)

National Institutes of Health, National Institute of Nursing Research (NINR)


Contact: Karen Huss, 301/594-5970, hussk@mail.nih.gov
Solicitation number: PA-14-112

The purpose of this FOA is to encourage research that seeks to build the science of family-centered self-management (FCSM) in chronic conditions. Examples of approaches to this opportunity are as follows but are not limited to: 1) Develop and test FCSM interventions that promote family equilibrium for individuals with chronic conditions as well as when multiple family members have chronic conditions and are at risk of exacerbation of their illness; 2) Develop innovative research designs to determine which FCSM interventions are most efficient to include variability across developmental life stages and who will benefit most; and 3) Incorporate novel technologies for individual and family members to facilitate FCSM such as: monitoring symptom status, promoting health behavioral modifications and accessing/imparting health information. The maximum duration of a project period solicited under this FOA is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-113, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Behavioral Interventions to Address Multiple Chronic Health Conditions in Primary Care (R01)

National Institutes of Health, Cross-Institute

Contact: Varies with research interest
Solicitation number: PA-14-114

This FOA seeks Research Project Grant (R01) applications that propose to use a common conceptual model to develop behavioral interventions to modify health behaviors and improve health outcomes in patients with comorbid chronic diseases and health conditions. Specifically, this FOA will support research in primary care that uses a multi-disease care management approach to behavioral interventions with high potential impact to improve patient-level health outcomes for individuals with three or more chronic health conditions. The proposed approach must modify behaviors using a common approach rather than administering a distinct intervention for each targeted behavior and/or condition. Diseases and health conditions can include, but are not limited to: mental health disorders (e.g., depression), diabetes, smoking, obesity, chronic pain, alcohol and substance abuse and dependence, chronic obstructive pulmonary disorder, cancer and hypertension. The maximum duration of a project period solicited under this FOA is five years.

Extended Development, Hardening and Dissemination of Technologies in Biomedical Computing, Informatics and

National Institutes of Health, Cross-Institute

Contact: Varies with research interest
Solicitation number: PA-14-156

The goal of this program announcement is to support the extended development, maintenance, testing, evaluation, hardening and dissemination of existing biomedical software. The NIH is interested in promoting a broad base of research and development of technologies in biomedical computing, informatics, and Big Data Science that will support rapid progress in areas of scientific opportunity in biomedical research. It is expected that this research and development is conducted in the context of important biomedical and behavioral research problems and that domain researchers are consulted to make sure that the software is relevant to users. As such, applications are intended to develop enabling technologies that could apply to the interests of most NIH Institutes and Centers and range from basic biomedicine and including research to all relevant organ systems and diseases. Major themes of research include collaborative environments; data integration; analysis and modeling methodologies; and novel computer science and statistical approaches. New opportunities are also emerging as large and complex data sets are becoming increasingly available to the research community. The proposed work should apply best practices and proven methods for software design, construction, and implementation to extend the applicability of existing technologies in biomedical computing, informatics and big data science to a broader biomedical research community. The maximum duration of a project period is five years. This FOA runs in parallel with FOAs of identical scientific scope, PA-14-155, PA-14-154 and PA-14-157 that utilize the R21, R43/R44 and R41/R42 grant mechanisms, respectively.

Temporal Dynamics of Neurophysiological Patterns as Potential Targets for Treating Cognitive Deficits in Brain Dis

National Institutes of Health, Cross-Institute, National Institute of Mental Health (NIMH)

Contact: Varies with research interest
Solicitation number: PAR-14-153

A rich body of evidence suggests that cognitive processes are associated with particular patterns of neural activity. These data indicate 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 cognitive improvement in neuropsychiatric disorders. This initiative encourages applications to test whether modifying electrophysiological patterns during behavior can improve cognitive abilities. Applications should use experimental designs that incorporate active manipulations to address at least one, and ideally more, of the following topics: (1) in behaving animals, determine which parameters of neural coordination, when manipulated in isolation, improve particular aspects of cognition; (2) in animals or humans, determine how particular abnormalities at the cellular or molecular level, such as specific receptor dysfunction, affect the 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 normal humans or clinical populations; and (4) use systems-level computational modeling to develop a principled understanding of the function and mechanisms by which oscillatory and other electrophysiological temporal dynamic patterns unfold across the brain (cortically and subcortically) to impact cognition. Projects are limited to five years in duration. This FOA runs in parallel with a FOA of identical scientific scope, PAR-14-158, that utilizes the R21 Exploratory/Developmental Grant mechanism.
**Biology of Manual Therapies (R01)**

National Institutes of Health, National Center for Complementary and Alternative Medicine (NCCAM)


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

Solicitation number: PA-14-168

This FOA encourages research grant applications (R01) from institutions/organizations that propose to investigate the basic science and mechanisms of action underlying the neurophysiological (especially the central nervous system responses), immunological, endocrinological and/or biomechanical consequences of manual therapies, such as spinal manipulation, mobilization and massage therapy. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-167, that utilizes the R21 Exploratory/Developmental Grant mechanism.

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**Clinical Studies of Mental Illness Not Involving Treatment Development, Efficacy, or Effectiveness Trials (Collaborative)**

National Institutes of Health, National Institute of Mental Health (NIMH)


Contact: Shelli Avenevoli, 301/443-8316, avenevos@mail.nih.gov

Solicitation number: PAR-14-165

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

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**Healthy Habits: Timing for Developing Sustainable Healthy Behaviors in Children and Adolescents (R01)**

National Institutes of Health, National Institute of Nursing Research (NINR)


Contact: Varies with research interest

Solicitation number: PA-14-177

This FOA seeks to encourage applications that employ innovative research to identify mechanisms of influence and/or promote positive sustainable health behavior(s) in children and youth (birth to age 21). Applications to promote positive health behavior(s) should target social and cultural factors, including, but not limited to: schools, families, communities, population, food industry, age-appropriate learning tools and games, social media, social networking, technology and mass media. Topics to be addressed in this announcement include: effective, sustainable processes for influencing young people to make healthy behavior choices; identification of the appropriate stage of influence for learning sustainable lifelong health behaviors; the role of technology and new media in promoting healthy behavior; identification of factors that support healthy behavior development in vulnerable populations, identification of barriers to healthy behaviors; and, identification of mechanisms and mediators that are common to the development of a range of habitual health behaviors. Given the many factors involved in developing sustainable health behaviors, applications from multidisciplinary teams are strongly encouraged. The ultimate goal of this FOA is to promote research that identifies and enhances processes that promote sustainable positive behavior or changes social and cultural norms that influence health and future health behaviors. The maximum project period is five years. This FOA runs in parallel with a FOA of identical scientific scope, PA-14-176, that utilizes the R21 Exploratory/Developmental Grant mechanism.
Understanding Factors in Infancy and Early Childhood (Birth to 24 months) That Influence Obesity Development (R01)

National Institutes of Health


Contact: Mary Evans, 301/594-4578, evansmary@niddk.nih.gov

Solicitation number: PAR-14-323

This FOA invites Research Project Grant (R01) applications from institutions/organizations which propose to characterize or identify factors in early childhood (birth-24 months) that may increase or mitigate risk for obesity and/or excessive weight gain and/or to fill methodological research gaps relevant to the understanding of risk for development of obesity in children. Studies must propose research in children from birth to 24 months, although any proposed follow-up assessments, if applicable, may continue past this period. Studies may also assess factors relevant to families and/or caregivers of children from birth to 24 months. Applications should seek to fill unique research needs and involve expertise across disciplines as appropriate for the proposed research question.

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

National Institutes of Health


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

Solicitation number: PA-15-100

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

Early-life Factors and Cancer Development Later in Life (R01)

National Institutes of Health


Contact: Somdat Mahabir, 240/276-6941, mahabir@mail.nih.gov

Solicitation number: PA-15-126

The purpose of this FOA is to stimulate research focused on the role of early-life factors in cancer development later in life. Given that current emerging evidence from limited research indicates a potentially important role for early-life events and exposures in cancer development, it is necessary to better understand 1) the early-life (maternal-paternal, in utero, birth and infancy, puberty and adolescence, and teenage and young adult years) factors that are associated with later cancer development; 2) how early-life factors mediate biological processes relevant to carcinogenesis; and 3) whether predictive markers for cancer risk based on what happens biologically at early-life can be measured and developed for use in cancer prevention strategies. The maximum project period is five years.

This FOA runs in parallel with two FOA's of identical scope, PA-15-125 and PA-15-124, which utilize the R21 Exploratory/Developmental Grant and the R03 Small Grant Program respectively.
Advancing Translational and Clinical Probiotic/Prebiotic and Human Microbiome Research (R01)
National Institutes of Health
Contact: Gabriela Riscuta, 240/276-7118, gabriela.riscuta@nih.gov
Solicitation number: PA-15-127
The purpose of this FOA is twofold: 1. to accelerate translational and clinical Phase I and II a/b safety and efficacy studies for substantiating measurable functional benefits of probiotic/prebiotic components and/or their combinations; and; 2. to understand the underlying mechanisms of their action(s), and variability in responses to these interventions. This FOA calls for interdisciplinary collaborations across scientific disciplines engaged in microbiome and pro/prebiotic research including, but not limited to: nutritional science, microbiology, virology, microecology and microbiome, genomics, immunology, computational biology, chemistry, bioengineering, as well as integration of omics and computational approaches in DNA technologies.

New Directions in Hematology Research (SHINE-II) (R01)
National Institutes of Health
Contact: varies with research interest
Solicitation number: PAS-15-168
This FOA is intended to promote innovative research initiatives that explore high impact, new directions of inquiry relevant to the hematology research mission of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). NIDDK invites investigator-initiated grant applications for basic or pre-clinical, proof of principle research projects that are tightly focused and directed at validating novel concepts and approaches that promise to open up new pathways for discovery. The maximum award is $200K per year for up to three years.

Alcohol Use Disorders: Behavioral Treatment, Services and Recovery Research (R01)
National Institutes of Health
Contact: Daniel Falk, 301/443-0788, falkde@mail.nih.gov
Solicitation number: PA-15-299
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. Application budgets are not limited, but must reflect the actual needs of the proposed project.
Health Disparities and Alzheimer's Disease (R01)

National Institutes of Health


Contact: Cerise Elliott, 301/496-9350, elliottce@mail.nih.gov

Solicitation number: PAR-15-349

This FOA invites applications proposing to study health disparities in Alzheimer’s disease (AD) and related disorders. Health-disparities research related to AD should include the study of biological, behavioral, sociocultural, and environmental factors that influence population level health differences. Research approaches of interest include 1) improving recruitment and retention of populations underrepresented in AD research, 2) identifying priority factors or locating pathways and mechanisms that create and sustain AD health disparities, 3) addressing the challenges faced by informal/family caregivers from diverse racial, ethnic and socioeconomic backgrounds that are associated with the growing population of individuals with Alzheimer’s Disease, and 4) understanding the disparities in access to and utilization of formal long-term supports and services for those with dementia. NIH intends to fund an estimate of 10 - 12 awards, corresponding to a total of $10 million for fiscal year 2016. Future year amounts will depend on annual appropriations.

Diabetes and Cardiovascular Disease in Older Adults (R01)

National Institutes of Health


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

Solicitation number: PA-15-037

This FOA invites applications that propose basic, clinical, and epidemiological outcomes research on the impact of age on the development of, diagnosis, and management of diabetes and cardiovascular disease (CVD) complications in older persons or animal models. Research may focus on, but is not limited to 1) the epidemiology of increasing incidence and prevalence of DM with advancing age, particularly regarding potential racial-ethnic disparities, 2) the elucidation of age-related mechanisms predisposing older adults to diabetes and resultant CVD, 3) understanding the role of aging in increased incidence and severity of CVD outcomes in older diabetics, and 4) determining age-specific prevention, screening, diagnostic, and management strategies of DM in older persons and its CVD complications. Research supported by this initiative is expected to elucidate the role of aging mechanisms that underlie the increased vulnerability of older adults to DM and its CVD complications and to provide evidence-based guidance to improve more appropriate diagnostic criteria, risk stratification, and intervention recommendations to prevent the onset, or improve short- and long-term outcomes, of DM and CVD in older persons. The maximum project period is 5 years.

This FOA runs in parallel with two FOAs of identical scope, PA-15-039 and PA-15-038, that utilize the R03 Small Grant Program R21 Exploratory/Developmental Grant mechanisms, respectively.

Personalized Strategies to Manage Symptoms of Chronic Illness (R01)

National Institutes of Health

Personalized Strategies to Manage Symptoms of Chronic Illness (R01)

Contact: Martha Matocha, 301/594-2775, matocham@mail.nih.gov

Solicitation number: PA-16-007

The purpose of this initiative is to encourage interdisciplinary research to decrease symptom burden and enhance health-related quality of life (HRQL) in persons with chronic illness through a) increasing knowledge of the biological mechanisms of symptoms and b) promoting innovative, cost-effective, targeted interventions to prevent, manage or ameliorate these symptoms. This FOA runs in parallel with two FOAs of identical scope, PA-16-006 and PA-16-008, that utilize the R15 Academic Research Enhancement Award (AREA) mechanism and Exploratory/Developmental Grant mechanism, respectively.
Advancing Understanding, Prevention, and Management of Infections Transmitted from Women to their Infants (R01)
National Institutes of Health

Contact: Nahida Chakhtoura, 301/435-6872, nahida.chakhtoura@nih.gov
Solicitation number: PA-16-032

This FOA runs in parallel with a FOA of identical scope, PA-16-031, that utilizes the R21 Exploratory/Developmental Grant mechanism.

Oocyte Mitochondrial Function in Relation to Fertility, Aging, and Mitochondrial Diseases (R01)
National Institutes of Health

Contact: Ravi Ravindranath, 301/435-6889, ravindrn@mail.nih.gov
Solicitation number: PA-16-088

This FOA is to encourage applications from the scientific community to support outstanding research in the area of oocyte mitochondrial function in relation to fertility, aging, and mitochondrial disease transmission to offspring. The overarching goal is to gain fundamental insight into the role of mitochondria and long-term consequences of their dysfunction in the oocyte, and to develop therapeutic or alternative approaches to treat mitochondrial dysfunction for improving oocyte quality and competency, and health of the resultant offspring. It is anticipated that the results from studies supported by this FOA will provide women, suffering from infertility or subfertility and other illnesses due to mitochondrial dysfunction, practical approaches to enhance their fertility and the well-being of their offspring. The maximum period is 5 years.

Diet and Physical Activity Assessment Methodology (R01)
National Institutes of Health

Contact: 
Solicitation number: PAR-15-170

This Funding Opportunity Announcement (FOA) encourages innovative research to enhance the quality of measurements of dietary intake and physical activity. Applications submitted under this FOA are encouraged to include development of: novel assessment approaches; better methods to evaluate instruments; assessment tools for culturally diverse populations or various age groups, including children and older adults; improved technology or applications of existing technology; statistical methods/modeling to improve assessment and/or to correct for measurement errors or biases; methods to investigate the multidimensionality of diet and physical activity behavior through pattern analysis; or integrated measurement of diet and physical activity along with the environmental context of such behaviors.
Early Stage Development of Technologies in Biomedical Computing, Informatics, and Big Data Science (R01) -- AIDS

The NIH is interested in promoting a broad base of research and development of technologies in biomedical computing, informatics, and Big Data Science that will support rapid progress in areas of scientific opportunity in biomedical research. It is expected that this research and development is conducted in the context of important biomedical and behavioral research problems. As such, applications are intended to develop enabling technologies that could apply to the interests of most NIH Institutes and Centers and range from basic biomedicine and including research to all relevant organ systems and diseases. Major themes of research include collaborative environments; data integration; analysis and modeling methodologies; and novel computer science and statistical approaches. New opportunities are also emerging as large and complex data sets are becoming increasingly available to the research community. This initiative aims to address biomedical research areas in biomedical computing, informatics, and Big Data science through the early stage development of new software, tools and related resources, as well as the fundamental research (e.g., methodologies and approaches) leading up to that development. Acceptable budgets are not to exceed $300k direct costs per year. The project period is limited to three years.

Methodology and Measurement in the Behavioral and Social Sciences (R01)

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

Developing Measures of Shared Decision Making (R01)

Shared decision making (SDM) is a collaborative process in which patients and members of their clinical team work together to make health care decisions informed by scientific evidence as well as patients’ own values and preferences. SDM has proven difficult to measure, and the literature points to significant gaps and limitations in the measurement of SDM. The purpose of this Funding Opportunity Announcement (FOA) is to invite applications to develop, test, and evaluate measures of SDM that can be used to conduct research in clinical settings.
Basic and Translational Research on Decision Making in Aging and Alzheimer's Disease (R01)

National Institutes of Health


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

Solicitation number: PAR-16-448

PAR-16-448

This funding opportunity announcement (FOA) invites applications for basic research to better characterize the affective, cognitive, social, and motivational parameters of impaired and intact decision making in both normal aging and Alzheimer’s disease (AD). Research is sought that will characterize the extent to which basic behavioral and neural processes involved in decision-making are differentially impacted in normal aging and AD, investigate the influence of social factors on decision-making, and investigate the decision-making factors that render older adults (with or without cognitive impairment) vulnerable to financial exploitation and other forms of mistreatment and abuse.

The FOA also invites applications to apply basic research on the processes involved in decision-making to the design of decision-supportive interventions for midlife and older adults with and without AD. Specific opportunities include the development of decision-supportive interventions to leverage cognitive, emotional and motivational strengths of these populations; tools to assess decisional capacity; strategies for simplifying choices and offering better defaults; and the promotion of timely adoption of optimal delegation practices (e.g., power of attorney, living wills, etc.).

Application budgets are not limited but need to reflect the actual needs of the proposed project.

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 $500,000 in any given year for a period of up to five (5) years.

Addressing Health Disparities in NIDDK Diseases (R01)

National Institutes of Health


Contact: Lawerence Agodoa, 301/594-1932, agodoal@mail.nih.gov

Solicitation number: PA-17-021

This Funding Opportunity Announcement (FOA) invites research projects to improve understanding of the causes of high priority diseases in the United States and reducing/eliminating health disparities. Research is encouraged in the following high priority diseases within the scientific mission areas of the NIDDK: diabetes; obesity; nutrition-related disorders; hepatitis C; gallbladder disease; H. Pylori infection; sickle cell disease, specifically, studies in complications of sickle cell disease within the NIDDK mission areas; kidney diseases; urologic diseases; hematologic diseases, including studies in abnormal hemoglobin synthesis; metabolic diseases; gastrointestinal, hepatic, and renal complications from infection with HIV. Clinical trials are not permitted in response to this FOA.

Application budgets are not limited but need to reflect the actual needs of the proposed project.
**Palliative Care Needs of Individuals with Rare Advanced Diseases and Their Family Caregivers (R01)**

National Institutes of Health


Contact: Lynn Adams, 301/594-8911, adamsls@mail.nih.gov

Solicitation number: PA-17-018

This funding opportunity announcement (FOA) seeks to expand knowledge and increase the evidence base for palliative care (PC) in advanced rare diseases, including rare cancers, and to improve physical and psychosocial well-being and quality of life among seriously ill individuals and their family caregivers.

Application budgets are not limited but need to reflect the actual needs of the proposed project.

**Improving Individual and Family Outcomes through Continuity and Coordination of Care in Hospice (R01)**

National Institutes of Health


Contact: Karen Kehl, 301/594-8010, kehlka@mail.nih.gov

Solicitation number: PA-17-016

This funding opportunity announcement (FOA) seeks to stimulate research that focuses on reducing negative individual and family outcomes related to unwanted transitions at the end of life and optimizing the individual and family outcomes related to high quality coordination of care of individuals who are enrolled in hospice. This FOA emphasizes individuals who are receiving hospice care and their family caregivers, in any setting where hospice care is provided, including their home, a relative’s home, a hospice inpatient facility, an assisted living facility, a short- or long-term care facility, or a hospital.

Application budgets are not limited but need to reflect the actual needs of the proposed project.

**Addressing Unmet Needs in Persons with Dementia to Decrease Behavioral Symptoms and Improve Quality of Life**

National Institutes of Health


Contact: Lois Tully, 301/594-5968, tullyla@mail.nih.gov

Solicitation number: PA-17-014

The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research addressing behavioral and psychological symptoms of dementia (BPSD) and the association of BPSD with unmet physical, social, or environmental needs in persons with dementia.

Application budgets are not limited but need to reflect the actual needs of the proposed project.
Self-Management Interventions and Technologies to Sustain Health and Optimize Functional Capabilities (R01)

National Institutes of Health

Contact: Karen Huss, 301/594-5970, hussk@mail.nih.gov
Solicitation number: PA-17-012

This Funding Opportunity Announcement (FOA) seeks clinical research on self-management interventions and technologies that improve health and quality of life in persons needing assistance to optimize and maintain existing functional capabilities, prevent/delay disabilities and navigate their environment. The research focus encompasses maintenance/restorative care that can be tailored to individuals’ existing functional abilities and interests and is intended to enhance physical, sensory, motor, and mental capabilities. Of particular interest is research designed to maintain functional capabilities in such conditions as cardiac and respiratory insufficiency, movement impairment associated with arthritis, chronic back pain, stroke, and other physical or cognitive disabilities.

Use of Technology to Enhance Patient Outcomes and Prevent Illness (R01)

National Institutes of Health

Contact: Augie Diana, 301/402-6423, dianaa@mail.nih.gov
Solicitation number: PA-17-010

This Funding Opportunity Announcement (FOA) seeks clinical research focused on the development and utilization of technologies that can help address patient outcomes. Relevant areas of technology include remote healthcare delivery to patients via telehealth, robotics to enhance medication adherence, on-site (e.g., clinical or home setting) care delivery, mobile health to increase access and adherence, web-based decision support tools, and others. Research projects may focus on assessment, diagnosis, intervention development, or intervention implementation. Research projects that a) incorporate emerging and cutting edge technologies to explain and predict patient trajectories, b) inform interventions, c) support real-time clinical decision making, and d) facilitate effective long-term management of chronic illness are especially needed. Critical to this FOA, proposed research should identify specific patient outcomes expected to improve from technological approaches. The specific tools or interventions proposed should clearly indicate how they will enhance patient benefits in environments, such as clinical settings, and/or in the home and community.

Application budgets are not limited but need to reflect the actual needs of the proposed project.
Use of Technology to Enhance Patient Outcomes and Prevent Illness (R01)

National Institutes of Health

Contact:  Augie Diana, 301/402-6423, dianaa@mail.nih.gov
Solicitation number:  PA-17-010

This Funding Opportunity Announcement (FOA) seeks clinical research focused on the development and utilization of technologies that can help address patient outcomes. Relevant areas of technology include remote healthcare delivery to patients via telehealth, robotics to enhance medication adherence, on-site (e.g., clinical or home setting) care delivery, mobile health to increase access and adherence, web-based decision support tools, and others. Research projects may focus on assessment, diagnosis, intervention development, or intervention implementation. Research projects that a) incorporate emerging and cutting edge technologies to explain and predict patient trajectories, b) inform interventions, c) support real-time clinical decision making, and d) facilitate effective long-term management of chronic illness are especially needed. Critical to this FOA, proposed research should identify specific patient outcomes expected to improve from technological approaches. The specific tools or interventions proposed should clearly indicate how they will enhance patient benefits in environments, such as clinical settings, and/or in the home and community.

Application budgets are not limited but need to reflect the actual needs of the proposed project.

Palliative Care Needs of Individuals with Rare Advanced Diseases and Their Family Caregivers (R01)

National Institutes of Health

Contact:  Lynn Adams, 301/594-8911, adamsls@mail.nih.gov
Solicitation number:  PA-17-018

This funding opportunity announcement (FOA) seeks to expand knowledge and increase the evidence base for palliative care (PC) in advanced rare diseases, including rare cancers, and to improve physical and psychosocial well-being and quality of life among seriously ill individuals and their family caregivers.

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:  Lawrence Agodoa, 301/594-1932, agodoal@mail.nih.gov
Solicitation number:  PA-17-021

This Funding Opportunity Announcement (FOA) invites research projects to improve understanding of the causes of high priority diseases in the United States and reducing/eliminating health disparities. Research is encouraged in the following high priority diseases within the scientific mission areas of the NIDDK: diabetes; obesity; nutrition-related disorders; hepatitis C; gallbladder disease; H. Pylori infection; sickle cell disease, specifically, studies in complications of sickle cell disease within the NIDDK mission areas; kidney diseases; urologic diseases; hematologic diseases, including studies in abnormal hemoglobin synthesis; metabolic diseases; gastrointestinal, hepatic, and renal complications from infection with HIV. Clinical trials are not permitted in response to this FOA.

Application budgets are not limited but need to reflect the actual needs of the proposed project.
Integrative Research to Understand the Impact of Sex Differences on the Molecular Determinants of AD Risk and R

This FOA invites applications that apply a cross-disciplinary, team science approach to gain comprehensive, mechanistic understanding of the impact of sex differences on the trajectories of brain aging and phenotypes of AD risk and on the responsiveness to pharmacologic and non-pharmacologic interventions.

Annual direct costs are capped at $750K.

Translational Bioinformatics Approaches to Advance Drug Repositioning and Combination Therapy Development f

This funding opportunity invites applications that integrate the use of computational approaches to identify individual drugs currently used for other conditions with potential to be efficacious in AD or AD-related dementias (as single drugs or as drug combinations) with proof-of-concept efficacy studies in cell-based models, animal models and/or humans.

Annual direct costs are capped at $500K.

Common Mechanisms and Interactions Among Neurodegenerative Diseases (R01)

This FOA encourages preclinical and clinical research to study whether, and how, different neurodegenerative disease processes interact with one another to initiate and/or hasten progression of neuropathology and dementia.

Multidisciplinary Studies of HIV and Viral Hepatitis Co-Infection (R01)

The purpose of this Funding Opportunity Announcement (FOA) is to fill gaps in our understanding of a) the pathogenic interactions between HIV and hepatitis viruses, b) co-morbidities associated with HIV/hepatitis virus co-infection, and c) the effectiveness of interferon-free direct-acting antiviral drug regimens to treat HIV/HCV co-infection. This FOA is informed by priority areas in the 2011 HHS Action Plan, Combating the Silent Epidemic of Viral Hepatitis: Action Plan for the Prevention, Care and Treatment of Viral Hepatitis http://www.hhs.gov/ash/initiatives/hepatitis/index.html.
Clarifying the Relationship between Delirium and Alzheimer’s Disease and Related Dementias (R01)

National Institutes of Health


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

Solicitation number: PAR-17-038

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

2/5/2017 Application
6/5/2017 Application
10/5/2017 Application

Addressing the Etiology of Health Disparities and Health Advantages Among Immigrant Populations (R01)

National Institutes of Health


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

Solicitation number: PA-17-041

The purpose of this Funding Opportunity Announcement (FOA) is to support innovative research to understand uniquely associated factors (biological, behavioral, sociocultural, and environmental) that contribute to health disparities or health advantages among U.S. immigrant populations.

2/5/2017 Application
6/5/2017 Application
10/5/2017 Application

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

National Institutes of Health

https://grants.nih.gov/grants/guide/pa-files/PA-17-043.html

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

Solicitation number: PA-17-043

The purpose of this Funding Opportunity Announcement (FOA) is to support innovative research to develop and implement effective interventions to address health disparities among U.S. immigrant populations.
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.

Leveraging Existing Cohort Studies to Clarify Risk and Protective Factors for Alzheimer’s Disease and Related Dementias

National Institutes of Health


Contact: Jonathan King, 301/402-4156, kingjo@nia.nih.gov

Solicitation number: PAR-17-054

This FOA invites applications that will combine multiple cohorts in order to improve statistical power and clarify risk and protective factors for Alzheimer’s disease and related dementias (AD/ADRD).
Oral Anticancer Agents: Utilization, Adherence, and Health Care Delivery (R01)

National Institutes of Health


Contact: Wendy Nelson, 240/276-6971, nelsonw@mail.nih.gov

Solictitation number: PA-17-060

The purpose of this funding opportunity announcement (FOA) is to encourage research grant applications to: (1) assess and describe the current state of oral anticancer medication utilization, delivery, and adherence; (2) identify structural, systemic, and psychosocial barriers to adherence; and (3) develop models and strategies to improve safe and effective delivery of these agents so that clinical outcomes are optimized. Applications should focus research questions on at least one of the following: specific cancer type; class of drugs; and/or groups subject to disparities (e.g., elderly populations, members of low socioeconomic groups, racial/ethnic minorities). Research may be focused at the patient (pediatric, adolescent, or adult), patient-caregiver, provider, health care team, or health care delivery system level, and may include intervention studies, observational studies, or mixed-methods studies. Observational studies should emphasize modifiable risk factors for future intervention research.

NIH Revision Awards for Creating Virtual Consortium for Translational/Transdisciplinary Environmental Research (ViCTER)

National Institutes of Health


Contact: Jonathan Hollander, 919/541-9467, jonathan.hollander@nih.gov

Solictitation number: RFA-ES-17-002

The purpose of the ViCTER program is to foster and promote transdisciplinary collaborations and/or translational research efforts among basic (technology and mechanism oriented), clinical (patient-oriented) and population-based researchers and other individuals with expertise relevant to environmental health who have come together in common interest around a particular environmental stressor(s) of interest. A key component of the Virtual Consortia Program is the stimulation of innovative and novel cross-disciplinary and/or translational collaborations that can be more difficult to achieve in a typical R01 application, thereby accelerating the public health impact of the research.

Application budgets are limited to $300K direct cost per year and should reflect the actual needs of the proposed project.

Mentored Quantitative Research Development Award (Parent K25)

National Institutes of Health


Contact:

Solictitation number: PA-16-194

The purpose of the Mentored Quantitative Research Career Development Award (K25) is to attract to NIH-relevant research those investigators whose quantitative science and engineering research has thus far not been focused primarily on questions of health and disease. The K25 award will provide support and “protected time” for a period of supervised study and research for productive professionals with quantitative (e.g., mathematics, statistics, economics, computer science, imaging science, informatics, physics, chemistry) and engineering backgrounds to integrate their expertise with NIH-relevant research.
The purpose of the NCI Mentored Research Scientist Development Award (K01) is to enhance the diversity of the NCI-funded cancer research workforce by supporting eligible individuals from groups that have been shown to be underrepresented in the biomedical, behavioral, social and clinical sciences. This FOA provides salary and research support for a sustained period of "protected time" for intensive research career development under the guidance of an experienced mentor, or sponsor. The Diversity Training Branch (DTB) of the Center to Reduce Cancer Health Disparities (CRCHD), at the National Cancer Institute (NCI), invites career development award applications (K01) from individuals from backgrounds that have been shown to be underrepresented in health-related science.

Contact:  
Solicitation number: PAR-16-401

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

Contact: Michelle Jones-London, 301/451-7966, jonesmiche@ninds.nih.gov
Solicitation number: PAR-16-219

The overall goal of the program is to help ensure that a diverse pool of highly trained scientists is available in appropriate scientific disciplines to address the Nation's biomedical, behavioral, and clinical research needs. The objective of this award is to provide salary and research support for a sustained period of "protected time" (3 years) for intensive research career development under the guidance of an experienced mentor, or sponsor, in the biomedical, behavioral or clinical sciences leading to research independence. The expectation is that, through this sustained period of research career development and training, awardees will launch independent research careers and become competitive for new research project grant (e.g., R01) funding. The National Library of Medicine (NLM) Career Development Award in Biomedical Informatics and Data Science (K01) is intended to provide support for promising junior investigators as they launch their research careers in biomedical informatics research and data science. NLM supports research career development in healthcare/clinical informatics, translational bioinformatics, clinical research informatics and public health informatics. The total project period may not exceed 3 years.
NIH Pathway to Independence Award (Parent K99/R00)
National Institutes of Health
Contact: varies with research intent
Solicitation number: PA-16-193
The purpose of this award program is to increase and maintain a strong cohort of new and talented, NIH-supported, independent investigators. This program is designed to facilitate a timely transition of outstanding postdoctoral researchers with a research and/or clinical doctorate degree from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions. The program will provide independent NIH research support during this transition in order to help awardees to launch competitive, independent research careers. Prospective candidates are encouraged to contact the relevant NIH staff for IC-specific programmatic and budgetary information. The total project period may not exceed 5 years.

NCI Mentored Clinical Scientist Research Career Development Award to Promote Diversity (K08)
National Institutes of Health
Contact: John Ojeifo, 240/276-6186, ojeifojo@mail.nih.gov
Solicitation number: PAR-16-400
The purpose of the NCI Mentored Clinical Scientist Career Development Award (K08) program is to prepare individuals for careers that have a significant impact on the health-related research needs of the nation. This program represents the continuation of a long-standing NIH program that provides support and protected time to individuals with a clinical doctoral degree for an intensive, supervised research career development experience in the fields of biomedical and behavioral research, including translational research. The NCI-sponsored K08 award is specifically designed to promote career development of clinical scientists from diverse backgrounds that have been shown to be underrepresented in health-related science and for those who are committed to a career in basic biomedical, behavioral or translational cancer research, including research on cancer health disparities. The expectation is that through this sustained period of research career development and training, awardees will develop enhanced research capabilities for cancer research careers and be better prepared to compete for research project grants (e.g. R03, R21, or R01) funding.

NCI Mentored Patient-Oriented Research Career Development Award to Promote Diversity (K23)
National Institutes of Health
Contact: John Ojeifo, 240/276-6186, ojeifojo@mail.nih.gov
Solicitation number: PAR-16-399
The NCI's Diversity Training Branch (DTB) and the Center to Reduce Cancer Health Disparities (CRCHD) announce the availability of the "Mentored Patient-Oriented Research Award to Promote Diversity" for career development of individuals with a health professional doctoral degree from groups currently underrepresented on a national level in the biomedical, clinical, behavioral, and social sciences. The NCI recognizes a unique and compelling need to promote diversity in the patient-oriented research workforce.

Award budgets are composed of salary and other program-related expenses.
NCI Mentored Research Scientist Development Award to Promote Diversity (K01)

National Institutes of Health


Contact: Davyd Chung, 240/276-6921, davyd.chung@nih.gov

Solicitation number: PAR-16-401

The purpose of the NCI Mentored Research Scientist Development Award (K01) is to enhance the diversity of the NCI-funded cancer research workforce by supporting eligible individuals from groups that have been shown to be underrepresented in the biomedical, behavioral, social and clinical sciences. This FOA provides salary and research support for a sustained period of "protected time" for intensive research career development under the guidance of an experienced mentor, or sponsor.

The Diversity Training Branch (DTB) of the Center to Reduce Cancer Health Disparities (CRCHD), at the National Cancer Institute (NCI), invites career development award applications (K01) from individuals from backgrounds that have been shown to be underrepresented in health-related science.

Circadian Mechanisms Contributing to Obesity, Diabetes Metabolism, and Underlying Heart, Lung, and Blood Disease

National Institutes of Health


Contact: Aaron Laposky, 301/435-0193, laposkya@nhlbi.nih.gov

Solicitation number: RFA-HL-17-020

This FOA invites applications for clinical research to elucidate circadian-dependent mechanisms contributing to the pathophysiology of human obesity, diabetes-related metabolism, obesity-coupled risks for heart, lung, and blood disease, and the identification of novel therapies to improve circadian rhythm for primary or secondary prevention of obesity-associated disease risks. Multi-disciplinary, multiple-investigator teams proposing mechanistic clinical studies to elucidate the relationship of circadian rhythm to causal pathways of disease are encouraged. Studies of epidemiological risk and clinical trials to assess therapeutic efficacy, effectiveness, or implementation are outside the scope of this program.

Application budgets may not exceed direct costs of $500K per year in fiscal years 2017 through 2021.

Knowledge Management Center for Illuminating the Druggable Genome (U24)

National Institutes of Health


Contact: Jean ZenKlusen, 301/451-2144, jz44m@nih.gov

Solicitation number: RFA-RM-16-024

The overarching goal of this FOA and its companion announcements is to generate a research consortium to facilitate the unveiling of the functions of selected understudied proteins in the Druggable Genome using experimental and informatics approaches. This research consortium will be a part of the Implementation Phase of the Common Fund program, “Illuminating the Druggable Genome” (IDG; https://commonfund.nih.gov/idg/index) and will be composed of multiple Data and Resource Generation Centers (DRGCs; RFA-RM-16-026), a Knowledge Management Center (KMC; RFA-RM-16-024), and a Resource Dissemination and Outreach Center (RDOC; RFA-RM-16-025). Pending availability of funds, a future initiative may be issued to focus on Cutting Edge Informatics Tools (CEITs).
Cancer-Related Behavioral Research through Integrating Existing Data (R01)

National Institutes of Health


Contact: Richard Moser, 240/276-6915, moserr@mail.nih.gov

Solicitation number: PAR-16-255

This FOA invites applications that seek to integrate two or more independent data sets to answer novel cancer control and prevention questions. The goal is to encourage applications that incorporate Integrative Data Analysis (IDA) methods to study behavioral risk factors for cancer, including tobacco use, sedentary behavior, poor weight management, and lack of medical adherence to screening and vaccine uptake. It is important that the data being integrated are from different sources and types (including both quantitative and qualitative; data may span different levels such as genetic and environmental) and should include at least one source of behavioral data. Importantly, applicants should use existing data sources rather than collect new data. In addition, creating harmonized measures, developing culturally sensitive measures, replicating results and cross-study comparisons will be encouraged. Direct costs are limited to $275K over an two-year period, with no more than $200K in direct costs allowed in any single year.

This FOA runs in parallel with a FOA of identical scope, PAR-16-256, that utilizes the R01 Exploratory/Developmental Grant mechanism.

Systems Biology: The Next Generation for Infectious Diseases (U19)

National Institutes of Health


Contact:  Marchiela DeGrace, 240/627-3460, marciela.degrace@nih.gov

Solicitation number: RFA-AI-16-080

This Funding Opportunity Announcement (FOA) solicits applications to establish Systems Biology Centers that use systems biology approaches to build predictive models for infectious diseases. These models will be derived from hypotheses related to systems-level host/pathogen molecular interactions during infection or treatment using integrated datasets generated from a combination of high-throughput experimental approaches, including omics technologies and computational approaches. Importantly, the Centers must clearly integrate experimental approaches and computational modeling to test and validate hypotheses of significance to the infectious diseases field.

NIH Small Research Grant Program (Parent R03)

National Institutes of Health, Cross-Institute


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

Solicitation number: PA-16-162

This funding opportunity supports small research projects that can be carried out in a short period of time with limited resources. Examples of the types of projects that participating NIH Institutes and Centers (ICs) support with the R03 activity code include, but are not limited to, the following: 1) Pilot or feasibility studies; 2) Secondary analysis of existing data; 3) Small, self-contained research projects; 4) Development of research methodology; and 5) Development of new research technology. R03 grant applications are not expected to have the same level of detail or extensive discussion found in an R01 application. Accordingly, reviewers should evaluate the conceptual framework and general approach to the problem, placing less emphasis on methodological details and certain indicators traditionally used in evaluating the scientific merit of R01 applications including supportive preliminary data. Appropriate justification for the proposed work can be provided through literature citations, data from other sources, or from investigator-generated data. Preliminary data are not required, particularly in applications proposing pilot or feasibility studies. Applicants are encouraged to consult the IC Contacts and Special Interests website to determine if an investigator-initiated R03 application is appropriate. Additionally, applicants are strongly encouraged to consult with the Scientific/Research Contact at the appropriate IC about their proposed research project during the concept development stage of the application. The combined budget for direct costs for the two-year project period may not exceed $100K, and no more than $50K in direct costs may be requested in any single year.
NIH Exploratory & Developmental Research Grant Program (Parent R21)
National Institutes of Health, Cross-Institute
Contact: 301/435-0714, GrantsInfo@nih.gov
Solicitation number: PA-16-161
This funding opportunity supports the development of new research activities in categorical program areas. The R21 activity code is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual stages of these projects. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel techniques, agents, methodologies, models, or applications that could have a major impact on a field of biomedical, behavioral, or clinical research. Applications for R21 awards should describe projects distinct from those supported through the traditional R01 activity code. For example, long-term projects, or projects designed to increase knowledge in a well-established area, will not be considered for R21 awards. Projects of limited cost or scope that use widely accepted approaches and methods within well-established fields are better suited for the R03 small grant activity code. The combined budget for direct costs for the two-year project period may not exceed $275K, and no more than $200K may be requested in any single year.

Aging Research Dissertation Awards to Increase Diversity (R36)
National Institutes of Health
Contact: Chyren Hunter, 301-402-4158, hunterc@nia.nih.gov
Solicitation number: PAR-17-025
The purpose of this Funding Opportunity Announcement (FOA) is to provide dissertation awards in all areas of research within NIA’s strategic priorities to increase diversity of the scientific research workforce engaged in research on aging and aging-related health conditions.

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.
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.

Interdisciplinary Research to Understand the Complex Biology of Resilience to Alzheimer’s Disease Risk (R01)

National Institutes of Health


Contact: Suzana Petanceska, 301/496-9350, petanceskas@nia.nih.gov

Solicitation number: RFA-AG-17-061

This funding opportunity announcement invites comprehensive, cross-disciplinary studies aimed at building predictive molecular models of cognitive resilience based on high-dimensional molecular data collected in individuals who remain free of dementia despite being at high risk for Alzheimer’s disease.

National Quality Improvement Center for Preventive Services and Interventions in Indian Country

Department of Health and Human Services


Contact: Roshanda Shoulders, 888/203-6161, CB@grantreview.org

Solicitation number:

The purpose of this funding opportunity announcement (FOA) is to award a 5-year cooperative agreement to establish a Quality Improvement Center (QIC) on the prevention and intervention of child abuse and neglect in American Indian/Alaska Native (AI/AN) communities. The QIC will gather, generate, and disseminate knowledge regarding effective practice models for strengths-based, culturally relevant, trauma-informed, and preventive services and interventions for all forms of child maltreatment. As part of this work, the QIC will provide technical assistance and implementation assistance for two to five project sites. The purpose of the selected project sites is to implement and assess practice models that show promise in preventing child abuse and neglect and that may be implemented or adapted in other tribal child welfare systems.

Summer Research Education Experience Programs (R25)

National Institutes of Health


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

Solicitation number: PAR-15-184

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities that foster a better understanding of biomedical, behavioral and clinical research and its implications. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on Research Experiences for high school, undergraduate and science teachers during the summer academic break. The maximum award is $100K per year for up to five years.
Clinical Observational (CO) Studies in Musculoskeletal, Rheumatic, and Skin Diseases (R01)

National Institutes of Health


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

Solicitation number: PAR-15-115

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

Identification of Genetic and Genomic Variants by Next-Gen in Sequencing Non-human Animal Models (U01)

National Institutes of Health


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

Solicitation number: PAR-15-120

The goals of this initiative are to identify gene variants of traits associated with addiction and substance abuse in selectively bred, and outbred non-human animal models using methodologies of Next Gen-Sequencing, mapping, and genotyping. The maximum project period is five years.

International Research Scientist Development Award (IRSDA) (K01)

National Institutes of Health


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

Solicitation number: PAR-17-002

The purpose of the International Research Scientist Development Award (IRSDA) is to provide support and protected time (three to five years) to advanced postdoctoral U.S. research scientists and recently-appointed U.S. junior faculty (applicants must be at least two years beyond conferral of doctoral degree) for an intensive, mentored research career development experience in a low- or middle-income country (LMIC), as defined by the World Bank (http://data.worldbank.org/about/country-classifications/country-and-lending-groups, including “low-income,” “lower-middle-income,” and “upper-middle-income” countries) leading to an independently-funded research career focused on global health. This Funding Opportunity Announcement (FOA) invites applications from early-career investigators from any health-related discipline who propose career development activities and a research project that is relevant to the health priorities of the LMIC under the mentorship of LMIC and U.S. mentors.
Role of the Microflora in the Etiology of Gastro-Intestinal Cancer (R01)
National Institutes of Health, National Cancer Institute (NCI), National Institute on Alcohol Abuse and Alcoholism (NIAAA)


Contact: Varies with research interest
Solicitation number: PAR-12-140

This FOA encourages innovative multidisciplinary research projects that will advance our mechanistic understanding of microflora influences on Gastro-Intestinal (GI) carcinogenesis. This FOA seeks applications that leverage and integrate information from large, meta-omic data sets to guide studies that identify critical microbial activities that can be mechanistically linked to GI carcinogenesis. Applicants are encouraged to take advantage of existing methodologies and technologies developed by the microbiome and integrative cancer biology communities as well as other relevant technology sources, and to apply existing or new sophisticated data analysis, integration, and modeling methodologies to inform and guide hypothesis driven mechanistic studies on the role of the GI microflora during carcinogenesis. The common goal of the projects should be to understand how the resident microbes interact with the host and the host environment to prevent or enhance carcinogenesis in the GI tract. The maximum project period is five years.

NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (D-SPAN) Award (F9)
National Institutes of Health


Contact: Michelle Jones, 301/451-7966, jonesmiche@ninds.nih.gov
Solicitation number: RFA-NS-17-009

The purpose of the NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (D-SPAN) Award is to support a defined pathway across career stages for outstanding graduate students who are from diverse backgrounds underrepresented in neuroscience research. This two-phase award will facilitate completion of the doctoral dissertation and transition of talented graduate students to strong neuroscience research postdoctoral positions, and will provide career development opportunities relevant to their long-term career goal of becoming independent neuroscience researchers.

National Science Foundation (NSF)
Ongoing

Earth Sciences Instrumentation and Facilities (EAR IF)
National Science Foundation, Geosciences (GEO)


Contact: Varies with research interest
Solicitation number: NSF 11-544

The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division. EAR/IF will consider proposals for: Development of New Instrumentation, Analytical Techniques, or Software; Support of National or Regional Multi-User Facilities; or Support for Early Career Investigators. Proposals for Acquisition or Upgrade of Research Equipment will not be accepted in the Fiscal Year 2012 competition.

Grant Opportunities for Academic Liaison with Industry (GOALI)
National Science Foundation, Cross-Directorate


Contact: Varies with research interest
Solicitation number: NSF 12-513

GOALI promotes university-industry partnerships by making project funds or fellowships/traineeships available to support an eclectic mix of industry-university linkages. Special interest is focused on affording the opportunity for: Faculty, postdoctoral fellows, and students to conduct research and gain experience in an industrial setting; Industrial scientists and engineers to bring industry’s perspective and integrative skills to academe; and Interdisciplinary university-industry teams to conduct research projects. Each directorate handles GOALI requests differently. Proposers must contact a specific program director in the disciplinary area of the proposed research for guidance on proposal submission.
NSF-FDA Scholar-in-Residence at FDA

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

Hydrologic Sciences

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

Ceramics (CER)

This program supports fundamental scientific research in ceramics (e.g., oxides, carbides, nitrides and borides), glass-ceramics, inorganic glasses, ceramic-based composites and inorganic carbon-based materials. Projects should be centered on experiments; inclusion of computational and theory components are encouraged. The objective of the program is to increase fundamental understanding and to develop predictive capabilities for relating synthesis, processing, and microstructure of these materials to their properties and ultimate performance in various environments and applications. Research to enhance or enable the discovery or creation of new ceramic materials is welcome. Development of new experimental techniques or novel approaches to carry out projects is encouraged. Topics supported include basic processes and mechanisms associated with nucleation and growth of thin films; bulk crystal growth; phase transformations and equilibria; morphology; surface modification; corrosion, interfaces and grain boundary structure; and defects.
**Arctic Research Opportunities**

Ongoing

National Science Foundation, Office of Polar Programs


Contact: varies

Solicitation number: NSF 16-595

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

Ongoing

**Geobiology and Low-Temperature Geochemistry**

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 15-559

This program supports research on: 1) the interactions between biological and geological systems at all scales of space and time; 2) geomicrobiology and biomineralization processes; 3) the role of life in the transformation and evolution of the Earth's geochemical cycles; 4) inorganic and organic geochemical processes occurring at or near the Earth's surface now and in the past, and at the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 5) mineralogy and chemistry of soils and sediments; 6) surficial chemical and biogeochemical systems and cycles and their modification through natural and anthropogenic change; and 7) development of tools, methods, and models for low-temperature geochemistry and geobiological research - such as those emerging from molecular biology - in the study of the terrestrial environment. This program is especially interested in proposals in emerging fields. Anticipated funding is $5.2M annually for 30-40 standard awards.

Ongoing

**Sedimentary Geology and Paleobiology (SGP)**

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 16-536

SGP supports research in a wide variety of areas in sedimentary geology and paleobiology in order to comprehend the full range of physical, biological, and chemical processes of Earth's dynamic system. The program supports the study of deep-time records of these processes archived in the Earth's sedimentary crust at all spatial and temporal scales. These records are fingerprints of the processes that produced them and continue to shape the Earth. For the years 2013-2017, the Sedimentary Geology and Paleobiology Program will be sponsoring a two track opportunity that will consist of the normal SGP competition (Track 1) and bi-annually, a new track termed Earth-Life Transitions (ELT) (Track 2). Track 1: General Program supports general studies of: 1) the changing aspects of life, ecology, environments, and biogeography in past geologic time based on fossil plants, animals, and microbes; 2) all aspects of the Earth's sedimentary carapace - insights into geological processes recorded in its records 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 past sedimentary and biological (fossil) record; 4) the geologic record of the production, transportation, and deposition of physical and chemical sediments; and 5) understanding Earth's deep-time (pre-Holocene) climate systems. Track 2: Earth-Life Transitions: The goals of the ELT track are: 1) to address critical questions about Earth-Life interactions in deep-time through the synergistic activities of multi-disciplinary science and 2) to enable team-based interdisciplinary projects involving stratigraphy, sedimentology, paleontology, proxy development, calibration and application studies, geochronology, and climate modeling at appropriately resolved scales of time and space, to understand major linked events of environmental, climate and biotic change at a mechanistic level. Annual estimated program budget, number of awards, and average award size/duration are subject to the availability of funds and the quality of the proposals.
High-Risk Research in Biological Anthropology and Archaeology (HRRBAA)
National Science Foundation, Social, Behavioral, and Economic Sciences (SBE)
Contact: John Yellen, 703/292-8759, jyellen@nsf.gov
Solicitation number: NSF 08-523
Anthropological research may be conducted under unusual circumstances, often in distant locations. As a result the ability to conduct potentially important research may hinge on factors that are impossible to assess from a distance and some projects with potentially great payoffs may face difficulties in securing funding. This program gives small awards that provide investigators with the opportunity to assess the feasibility of an anthropological research project. The information gathered may then be used as the basis for preparing a more fully developed research program. Projects which face severe time constraints because of transient phenomena or access to materials may also be considered. Individual awards are limited to $35K and one year duration.

Geomorphology and Land Use Dynamics
National Science Foundation, Geosciences (GEO)
Contact: Richard Yuretich, 703/292-8548, ryuretic@nsf.gov
Solicitation number: NSF 15-560
This program supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that investigates quantitatively the coupling and feedback among such processes, their rates, and their relative roles, especially in the contexts of variation in climatic and tectonic influences and in light of changes due to human impact. Anticipated funding is $5M for a total of 25 to 35 standard or continuing grants per year.

OFR-NSF Partnership in Support of Research Collaborations in Finance Informatics
National Science Foundation
Contact: Vasant Honavar, vhonavar@nsf.gov
Solicitation number: NSF 13-093
NSF and OFR have established a collaboration centered on Computational and Information Processing Approaches to and Infrastructure in support of, Financial Research and Analysis and Management (hereafter referred to as CIFRAM) to identify and fund a small number of exploratory but potentially transformative CIFRAM research proposals. The collaboration enables OFR to support a broad range of financial research related to OFR’s mission, including research on potential threats to financial stability. It also assists OFR with the goal of promoting and encouraging collaboration between the government, the private sector, and academic institutions interested in furthering financial research and analysis. The collaboration enables the NSF to nurture fundamental CISE research on a variety of topics including algorithms, informatics, knowledge representation, and data analytics needed to advance the current state of the art in financial research and analysis. Proposals that involve collaborations between Computer Scientists, Mathematicians, Statisticians, and experts in Financial Risk Analysis and Management are especially welcome.

Earth Sciences: Instrumentation and Facilities (EAR/IF)
National Science Foundation
Contact: David Lambert, 703/292-8558, dlambert@nsf.gov
Solicitation number: NSF 15-516
The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division (see http://www.nsf.gov/div/index.jsp?div=EAR). EAR/IF will consider proposals for: 1) Acquisition or Upgrade of Research Equipment, 2) Development of New Instrumentation, Techniques or Software, 3) Support of National or Regional Multi-User Facilities or 4) Support for Early Career Investigators.
Archaeology Program - Doctoral Dissertation Research Improvement Awards

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

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

Conferences and Workshops in the Mathematical Sciences

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

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

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

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

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

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

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

Contact: Anne Sylvester, 703/292-4400, dbipgr@nsf.gov
Solicitation number: NSF 16-614

Condensed Matter and Materials Theory (CMMT)

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

Contact: Daryl Hess, 703/292-4942, dhess@nsf.gov
Solicitation number: NSF 16-596
Cultivating Cultures for Ethical STEM (CCE STEM) - Limited Submission

National Science Foundation


Contact: varies by Directorate

Solicitation number: NSF 15-528

Cultivating Cultures for Ethical STEM (CCE STEM) funds research projects that identify factors that are efficacious in the formation of ethical STEM researchers in all the fields of science and engineering that NSF supports. CCE STEM solicits proposals for research that explores the following: ‘What constitutes ethical STEM research and practice, and which cultural and institutional contexts promote ethical STEM research and practice and why?’ Factors one might consider include: honor codes, professional ethics codes and licensing requirements, an ethic of service and/or service learning, life-long learning requirements, curricula or memberships in organizations (e.g. Engineers without Borders) that stress social responsibility and humanitarian goals, institutions that serve under-represented groups, institutions where academic and research integrity are cultivated at multiple levels, institutions that cultivate ethics across the curriculum, or programs that promote group work, or do not grade. Do certain labs have a ‘culture of academic integrity’? What practices contribute to the establishment and maintenance of ethical cultures and how can these practices be transferred, extended to, and integrated into other research and learning settings?

Successful proposals typically have a comparative dimension, either between or within institutional settings that differ along these or other factors. The anticipated funding amount each year is $3.15M for an estimated 6-8 Standard Grants. The maximum award duration is 5 years.

Emerging Frontiers In Research And Innovation 2017 (EFRI-2017)

National Science Foundation


Contact: Sohi Rastegar, 703/292-8305, srastega@nsf.gov

Solicitation number: NSF 16-612

The Emerging Frontiers in Research and Innovation (EFRI) program of the NSF Directorate for Engineering (ENG) serves a critical role in helping ENG focus on important emerging areas in a timely manner. This solicitation is a funding opportunity for interdisciplinary teams of researchers to embark on rapidly advancing frontiers of fundamental engineering research. For this solicitation, we will consider proposals that aim to investigate emerging frontiers in the following two research areas:

1) Advancing Communication Quantum Information Research in Engineering (ACQUIRE)
2) New Light, EM (Electronic) and Acoustic Wave Propagation: Breaking Reciprocity and Time-Reversal Symmetry (NewLAW)

Data Infrastructure Building Blocks (DIBBs)

National Science Foundation


Contact: Amy Walton, 703/292-8970, DIBBsQueries@nsf.gov

Solicitation number: NSF 17-500

The NSF vision for a Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) considers an integrated, scalable, and sustainable cyberinfrastructure to be crucial for innovation in science and engineering (see www.nsf.gov/cif21). The Data Infrastructure Building Blocks (DIBBs) program is an integral part of CIF21. The DIBBs program encourages development of robust and shared data-centric cyberinfrastructure capabilities, to accelerate interdisciplinary and collaborative research in areas of inquiry stimulated by data.
Industry-University Cooperative Research Centers Program (IUCRC)

National Science Foundation


Contact: Raffaella Montelli, 703/292-2421, rmontell@nsf.gov
Solicitation number: NSF 17-516

The Industry-University Cooperative Research Centers (IUCRC) program develops long-term partnerships among industry, academe, and government. The Centers are catalyzed by an investment from the National Science Foundation (NSF) and are primarily supported by industry Center members, with NSF taking a supporting role in the development and evolution of the Center. Each Center is established to conduct research that is of interest to both the industry members and the Center faculty. An IUCRC contributes to the nation's research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an IUCRC uses international collaborations to advance these goals within the global context.

Research Coordination Networks (RCN)

National Science Foundation, Cross-Directorate


Contact: Alan Tessier, 703/292-7198, atessier@nsf.gov
Solicitation number: NSF 15-527

The goal of the RCN program is to advance a field or create new directions in research or education. Groups of investigators will be supported to communicate and coordinate their research, training and educational activities across disciplinary, organizational, geographic and international boundaries. Participating core programs in Biological Sciences (BIO), Geosciences (GEO), Social, Behavioral and Economic Sciences (SBE), Cyberinfrastructure (OCI), and Polar Programs (OPP) will accept general RCN proposals. Additional targeted tracks within the RCN programs are intended to foster linkages across directorates. The Science, Engineering and Education for Sustainability (RCN-SEES) track focuses on interdisciplinary topics that will advance sustainability science, engineering and education as an integrative approach to the challenges of adapting to environmental, social and cultural changes associated with growth and development of human populations, and attaining a sustainable energy future. The Undergraduate Biology Education (RCN-UBE) track could focus on any topic likely to lead to improved participation, learning, or assessment in undergraduate biology curricula. Individual awards for the general RCN and RCN-UBE may be up to $500K over a duration of five years. RCN-SEES awards may be up to $750K over a duration of 5 years. General (non-targeted) RCN proposals should be submitted to a participating program in BIO, GEO, SBE, OCI or OPP. Refer to the specific program website for submission dates. PIs are encouraged to discuss suitability of an RCN topic with the program.

Advanced Biomanufacturing of Therapeutic Cells (ABTC)

National Science Foundation


Contact: Carol Lucas, 703/292-4608, carlucas@nsf.gov
Solicitation number: NSF 17-502

In recent years, somatic cells as therapeutic agents have provided new treatment approaches for a number of pathological conditions that were deemed untreatable, or difficult to treat. Several successful cell therapies using T cells have been demonstrated for cancer and autoimmune diseases, while stem cell therapies have given relief for heart disease and stroke. Hundreds of clinical trials are ongoing to examine efficacy of cell therapies for a variety of other diseases including diabetes, Alzheimer’s, Parkinson’s, and Crohn’s disease. Production of therapeutic cells is currently expensive and, therefore, cost prohibitive for the large number of people who might benefit from these treatments. The overarching goal of this Advanced Biomanufacturing of Therapeutic Cells (ABTC) solicitation is to catalyze well-integrated interdisciplinary research to understand, design, and control cell manufacturing systems and processes that will enable reproducible, cost-effective, and high-quality production of cells with predictable performance for the identified therapeutic function.
Petrology and Geochemistry (CH)
National Science Foundation
Contact: Sonia Esperanca, 703/292-4735, sesperan@nsf.gov
Solicitation number: NSF 15-557

The Petrology and Geochemistry Program supports basic research on the formation of planet Earth, including its accretion, early differentiation, and subsequent petrologic and geochemical modification via igneous and metamorphic processes. Proposals in this program generally address the petrology and high-temperature geochemistry of igneous and metamorphic rocks (including mantle samples), mineral physics, economic geology, and volcanology. Proposals that are focused on the development of analytical tools, theoretical and computational models, and experimental techniques for applications by the igneous and metamorphic petrology, and high temperature geochemistry communities are also invited.

Integrative Strategies for Understanding Neural and Cognitive Systems (NSF-NCS)
National Science Foundation
Contact: Mitra Basu, 703/292-8910, mbasu@nsf.gov
Solicitation number: NSF 17-519

This program calls for innovative, integrative, boundary-crossing proposals that can best capture those opportunities. NSF seeks proposals that are bold, risky, and transcend the perspectives and approaches typical of single-discipline research efforts. This cross-directorate program is one element of NSF’s broader effort directed at Understanding the Brain, a multi-year activity that includes NSF’s participation in the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative (http://www.nsf.gov/brain/). NSF envisions a connected portfolio of transformative, integrative projects that create synergistic links across investigators and communities, yielding novel ways of tackling the challenges of understanding the brain in action and in context.

Cybersecurity Innovation for Cyberinfrastructure (CICI) - Limited Submission
National Science Foundation, Computer and Information Sciences and Engineering (CISE)
Contact: Anita Nikolich, 703/292-4551, anikolic@nsf.gov
Solicitation number: NSF 17-528

The objective of this 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. This solicitation seeks unique ways to protect scientific instruments, resources, cyberinfrastructure and data that extend beyond building better perimeters and point solutions. Funded activities under CICI should identify opportunities for student engagement as well as cybersecurity education and training. Proposals that demonstrate opportunities to engage students directly in the deployment, operation, and advancement of the CICI-funded activities are welcome.

CICI comprises two program areas:
Resilient Security Architecture for Research Cyberinfrastructure - this program encourages 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. Projects must demonstrate strong security architecture and systems security engineering generalizable across a diverse scientific workflow. Technical solutions must be driven by at least one scientific community, facility or project.

Cybersecurity Enhancement - Proposals submitted to this area should address scientific research and education needs for secure connectivity on campus and/or externally. Proposals may address the need to assess and redesign their campus security architecture to better support scientific and research data flows.

Resilient Security Architecture for Research Cyberinfrastructure awards will be supported at up to $1M total per award for up to three years. Cybersecurity Enhancement awards will be supported at up to $1M total per award for up to two years.
Major Research Instrumentation Program (MRI) - Limited Submission

This program serves to increase access to shared scientific and engineering instruments for research and research training in our Nation's institutions of higher education, not-for-profit museums, science centers and scientific/engineering research organizations. It provides organizations with opportunities to acquire major instrumentation that supports the research and research training goals of the organization and that may be used by other researchers regionally or nationally. Each MRI proposal may request support for the acquisition (Track 1) or development (Track 2) of a single research instrument for shared inter- and/or intra-organizational use. Development efforts that leverage the strengths of private sector partners to build instrument development capacity at MRI submission-eligible organizations are encouraged. The MRI program assists with the acquisition or development of a shared research instrument that is, in general, too costly and/or not appropriate for support through other NSF programs. The instrument acquired or developed is expected to be operational for regular research use by the end of the award period.

Instrument acquisition or development proposals that request funds from NSF in the range $100K to $4M may be accepted from any MRI-eligible organization. Proposals that request funds from NSF less than $100K may also be accepted from any MRI-eligible organization for the disciplines of mathematics or social, behavioral and economic sciences and from non-Ph.D.-granting institutions of higher education for all NSF-supported disciplines.

Cost-sharing of precisely 30% of the total project cost is required for Ph.D.-granting institutions of higher education and for non-degree-granting organizations. The Office of Research will coordinate cost-sharing requests for the selected campus proposals. Project groups should not seek cost-sharing at the pre-proposal stage.

Cultural Anthropology Program Doctoral Dissertation Research Improvement Grants (CA-DDRIG)

The primary objective of the Cultural Anthropology Program is to support basic scientific research on the causes, consequences, and complexities of human social and cultural variability. Anthropological research spans a wide gamut, and contemporary cultural anthropology is an arena in which diverse research traditions and methodologies are valid. Recognizing the breadth of the field's contributions to science, the Cultural Anthropology Program welcomes proposals for empirically grounded, theoretically engaged, and methodologically sophisticated research in all sub-fields of cultural anthropology. Because the National Science Foundation's mandate is to support basic research, the NSF Cultural Anthropology Program does not fund research that takes as its primary goal improved clinical practice or applied policy. The total direct costs for CA DDRIG awards may not exceed $20K.

Tectonics

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

National Science Foundation


Contact: Khershad Cooper, 703/292-7017, khcooper@nsf.gov

Solicitation number: NSF 16-604

The emphasis of the Scalable Nanomanufacturing for Integrated Systems (SNM-IS) solicitation is on research in new nano-scale manufacturing concepts and integration methods to realize complex integrated systems based on nanotechnology. The research will focus on overcoming the key scientific and engineering barriers that prevent the translation of laboratory-scale discoveries in nano-enabled integrated systems to an industrially relevant scale, reliably, affordably and within sustainability and environmental, health and safety (EHS) guidelines. The goal of the SNM-IS solicitation is to study and formulate the fundamental principles of scalable nanomanufacturing and integration for nanotechnology-based integrated systems towards the eventual manufacture of useful nano-enabled products.

Law & Social Sciences (LSS)

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


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

Solicitation number: NSF 15-514

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

Research on the Science and Technology Enterprise - Statistics and Surveys

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


Contact: Nirmala Kannankutty, 703/292-7797, nkannank@nsf.gov

Solicitation number: NSF 15-521

The National Center for Science and Engineering Statistics (NCSES) welcomes efforts by the research community to use NCSES data for research on the science and technology enterprise, to develop improved survey methodologies for NCSES surveys, to create and improve indicators of S&T activities and resources, and strengthen methodologies to analyze and disseminate S&T statistical data. NCSES invites proposals for individual or multi-investigator research projects, doctoral dissertation improvement awards, workshops, experimental research, survey research and data collection and dissemination projects under this program. Approximately 7 to 12 awards will be made.
**Designing Materials to Revolutionize and Engineer our Future (DMREF)**

Accordingly, DMREF will support activities that accelerate materials discovery and/or development by building the fundamental knowledge base needed to design and make materials with specific and desired functional properties from first principles. This will be accomplished through forming interdisciplinary teams of researchers working synergistically in a "closed loop" fashion, building a vibrant research community, leveraging Big Data science, providing ready access to materials data, and educating the future MGI workforce. Specifically, achieving this goal will involve modeling, analysis, and computational simulations, validated and verified through sample preparation, characterization, and/or device demonstration. DMREF will enable development of new data analytic tools and statistical algorithms; advanced simulations of material properties in conjunction with new device functionality; advances in predictive modeling that leverage machine learning, data mining, and sparse approximation; data infrastructure that is accessible, extensible, scalable, and sustainable; the development, maintenance, and deployment of reliable, interoperable, and reusable software for the next-generation design of materials; and new collaborative capabilities for managing large, complex, heterogeneous, distributed data supporting materials design, synthesis, and longitudinal study.

**Contact:** John Schlueter, 703/292-7766, jschluet@nsf.gov

**https://www.nsf.gov/pubs/2016/nsf16613/nsf16613.htm**

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**Designing Materials to Revolutionize and Engineer our Future (DMREF)**

DMREF is the primary program by which NSF participates in the Materials Genome Initiative (MGI) for Global Competitiveness. MGI recognizes the importance of materials science and engineering to the well-being and advancement of society and aims to "deploy advanced materials at least twice as fast as possible today, at a fraction of the cost." MGI integrates materials discovery, development, property optimization, and systems design with a shared computational framework. This framework facilitates collaboration and coordination of research activities, analytical tools, experimental results, and critical evaluation in pursuit of the MGI goals. The MGI Strategic Plan highlights four sets of goals:

1) Leading a culture shift in materials science research to encourage and facilitate an integrated team approach;
2) Integrating experimentation, computation, and theory and equipping the materials community with advanced tools and techniques;
3) Making digital data accessible
4) Creating a world-class materials science and engineering workforce that is trained for careers in academia or industry.

Awards are expected to range from $250K - $400K per year for a duration of three or four years, thus totaling $750K – $1.6M over the award period. The budget must be commensurate with the scope of the project and thoroughly justified in the proposal.

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**CISE Computing Research Infrastructure (CRI)**

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

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.

Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining)

This solicitation calls for developing innovative, scalable training programs to address the emerging needs and unresolved bottlenecks in scientific and engineering workforce development of targeted, multidisciplinary communities, at the postsecondary level and beyond, leading to transformative changes in the state of workforce preparedness for advanced CI in the short and long terms. A primary goal is to broaden CI access and adoption by (i) increasing or deepening accessibility of methods and resources of advanced CI and of computational and data science and engineering by a wide range of institutions and scientific communities with lower levels of CI adoption to date; and (ii) harnessing the capabilities of larger segments of diverse underrepresented groups. Proposals from and in partnership with the aforementioned communities are especially encouraged. For student training, a key concern is not to increase the time to degree; hence the emphasis shall be on out-of-class, informal training.

Management and Operation of the Ocean Observatories Initiative (OOI) - Limited Submission

This solicitation seeks the services of a qualified organization to provide scientific and technical management and operation of the OOI consistent with National Science Board policy and NSF’s decisions regarding NRC recommendations. The initial period of the award is intended to cover five years, plus a maximum 6 month transition period if required, with performance expected to begin in late-2017.

It is expected that proposers will explore innovative operational and management approaches to maximizing OOI data flow to the research community within the $44M operations budget level. Domestic and international partnerships that offer cost savings with academic, commercial, governmental, and/or non-profit institutions are encouraged. Rationale for proposed scope reductions of marine and/or cyberinfrastructure components, if any, to achieve annual budget limits must be provided. Proposers should draw upon guiding documents such as Sea Change, OOI science planning documents, and other documentation and community driven efforts to structure their response in terms of geographic coverage, scientific focus, technological capability, and budgetary projections. Estimated program budget and award size/duration is subject to the availability of funds but not more than $44M per year.
**Division of Integrative Organismal Systems**

National Science Foundation


Contact: Varies with research interest

Solicitation number: NSF 17-508

The Division of Integrative Organismal Systems (IOS) supports research aimed at understanding why organisms are structured the way they are and function as they do. Proposals should focus on organisms as a fundamental unit of biological organization. Principal Investigators (PIs) are encouraged to apply systems approaches that will lead to conceptual and theoretical insights and predictions about emergent organismal properties. Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, and function, physiological processes, functional morphology, symbioses, interactions of organisms with biotic and abiotic environments, and animal behavior.

1/19/2017 Full Proposal

**Spectrum Efficiency, Energy Efficiency, and Security (SpecEES): Enabling Spectrum for All**

National Science Foundation


Contact: Chengshan Xiao, 703/292-8339, cziao@nsf.gov

Solicitation number: NSF 16-616

The National Science Foundation's Directorates for Engineering (ENG) and Computer and Information Science and Engineering (CISE) are coordinating efforts to identify bold new concepts to significantly improve the efficiency of radio spectrum utilization while addressing new challenges in energy efficiency and security, thus enabling spectrum access for all users and devices, and allowing traditionally underserved Americans to benefit from wireless-enabled goods and services. The SpecEES program solicitation (pronounced "SpecEase") seeks to fund innovative collaborative research that transcends the traditional boundaries of existing programs.

1/19/2017 Letter of Intent
3/15/2017 Full Proposal

**Transdisciplinary Research in Principles of Data Science Phase I (TRIPODS)**

National Science Foundation


Contact: Nandini Kannan, 703/292-8104, nakannan@nsf.gov

Solicitation number: NSF 16-615

Transdisciplinary Research In Principles Of Data Science (TRIPODS) aims to bring together the statistics, mathematics, and theoretical computer science communities to develop the theoretical foundations of data science through integrated research and training activities. Phase I, described in this solicitation, will support the development of small collaborative Institutes. Phase II (to be described in an anticipated future solicitation, subject to availability of funds) will support a smaller number of larger Institutes, selected from the Phase I Institutes via a second competitive proposal process. All TRIPODS Institutes must involve significant and integral participation by all three of the aforementioned communities.

1/20/2017 Full Proposal

7/20/2017 Full Proposal

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

National Science Foundation


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

Solicitation number: NSF 17-506

The Biological Anthropology Program supports multifaceted research to advance scientific knowledge of human biology and ecology, including understanding of our evolutionary history and mechanisms that have shaped human and nonhuman primate biological diversity. Supported research focuses on living and fossil forms of both human and nonhuman primates, addressing time scales ranging from the short-term to evolutionary, encompassing multiple levels of analysis (e.g., molecular, organismal, population, ecosystem), conducted in field, laboratory, captive, and computational research environments, and often incorporating interactions between human biology and culture.
Long Term Research in Environmental Biology (LTREB)
National Science Foundation, Biological Sciences (BIO)
Contact: Mary Beth Von Holle, 703/292-4974, mvonholl@nsf.gov
Solicitation number: NSF 17-513
This FOA encourages the submission of proposals that generate extended time series of biological and environmental data to address ecological and evolutionary processes and resolve important issues in organismal and environmental biology. Researchers must have collected at least six years of previous data to qualify for funding, and these data must motivate the proposed research. The proposal also must present a cohesive conceptual rationale or framework for ten years of research. Awards are not to exceed $90K per year (direct and indirect costs) and $450K over a five-year effort.

Division of Environmental Biology (CORE programs) (DEB)
National Science Foundation, Biological Sciences (BIO)
Contact: 703/292-8480, debquestions@nsf.gov
Solicitation number: NSF 17-512
The Division of Environmental Biology (DEB) supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles. Research on organismal origins, functions, relationships, interactions, and evolutionary history may incorporate field, laboratory, or collection-based approaches; observational or manipulative experiments; synthesis activities; as well as theoretical approaches involving analytical, statistical, or computational modeling.

Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant
National Science Foundation
Contact: varies
Solicitation number: PA-14-016
The National Institutes of Health (NIH) will award Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grants (T35) to eligible, domestic institutions to develop and/or enhance research training opportunities for predoctoral students interested in careers in biomedical, behavioral or clinical research. Many NIH Institutes and Centers (ICs) use this NRSA program exclusively to support intensive, short-term research training experiences for health professional students (medical students, dental students, and/or students in other health-professional programs) during the summer. This program is also intended to encourage training of graduate students in the physical or quantitative sciences to pursue research careers by short-term exposure to, and involvement in, the health-related sciences. The training should be of sufficient depth to enable the trainees, upon completion of the program, to have a thorough exposure to the principles underlying the conduct of biomedical research.
Algorithms in the Field (AitF)

National Science Foundation


Contact: Tracy Kimbrel, 703/292-8910, tkimbrel@nsf.gov

Solicitation number: NSF 16-603

Algorithms in the Field encourages closer collaboration between two groups of researchers: (i) theoretical computer science researchers, who focus on the design and analysis of provably efficient and provably accurate algorithms for various computational models; and (ii) other computing and information researchers including a combination of systems and domain experts (very broadly construed – including but not limited to researchers in computer architecture, programming languages and systems, computer networks, cyber-physical systems, cyber-human systems, machine learning, artificial intelligence and its applications, database and data analytics, etc.) who focus on the particular design constraints of applications and/or computing devices. Each proposal must have at least one co-PI interested in theoretical computer science and one interested in any of the other areas typically supported by CISE. Proposals are expected to address the dissemination of both the algorithmic contributions and the resulting applications, tools, languages, compilers, libraries, architectures, systems, data, etc.

Software Infrastructure for Sustained Innovation (SSE, SSI, S2I2) - Limited Submission

The Division of Advanced Cyberinfrastructure (CISE/ACI) partners with Directorates and Offices across the Foundation to support SI2, a long-term comprehensive program focused on realizing a sustained software infrastructure that is an integral part of CIF21. The goal of this program is to catalyze and nurture the interdisciplinary processes required to support the entire software lifecycle, and result in the development of sustainable community software elements and reusable components at all levels of the software stack. The program addresses all aspects of cyberinfrastructure, from embedded sensor systems and instruments, to desktops and high-end data and computing systems, to major instruments and facilities.

The SI2 program aspires to support vibrant partnerships among academia, government, and industry researchers, including international entities, for the development and stewardship of a sustainable software infrastructure that can enhance productivity and accelerate innovation in science and engineering. This program offers 3 types of awards.

Only the Scientific Software Innovation Institutes Conceptualization Award is limited.

Scientific Software Innovation Institutes (S2I2): S2I2 awards are intended to establish long-term hubs of excellence in software infrastructure and technologies, which will serve a research community of substantial size and disciplinary breadth. S2I2 includes two subclasses of awards: Conceptualization Awards, which are planning awards aimed at organizing an interdisciplinary community and understanding their software requirements and challenges; and Implementation Awards, which will be made to implement community activities that support software infrastructure, for example, such as those developed by the conceptualization awards. Only Conceptualization proposals will be accepted for this solicitation cycle. Conceptualization proposals must also be in areas not covered by current Conceptualization and Implementation awards. For a list of awards, see Implementation of NSF Software Vision (https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504817).
Division of Physics: Investigator-Initiated Research Project (PHY)

National Science Foundation


Contact: Varies with research interest

Solicitation number: NSF 16-566

This program supports physics research and education in the nation’s colleges and universities across a broad range of physics disciplines that span scales of space and time from the largest to the smallest and the oldest to the youngest. The program is comprised of disciplinary programs covering experimental and theoretical research in the following major subfields of physics: Accelerator Science; Atomic, Molecular, Optical and Plasma Physics; Computational Physics; Elementary Particle Physics; Gravitational Physics; Integrative Activities in Physics; Nuclear Physics; Particle Astrophysics; Physics of Living Systems; Plasma Physics (supported under a separate solicitation); and Quantum Information Science. Estimated program budget is $90M and estimated number of awards is 300. See solicitation for full listing of deadlines for other areas of research.

National Robotics Initiative (NRI)

National Science Foundation


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

Solicitation number: NSF 17-518

The goal of the National Robotics Initiative (NRI) is to support fundamental research that will accelerate the development and use of robots in the United States that work beside or cooperatively with people. The original NRI program focused on innovative robotics research that emphasized the realization of collaborative robots (co-robots) working in symbiotic relationships with human partners. The NRI-2.0 program significantly extends this theme to focus on issues of scalability: how teams of multiple robots and multiple humans can interact and collaborate effectively; how robots can be designed to facilitate achievement of a variety of tasks in a variety of environments, with minimal modification to the hardware and software; how robots can learn to perform more effectively and efficiently, using large pools of information from the cloud, other robots, and other people; and how the design of the robots’ hardware and software can facilitate large-scale, reliable operation. In addition, the program supports innovative approaches to establish and infuse robotics into educational curricula, advance the robotics workforce through education pathways, and explore the social, behavioral, and economic implications of our future with ubiquitous collaborative robots. Collaboration between academic, industry, non-profit, and other organizations is encouraged to establish better linkages between fundamental science and engineering and technology development, deployment and use. Well-justified international collaborations that add significant value to the proposed research and education activities will also be considered.

Critical Resilient Interdependent Infrastructure Systems and Processes FY17 (CRISP)

National Science Foundation


Contact: Richard Fragaszy, 703/292-7011, rfragasz@nsf.gov

Solicitation number: NSF 16-618

The goals of the Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP) solicitation are to: (1) foster an interdisciplinary research community of engineers, computer and computational scientists and social and behavioral scientists, that creates new approaches and engineering solutions for the design and operation of infrastructures as processes and services; (2) enhance the understanding and design of interdependent critical infrastructure systems (ICIs) and processes that provide essential goods and services despite disruptions and failures from any cause, natural, technological, or malicious; (3) create the knowledge for innovation in ICIs so that they safely, securely, and effectively expand the range of goods and services they enable; and (4) improve the effectiveness and efficiency with which they deliver existing goods and services.

Type 1 Awards: Projects will be of 2 years in duration with a maximum total budget of $500K.

Type 2 Awards: Projects will be of 3-4 years in duration with a total budget ranging from $1M to $2.5M.
Geography and Spatial Sciences Program (GSS)

National Science Foundation
Contact: Thomas Baerwald, 703/292-7301, tbaerwal@nsf.gov
Solicitation number: NSF 14-538
This program sponsors research on the geographic distributions and interactions of human, physical, and biotic systems on the Earth. Investigations are encouraged to propose plans for research about the nature, causes, and consequences of human activity and natural environmental processes across a range of scales. Projects on a variety of topics (both domestic and international) qualify for support if they offer promise of contributing to scholarship by enhancing geographical knowledge, concepts, theories, methods, and their application to societal problems and concerns. GSS encourages projects that explicitly integrate undergraduate and graduate education into the overall research agenda. Regular research awards range from $400K - $600K.

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

National Science Foundation
Contact: Maryann Feldman, 703/292-8854, mfeldman@nsf.gov
Solicitation number: NSF 15-583
This program supports research designed to advance the scientific basis of science and innovation policy. Research funded by the program thus develops, improves and expands models, analytical tools, data and metrics that can be applied in the science policy decision making process. Among the many research topics supported are: 1) examinations of the ways in which the contexts, structures and processes of science and engineering research are affected by policy decision, 2) the evaluation of the tangible and intangible returns from investments in science and from investments in research and development, 3) the study of structures and processes that facilitate the development of usable knowledge, theories of creative processes and their transformation into social and economic outcomes, 4) the collection, analysis and visualization of new data describing the scientific and engineering enterprise. The maximum award amount is $20K.

Earth Sciences: Laboratory Technician Support (EAR/LTS)

National Science Foundation
Contact: Russell Kelz, 703/292-4747, rkelz@nsf.gov
Solicitation number: NSF 16-611
The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division (see https://www.nsf.gov/div/index.jsp?div=EAR). Under this solicitation EAR/IF will consider proposals for Laboratory Technician Support to provide for optimal and efficient operation of advanced instrumentation, analytical protocol development, and user training for Earth science research instrumentation. Support is available through grants in response to investigator-initiated proposals.

Technician support duties that promote human resource development and education are expected to be an integral part of proposals.
Earth Sciences: Laboratory Technician Support (EAR/LTS)

National Science Foundation


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

Solicitation number: NSF 17-504

The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division (see http://www.nsf.gov/div/index.jsp?div=EAR). Under this solicitation EAR/IF will consider proposals for Laboratory Technician Support to provide for optimal and efficient operation of advanced instrumentation, analytical protocol development, and user training for Earth science research instrumentation.

EarthScope

National Science Foundation, Geosciences (GEO)


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

Solicitation number: NSF 17-511

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

Algorithms for Modern Power Systems (AMPS)

National Science Foundation


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

Solicitation number: NSF 17-521

The Algorithms for Modern Power Systems (AMPS) program will support research projects to develop the next generation of mathematical and statistical algorithms for improvement of the security, reliability, and efficiency of the modern power grid. The program is a partnership between the Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF) and the Office of Electricity Delivery & Energy Reliability (OE) at the U.S. Department of Energy (DOE).
Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) is a comprehensive national initiative designed to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) discoveries and innovations focused on NSF’s commitment to diversity, inclusion, and broadening participation in these fields. NSF INCLUDES supports efforts to create networked relationships among organizations whose goals include developing talent from all sectors of society to build the STEM workforce. This initiative seeks to improve collaborative efforts aimed at enhancing the preparation, increasing the participation, and ensuring the contributions of individuals from groups that have traditionally been underrepresented and underserved in the STEM enterprise: women, persons with disabilities, African Americans/Blacks, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, Native Pacific Islanders, and persons from economically disadvantaged backgrounds. Significant advancement in the inclusion of these groups will result in a new generation of STEM talent and leadership to secure our nation’s future and long-term economic competitiveness.

This solicitation solicits proposals for Design and Development Launch Pilots: Two-year pilot projects that explore the feasibility of bold, innovative ways for solving a broadening participation challenge in STEM. Successful pilots will deliver models or prototypes, which incorporate data and measurement infrastructures, supporting collective efforts aimed at increasing the active participation of those who have been traditionally underserved and underrepresented in all STEM fields. Awards will be approximately $300k over two years.

United States-Israel Collaboration in Computer Science (USICCS)

The USICCS program is a joint program of NSF and the United States - Israel Binational Science Foundation (BSF). The program supports research projects that develop new knowledge in the areas of theory of computing; algorithm design and analysis; design, verification, and evaluation of software systems; and revolutionary computing models based on emerging scientific ideas. Through this program, NSF and BSF will jointly support collaborations among US-based researchers and Israel-based researchers. US-based researchers will receive funds from NSF to support travel to Israel to interact with their Israeli counterparts. Israel-based and US-based researchers will receive funds allowable under the BSF program described at http://www.bsf.org.il/. USICCS supports transformative research in the following areas of theoretical computer science and the foundations of software design and systems: Theoretical Computer Science and Software Foundations. Approximately $400K in total will be awarded through 6-9 awards in FY 13 pending availability of funds.

Smart and Connected Communities (S&CC)

The goal of this Smart & Connected Communities (S&CC) solicitation is to support strongly interdisciplinary, integrative research and research capacity-building activities that will improve understanding of smart and connected communities and lead to discoveries that enable sustainable change to enhance community functioning. Unless stated otherwise, for the purposes of this year’s solicitation, communities are physical, geographically-defined entities, such as towns, cities, or incorporated rural areas, consisting of various populations, with a governance structure and the ability to engage in meaningful ways with the proposed research.
Software Infrastructure for Sustained Innovation - SSE & SSI (SI2 - SSE&SSI)

National Science Foundation, Cross-Directorate

Contact: Varies with research interest

Solicitation number: NSF 16-532

NSF has established the Software Infrastructure for Sustained Innovation (SI2) program, with the overarching goal of transforming innovations in research and education into sustained software resources that are an integral part of the cyberinfrastructure. SI2 is a long-term investment focused on catalyzing new thinking, paradigms, and practices in developing and using software to understand natural, human, and engineered systems. SI2's intent is to foster a pervasive cyberinfrastructure to help researchers address problems of unprecedented scale, complexity, resolution, and accuracy by integrating computation, data, networking, observations and experiments in novel ways. NSF expects that its SI2 investment will result in robust, reliable, usable and sustainable software infrastructure that is critical to achieving the CIF21 vision and will transform science and engineering while contributing to the education of next generation researchers and creators of future cyberinfrastructure. Education at all levels will play an important role in integrating such a dynamic cyberinfrastructure into the fabric of how science and engineering is performed. The SI2 program includes three classes of awards: (1) Scientific Software Elements (SSE): Awards target small groups that will create and deploy robust software elements for which there is a demonstrated; these software elements will in turn advance one or more significant areas of science and engineering. (2) Scientific Software Integration (SSI): Awards target larger, interdisciplinary teams organized around the development and application of common software infrastructure aimed at solving common research problems faced by NSF researchers in one or more areas of science and engineering. SSI awards will result in a sustainable community software framework serving a diverse community or communities. (3) Scientific Software Innovation Institutes (S2I2): Awards will focus on the establishment of long-term hubs of excellence in software infrastructure and technologies, which will serve a research community of substantial size and disciplinary breadth.

Algorithms for Threat Detection (ATD)

National Science Foundation

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

Solicitation number: NSF 17-510

The Algorithms for Threat Detection (ATD) program will support research projects to develop the next generation of mathematical and statistical algorithms for analysis of large spatiotemporal datasets with application to quantitative models of human dynamics. The program is a partnership between the Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF) and the National Geospatial Intelligence Agency (NGA).

Dimensions of Biodiversity FY2017

National Science Foundation

Contact: Matthew Kane, 703-292-7186, dimensions@nsf.gov

Solicitation number: NSF 17-523

This campaign promotes novel integrative approaches to fill the most substantial gaps in our understanding of the diversity of life on Earth. It takes a broad view of biodiversity, and focuses on the intersection of genetic, phylogenetic, and functional dimensions of biodiversity. Successful proposals must integrate these three dimensions to understand interactions and feedbacks between and among them. While this focus complements several core programs in BIO, it differs by requiring that multiple dimensions of biodiversity be addressed simultaneously, in novel ways, to understand their synergistic roles in critical ecological and evolutionary processes, especially pertaining to the mechanisms driving the origin, maintenance, and functional roles of biodiversity.
PFE: Research Initiation in Engineering Formation (PFE: RIEF)
National Science Foundation
Contact: Elliot Douglas, 703/292-7051, edouglas@nsf.gov
Solicitation number: NSF 17-514
Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for the process of professional formation of future engineers. As such, engineering faculty are in a unique position to help address critical challenges in engineering formation. The Professional Formation of Engineers: Research Initiation in Engineering Formation (PFE: RIEF) program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the social and/or learning sciences to address difficult, boundary-spanning problems in the professional formation of engineers.

Resource Implementations for Data Intensive Research in the Social Behavioral and Economic Sciences (RIDIR)
National Science Foundation
Contact: John Yellen, 703/292-8759, jyellen@nsf.gov
Solicitation number: NSF 15-602
As part of NSF’s Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) activity, the Directorate for Social, Behavioral and Economic Sciences (SBE) seeks to develop user-friendly large-scale next-generation data resources and relevant analytic techniques to advance fundamental research in SBE areas of study. Successful proposals will, within the financial resources provided by the award, construct such databases and/or relevant analytic techniques and produce a finished product that will enable new types of data-intensive research. The databases or techniques should have significant impacts, either across multiple fields or within broad disciplinary areas, by enabling new types of data-intensive research in the SBE sciences.

Thwaites: The Future of Thwaites Glacier and its Contribution to Sea-level Rise
National Science Foundation
Contact: Paul Cutler, 703/292-4961, pcutler@nsf.gov
Solicitation number: NSF 17-505
The program will have a direct and significant impact on understanding the stability of marine ice sheets and specifically the West Antarctic Ice Sheet in the vicinity of Thwaites Glacier, and will contribute to the ice-sheet modeling community capability to simulate ice sheets and to reduce the uncertainties in sea-level projections. In addition, the program will contribute to improving risk assessments that coastal communities need for decisions about adaptation and long-range planning.
Cyber-Physical Systems (CPS)

The goal of the CPS program is to develop the core system science needed to engineer complex cyber-physical systems that people can use or interact with and depend upon. Some of these may require high-confidence or provable behaviors. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. The program also supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and testbeds.

This solicitation seeks to address foundational issues that are central across CPS applications, including, but not limited to, the following: Internet of Things (IoT); CPS Security and Privacy; System Design and Verification; Real-time Control and Adaptation; Manufacturing.

Additionally, while the CPS program welcomes proposals that address research issues across a wide range of domains in CPS, a proposal must address at least one of the following three "research target areas": Science of Cyber-Physical Systems; Technology for Cyber-Physical Systems; and/or Engineering of Cyber-Physical Systems.

Three classes of research and education projects — differing in scope and goals — will be considered through this solicitation:

Small projects may be requested for a total of up to $500K for a period of up to 3 years. They are well suited to emerging new and innovative ideas that will have high impact on the field of cyber-physical systems.

Medium projects may be requested for a total budget ranging from $500K to $1M for a period of up to four years. They are well suited to multi-disciplinary projects that accomplish clear goals requiring integrated perspectives spanning the disciplines.

Frontier projects must address clearly identified critical CPS challenges that cannot be achieved by a set of smaller projects. Funding may be requested for a total of $1M to $7M for a period of 4 to 5 years.

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

The overarching goal of INFEWS is to catalyze well-integrated interdisciplinary and convergent research to transform scientific understanding of the food and energy and water (FEW) nexus (integrating all three components rather than addressing them separately), in order to improve system function and management, address system stress, increase resilience, and ensure sustainability. 1) Significantly advance our understanding of the food-energy-water system through quantitative, predictive and computational modeling, including support for relevant cyberinfrastructure; 2) Develop real-time, cyber-enabled interfaces that improve understanding of the behavior of FEW systems and increase decision support capability; 3) Enable research that will lead to innovative solutions to critical FEW systems problems; and 4) Grow the scientific workforce capable of studying and managing the FEW system, through education and other professional development opportunities.

INFEWS proposals must integrate and engage the disciplinary science from three or more intellectually distinct disciplines that represent scientific areas typically supported by three or more of the participating NSF directorates (CISE, ENG, GEO, MPS, SBE) or two (or more) directorates and USDA/NIFA. This solicitation outlines three tracks of research: (1) FEW System Modeling; (2) Visualization and Decision support for Cyber-Human-Physical Systems at the FEW Nexus; and (3) Research to Enable Innovative Solutions. A proposal may be submitted to ONLY ONE track per competition. The maximum award for any track is $2.5M.

Private/Nonprofit Agencies
Surdna Foundation Grants
Surdna Foundation
http://www.surdna.org/what-we-fund/funding-overview.html
Contact: 212/557-0010, questions@surdna.org

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

Smith Richardson Foundation Grants
Smith Richardson Foundation
https://fdo.foundationcenter.org/grantmaker-profile?collection=grantmakers&key=RICH009
Contact: Varies with research interest

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

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

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

**Mellon Foundation Grants**
The Andrew W. Mellon Foundation
https://mellon.org/programs/
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.

Ongoing

**National Geographic Society Waitt Grants**
National Geographic Society
Contact: waitt@ngs.org

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

Ongoing

**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.

Ongoing

**Committee for Research and Exploration Grant**
National Geographic Society
http://www.nationalgeographic.com/field/grants-programs/cre-application/
Contact: cre@ngs.org

Solicitation number:
The National Geographic Society awards grants for scientific field research and exploration with both a geographical dimension and relevance to other scientific fields. Applications are generally limited to the following disciplines: anthropology, archaeology, astronomy, biology, botany, geography, geology, oceanography, paleontology, and zoology. The committee is emphasizing multidisciplinary projects that address environmental issues. Most grant amounts range from $15K to $20K and are given for one year’s research. Approximately 250 grants are awarded per year. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
FSSS Grants-in-Aid Program
The Foundation for the Scientific Study of Sexuality (FSSS)
http://www.sexscience.org/honors/fsss_grants_in_aid_program/
Contact: aletk001@umn.edu
Solicitation number:
This program provides up to $1K per grant to support scientific sexuality research in areas not likely to receive support from other sources. The money may be used for either a small project that can be completed with the help of the grant or as part of a larger study that might ultimately be funded from other sources. The competition is open to all professionals conducting research on human sexuality. Proposals involving uniquely timely research opportunities, new investigators, volunteer research teams, and actual, not pilot, projects are especially encouraged. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Waitt Foundation Grants
Waitt Foundation
http://waittfoundation.org/grant-guidelines
Contact: 858/551-4400
Solicitation number:
The Waitt Foundation supports research with the potential for widespread benefit to humanity. Areas of interest are: Ocean Conservation; Scientific Innovation; Exploration and Discovery; and Community Building. In each of these areas, the Foundation looks for strategies to create tangible, measurable benefits. Of interest are proposals that test new approaches to problem-solving, as well as projects that have been successfully tested and are ready to go full scale. If a preliminary grant request falls within the current giving guidelines and initiatives, an invitation may be extended to submit a full grant proposal. There is a $100K minimum for all grant requests. Multi-year proposals will be considered. 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.

Michelson Grants in Reproductive Biology
Found Animals Foundation
http://michelson.foundanimals.org/michelson-grants
Contact: MichelsonPrize@foundanimals.org
Solicitation number:
Multiple multi-year grants are available for research in pursuit of non-surgical sterilization products or technologies for use on dogs and cats. Investigators are required to submit a brief letter of intent containing: a proposed approach for developing a single dose non-surgical sterilant; the rationale for proposing this approach; and an overview of required research. The Foundation recommends that work described in proposals not exceed three years' duration and $250K per year. If the letter of intent is approved, investigators will be invited to submit a full grant application. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Energy Foundation Grants
The Energy Foundation
http://www.ef.org/apply-for-a-grant/
Contact: 415/561-6700, energyfund@ef.org
Solicitation number:
The Energy Foundation awards grants and takes direct initiatives in the electric power, buildings, transportation, and climate sectors in the United States. PIs are encouraged to write a brief letter of inquiry describing the proposed project, its purpose, and the amount requested. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Ongoing

**Lumina Grants**
Lumina Foundation
http://www.luminafoundation.org/grants.html
Contact: Candace Brandt, 317/951-5300
Solicitation number:
Lumina's overarching goal is to increase the higher education attainment rate of the United States to 60 percent by 2025. Lumina supports efforts to increase awareness of the benefits of higher education, improve student access to and preparedness for college, improve student success in college, and increase productivity across the higher education system. Grants vary in size by their scope. The median size of a grant is approximately $250K. The usual duration for a grant is one to three years. Unsolicited inquiries are reviewed until September, and selected applicants will be invited to send in a full proposal. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Ongoing

**Lannan Foundation Grants**
Lannan Foundation
http://www.lannan.org/lf/about/grant-guidelines/
Contact: 505/986-8160, info@lannan.org
Solicitation number:
Lannan Foundation is a family foundation dedicated to cultural freedom, diversity and creativity through projects which support exceptional contemporary artists and writers, as well as inspired Native activists in rural indigenous communities. The Foundation supports this mission by making grants to nonprofit organizations in the areas of contemporary visual art, literature, indigenous communities, and cultural freedom. Interested applicants are encouraged to contact a program director before submitting a letter of inquiry. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Ongoing

**Mathers Grants**
The G. Harold & Leila Y. Mathers Charitable Foundation
http://www.mathersfoundation.org/policies.html
Contact: 914/242-0465, admin@mathersfoundation.org
Solicitation number:
The foundation is primarily interested in supporting fundamental basic research in the life sciences. Support is provided for specific projects from established researchers at top universities and independent research institutions within the United States. Formal requests will be either discouraged or invited based on specific detailed queries sent by mail, and are processed when received. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Ongoing

**Conservation Trust Grant**
National Geographic Society
Contact: conservationtrust@ngs.org
Solicitation number:
The objective of the Conservation Trust is to support conservation activities around the world as they fit within the mission of the National Geographic Society. The trust will fund projects that contribute significantly to the preservation and sustainable use of the Earth's biological, cultural, and historical resources. Applicants are not expected to have PhDs or other advanced degrees. However, applicants must provide a record of prior research or conservation action as it pertains to the proposed project. While grant amounts vary greatly, most range from $15K to $20K. Pre-applications are accepted throughout the year. Applications are submitted by invitation only. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Environment Program
The William and Flora Hewlett Foundation
http://www.hewlett.org/programs/environment-program/
Contact: 650/234-4500
Solicitation number:
The Environment Program supports projects with goals to: conserve the Western United States and Canada for wildlife and people; slow global climate change by reducing greenhouse gas emissions; ensure that the US energy supply is clean and consumption is efficient; and address environmental problems that disproportionate affect disadvantaged communities in the San Francisco Bay Area. The Foundation accepts unsolicited letters of inquiry for its Western Conservation Program and its Energy and Climate 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.

Pollock-Krasner Grants
The Pollock-Krasner Foundation, Inc.
http://www.pkf.org/grant.html
Contact: 212/517-5400, grantapplication@pkf.org
Solicitation number:
The dual criteria for grants are recognizable artistic merit and demonstrable financial need, whether professional, personal or both. The Foundation’s mission is to aid, internationally, those individuals who have worked as professional artists over a significant period of time. The Foundation welcomes, throughout the year, applications from visual artists who are painters, sculptors and artists who work on paper, including printmakers. There are no deadlines. Grants are intended for a one-year period of time. The size of the grant ranges from $5K to $30K. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

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

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

**Swiss International Short Visits**

Swiss National Science Foundation


Contact: international@snf.ch

Solicitation number:

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

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.

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.

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.
CASIS Unsolicited Proposals
Center for the Advancement of Science in Space
http://www.iss-casis.org/Opportunities/UnsolicitedProposals.aspx
Contact: ideas@iss-casis.org
Solicitation number:
The International Space Station U.S. National Laboratory supports investigations across a broad spectrum of basic and applied research. As manager of this research platform, CASIS regularly provides solicitation opportunities in the life, physical, materials and observational sciences. However, CASIS also welcomes unsolicited proposals for research and product development that might be suitable for the National Lab. The CASIS mission is to fully utilize the National Lab, enabling cutting-edge research on station from every corner of the country. CASIS evaluates unsolicited proposals on a regular basis for scientific and economic merit and potential impact. If you have not yet secured funding for your proposed project, please note that proposals receiving high evaluation scores from this review may qualify for funding assistance from our implementation partners, and CASIS may facilitate matching of funds. 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.

Thriving Cultures Program
Surdna Foundation
http://www.surdna.org/what-we-fund/thriving-cultures.html
Contact: 212/557-0010, grants@surdna.org
Solicitation number:
Culture helps people connect over time, inviting them to build and sustain the vibrant communities they call home. Thriving cultures honor and celebrate the artistic impulse as part of community behavior and as a way to strengthen community identity and cohesion. The Surdna Foundation believes that cultural organizations, programs and projects often provide the opportunity for exploration of values and can act as catalysts for the building of just, sustainable communities. At their best, they contribute to fair access to social goods such as rights, opportunities and dignity. Currently, Surdna’s Thriving Cultures Program will accept letters of inquiry in three lines of work: 1) Teens’ Artistic Advancement, 2) Artists Engaging in Social Change, and 3) Community Driven Design. The anticipated grant size ranges from $35K to $80K annually, with duration ranging from one-to-three years. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

Environmental Management Participation Program for the U.S. Army Environmental Command (USAEC)
Oak Ridge Institute for Science and Education (ORISE)
http://see.orau.org/ProgramDescription.aspx?Program=10056
Contact: Kim Myers, 410306-9205, kim.myers@orau.org
Solicitation number:
The Army Environmental Commands mission is to lead and execute Army cleanup and environmental quality programs, providing technical expertise to enable Soldier readiness and sustainable military communities. Through the ORISE Environmental Management Participation Program, opportunities exist to participate in the following areas: environmental projects involving cultural and natural resources, restoration, compliance, conservation, pollution prevention, validation, demonstration, technology transfer, quality assurance and quality control, training, information management and reporting, and related programs. Appointments are made up to one year, full-time or part-time and are renewable up to a total of four years full-time participation for postgraduates and renewable up to a total of five years full-time participation for postdoctorates. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Ongoing

**Humanities Research Projects**

Gerda Hengel Foundation  
[http://www.gerda-henkel-stiftung.de/research_grants](http://www.gerda-henkel-stiftung.de/research_grants)

Contact:

Solicitation number:

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

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Ongoing

**Research Grants for PhD Candidates**

Horowitz Foundation for Social Policy  

Contact: info@horowitz-foundation.org

Solicitation number:

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

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Ongoing

**Practitioner Bellagio Residency**

Rockefeller Foundation  

Contact: 212/869-8500

Solicitation number:

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

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Ongoing

**Open Society Fellowship**

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

Contact: OSFellows@opensocietyfoundations.org

Solicitation number:

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

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

Artists-in-Residence Program
Yaddo
http://yaddo.org/yaddo/ApplicationGuidelines.shtml
Contact: 518/584-0746
Solicitation number:
Yaddo offers residencies to professional creative artists from all nations and backgrounds working in one or more of the following media: choreography, film, literature, musical composition, painting, performance art, photography, printmaking, sculpture, and video. Applications for residency are judged on the quality of the artist's work and professional promise. Yaddo accepts approximately 200 artists each year. Residencies vary in length – the average stay is five weeks. The minimum stay is two weeks; the maximum is eight weeks. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.

McKnight Scholar Awards
The McKnight Endowment Fund for Neuroscience
http://www.mcknight.org/neuroscience/awards/scholar.aspx
Contact: Eileen Maler, 612/333-4220, emaler@mcknight.org
Solicitation number:
The McKnight Endowment Fund for Neuroscience supports innovative research designed to bring science closer to the day when diseases of the brain and behavior can be accurately diagnosed, prevented, and treated. Applicants must demonstrate interest in solving important problems in relevant areas of neuroscience, including the translation of basic research to clinical neuroscience. Awards are given to exceptional young scientists who hold the MD and/or PhD degree and who are in the early stages of establishing an independent laboratory and research career. Traditionally, successful candidates have held faculty positions for at least one year. Up to six applicants each will receive $75K per year for three years. Before applying to foundation opportunities, please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more information and coordination purposes.
Program on Race, Ethnicity, and Immigration

Russell Sage Foundation

http://www.russellsage.org/research/funding/race-ethnicity-immigration

Contact: programs@rsage.org

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

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.

AERA Research Grant

American Educational Research Association (AERA)

http://www.aera.net/Professional-Opportunities-Funding/AERA-Funding-Opportunities/Grants-Program/Research-Grants

Contact: grantsprogram@aera.net

AERA invites education--related research proposals using NCES, NSF, and other federal databases. Research Grants are available for faculty at institutions of higher education, postdoctoral researchers, and other doctoral-level scholars. Applications are encouraged from a variety of disciplines, such as but not limited to, education, sociology, economics, psychology, demography, statistics, and psychometrics.
Collaboration Grants for Mathematicians

The Simons Foundation

https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/collaboration-grants-for-mathematicians

Contact: mps@simonsfoundation.org

Solicitation number:

The Simons Foundation invites applications for grants to mathematicians primarily for collaboration and travel. The goal of the program is to support the “mathematical marketplace” by substantially increasing collaborative contacts between mathematicians. The foundation will make a large number of collaboration grants to accomplished, active researchers in the United States who do not otherwise have access to funding that supports travel and visitors. Each collaboration grant provides $8,400 per year for five years: $6,000 per year for collaboration, travel and research expenses for the awardee; $1,000 per year in discretionary funds for the awardee’s department; and $1,400 per year in indirect costs to the awardee’s institution. The five-year grant will commence September 1, 2017, and end August 31, 2022. To be eligible to apply, an individual must

Grantees must be in a tenure-track or tenured position, or be a professor emeritus, have a current record of active research and publication in high-quality journals, and NOT currently have other grants of over $3,000 per year that allow for support for travel or visitors during the collaboration grant award period.

Innovative Development Grants

American Heart Association

http://professional.heart.org/idc/groups/ahamah-public/@wcm/@sop/@rsch/documents/downloadable/ucm_486665.pdf

Contact:

Solicitation number:

The AHA will fund two Innovative Development grants that focus identifying novel approaches to analyze data. This includes algorithms for “-omic” and phenotypic data related to cardiovascular risk and variables. Thought starters include:

1) New tools or approaches for the definition and harmonization of phenotypic data
2) New algorithms for defining new information in imaging data
3) New algorithms for wearable devices
4) New tools for voice recognition for health data
5) Online informed consent tools

The Innovative Development grants are funded at $50K year for a total cash amount of $100K.

Pardee Foundation Grants

Elsa U. Pardee Foundation

http://www.pardeefoundation.org/grants.aspx

Contact: 989/832-3691, info@pardeefoundation.org

Solicitation number:

The foundation funds research directed toward identifying new treatments or cures for cancer. The Foundation particularly encourages grant applications for a one-year period which will allow establishment of capabilities of new cancer researchers, or new cancer approaches by established cancer researchers. Project relevance to cancer detection, treatment, or cure should be clearly identified. 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 Associateship Programs
National Academy of Sciences
http://sites.nationalacademies.org/PGA/RAP/PGA_050491
Contact: 202/334-2760, rap@nas.edu
Solicitation number:
The National Research Council provides Research Associateships at participating federal laboratories and research organizations
to outstanding scientists and engineers at the postdoctoral and senior level. Applicants select an appropriate laboratory and
submit a research plan that relates to the specific opportunity at the sponsoring lab. Selected associates receive a stipend and
usually spend a year as a guest investigator. Note that not all sponsors participate in all four review deadlines. Applicants should
refer to the specific information for the laboratory to which they are applying. Before applying to foundation opportunities,
please contact Janice Hartoch Taylor, Director of Foundation Relations (janice.taylor@ia.ucsb.edu or x8406) for more
information and coordination purposes.

Honda Foundation Grants - Limited Submission
Honda Foundation
http://www.honda.com/community/applying-for-a-grant
Contact:
Solicitation number:
The American Honda Foundation supports youth education with a specific focus on the STEM (science, technology,
ingineering and mathematics) subjects in addition to the environment, job training and literacy. Their aim is to seek out those
programs and organizations with a well-defined sense of purpose, demonstrated commitment to making the best use of
available resources and a reputation for accomplishing their objectives. Awards range between $20k - $75k over a one-year
period.

Hanna H. Gray Fellows Program
Howard Hughes Medical Institute
http://www.hhmi.org/programs/hanna-h-gray-fellows-program
Contact: fellows@hhmi.org
Solicitation number:
The Hanna H. Gray Fellows Program seeks to increase diversity in the biomedical research community by recruitment and
retention of individuals from groups underrepresented in the life sciences. Through their successful careers as academic
scientists, Hanna H. Gray Fellows will move science forward and inspire the next generation of scientists from America’s diverse
talent pool. The Institute will select and support up to 15 Fellows in this first competition, which is now open for applications.
Fellows will receive funding for their postdoctoral training and, if eligible, in their early career years as independent faculty. The
program includes opportunities for career development, including mentoring and active involvement in the HHMI scientific
community. Fellows will receive a non-renewable grant of $80,000 annually for up to four years of postdoctoral training support
followed by a non-renewable grant of $270,000 annually for up to four years of the faculty phase, if program criteria are met.
### Alzheimer's Drug Discovery Foundation Funding

Alzheimer's Drug Discovery Foundation  
http://www.alzdiscovery.org/research-and-grants/applyforfunding

Contact: 212/901-7998, grants@alzdiscovery.org

Solicitation number:

The ADDF offers funding to researchers in both nonprofit and for-profit organizations. We provide applicants with a streamlined review process—the average time from letter of intent (LOI) decision to award decision is less than four months. For most RFPs, letters of intent are accepted and reviewed on a rolling basis during four cycles each year, corresponding to our four invited full proposal reviews.

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<th>Date</th>
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<tr>
<td>2/17/2017</td>
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<td>5/19/2017</td>
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<td>8/18/2017</td>
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<td>11/17/2017</td>
<td>Application</td>
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### Simons Early Career Investigator in Marine Microbial Ecology and Evolution Awards

Simons Foundation  

Contact: 646/751-1280, lifegrants@simonsfoundation.org

Solicitation number:

The purpose of these awards is to help launch the careers of outstanding investigators who use quantitative approaches to advance our understanding of marine microbial ecology and evolution. Investigators with backgrounds in different fields or with an interest in modeling or theory are encouraged to apply.

Grants will be for $180K USD per year, including indirect costs (limited to 20 percent of modified total direct costs), for a period of three years, subject to annual reviews and continuation of research in areas relevant to the purpose of this program.

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<td>2/22/2017</td>
<td>Full Proposal (Finalists Only)</td>
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### Simons Collaborations in Mathematics and the Physical Sciences

The Simons Foundation  

Contact: Elizabeth Roy, 212/524-6966, mps@simonsfoundation.org

Solicitation number:

The foundation invites applications for the Simons Collaborations in Mathematics and the Physical Sciences (MPS) program. The aim of this program is to stimulate progress on fundamental scientific questions of major importance in mathematics, theoretical physics, and theoretical computer science. Projects should address a mathematical or theoretical topic of fundamental scientific importance, where a significant new development creates a novel area for exploration or provides a new direction for progress in an established field. The questions addressed by the collaboration may be concrete or conceptual, but there should be little doubt that answering these would constitute a major scientific milestone. The project should have clearly defined initial activities and goals by which progress and its success can be measured. The support from the foundation should be seen as critical for the objectives of the project. The project should involve outstanding researchers with a range of career stages. Excellence of the scientific leadership is one of the main criteria in the selection process. The project should be organized and managed in a manner engendering a high level of collaboration. The maximum award is $2.5M per year for four years. Indirect costs are limited to 20 percent of the modified total direct costs. The foundation expects to make up to two awards in 2016.

Collaboration Directors should hold a faculty or an equivalent position at a U.S. or Canadian institution with a Ph.D. program. Letters of Intent are required and full proposals are by invitation only.

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<td>2/28/2017</td>
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**DAAD/AICGS Research Fellowship**
American Institute for Contemporary German Studies
http://www.aicgs.org/employment/daad-aicgs-research-fellowship/

Contact:

Solicitation number:

The DAAD/AICGS Research Fellowship Program, funded by a generous grant from the Deutscher Akademischer Austauschdienst (DAAD), is designed to bring scholars and specialists working on Germany, Europe, and/or transatlantic relations to AICGS for research stays of two consecutive months each. Fellowships include a monthly stipend of up to $4,725, depending on the seniority of the applicant; transportation to and from Washington; and office space at the Institute.

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

Contact:

Solicitation number:

3/1/2017 Project Grant Application
10/3/2017 Project Grant Application

**Wabash Center Grants**
Wabash College
http://www.wabashcenter.wabash.edu/grants/default.aspx

Contact: Paul Myhre, 800/655-7117, myhrep@wabash.edu

Solicitation number:

The Wabash Center provides funds for activities that enhance teaching and learning in the fields of religion and theology. It seeks to fund projects that promote a sustained conversation about pedagogy through the improvement of practical applications of teaching and learning methods, the encouragement of research and study of pedagogical issues, and the creation of a supportive environment for teaching. All proposals should maintain a reference to specific classroom practices and challenges. This FOA accepts applications for two types of grants: 1) Small Project Grants (for amounts up to $5K) have a short application process and may be submitted anytime throughout the year; and 2) Project Grants (for amounts up to $30K) require a full application process and are awarded at two different times during the 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.

3/1/2017 Letter of Inquiry (required)
4/15/2017 Full Proposal
8/1/2017 Letter of Inquiry (required)
9/15/2017 Full Proposal

**Grants (Catalogues for Contemporary Art Exhibitions and Projects)**
Elizabeth Firestone Graham Foundation
http://efgfoundation.com/guidelines.html

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

Solicitation number:

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

Terra Foundation for American Art

http://www.terraamericanart.org/what-we-offer/grant-fellowship-opportunities/academic-program-grants/

Contact: Amy Gunderson, grants@terraamericanart.org.

Solicitation number:

The foundation actively supports projects that encourage international scholarship on American art topics, as well as scholarly projects with focused theses that further research of American art in an international context. Academic program funding is available for symposia, colloquia, and convenings that advance scholarship in the field of American art (circa 1500–1980) that take place in Chicago or outside the United States, or in the United States and examine American art within an international context and/or include a significant number of international participants. Grant size varies by program area and by project.

3/1/2017  Application

**Intergenerational Mobility in the United States**

Russell Sage Foundation

https://www.russellsage.org/call-proposals-intergenerational-mobility-united-states

Contact: intergenmobility@rsage.org

Solicitation number:

The Russell Sage Foundation (RSF), the principal American foundation devoted exclusively to research in the social sciences, seeks applications for research projects that deepen our understanding of intergenerational mobility by using recently released statistics on mobility from the Equality of Opportunity Project. In this call, we encourage proposals that provide new analyses of on the mechanisms explaining geographic variation in economic mobility or the impacts of policies on economic mobility.

3/1/2017  Application

**Phillips Fund for Native American Research**

American Philosophical Society

https://amphilsoc.org/grants/phillips

Contact: 215/440-3429, LMusumeci@amphilsoc.org

Solicitation number:

The Phillips Fund of the American Philosophical Society provides grants for research in Native American linguistics, ethnohistory, and the history of studies of Native Americans, in the continental United States and Canada. Grants are not made for projects in archaeology, ethnography, psycholinguistics, or for the preparation of pedagogical materials. The committee distinguishes ethnohistory from contemporary ethnography as the study of cultures and culture change through time. The grants are intended for such costs as travel, tapes, films, and consultants' fees but not for the purchase of books or permanent equipment or to pay income tax on the award.

3/1/2017  Application

**The Dreyfus Prize in the Chemical Sciences**

The Camille and Henry Dreyfus Foundation

http://www.dreyfus.org/Prize/prizenomination.shtml

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

Solicitation number:

The prize is awarded to an individual in a selected area of chemistry to recognize exceptional and original research that has advanced the field in a major way. The prize is awarded biennially and consists of a monetary award of $250K, a medal, and a citation. The prize is open to international nominations. There is no restriction on the number of nominees from a given institution, nor is institutional approval required. Present Dreyfus Foundation Directors, Advisors, and consultants, previous Dreyfus Prize winners, and Nobel Laureates are not eligible. The 2017 topic is Theoretical and Computational Chemistry.
Resident Scholars Program

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

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

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

Solicitation number:

UC MEXUS CONACYT

The University of California Institute for Mexico and the United States (UC MEXUS) and El Consejo Nacional de Ciencia y Tecnología (CONACYT) are pleased to announce a call for proposals to provide seed funding to teams of UC and Mexican researchers with beginning projects in basic and applied collaborative research, instructional development, and public service and education projects that apply research to public issues. The primary objective of the program is to enable the establishment of new collaborative initiatives with the potential for creating permanent ties between UC campuses and Mexican institutions that will grow and continue with the support of other institutional and extramural funds. Therefore, proposals for expansion or continuation of ongoing projects, as well as dissemination of research results of earlier work through binational conferences and publications, will be considered a lower priority.

Contact:  Andrea Kaus, 951/827-3586, andrea.kaus@ucr.edu

http://ucmexus.ucr.edu/funding/grant_collaborative.html

Solicitation number: