

The Division of Science and Research distributes a weekly e-mail update regarding current grant opportunities from a variety of funders, including the National Science Foundation, NASA, National Institute of Health and others. To sign up for alerts, contact [Dr. Jan Taylor](#).

GRANT OPPORTUNITIES

Division of Science and Research

The Division of Science and Research now has an Instagram page! We would love to have pictures of you and your students doing interesting things in the lab or in the field or anywhere you are doing science or even talking about science. These should be candid shots so perfection isn't needed.

Please send a brief description of what you're doing and who is doing it along with the photo. Send your photos to amanda.ramey@wvresearch.org. If you'd like to see what we've already posted, go here: <https://www.instagram.com/wvresearch>.

The **2017 Mid-Atlantic Water Resources Conference will take place October 12-13 at the National Conservation Training Center in Shepherdstown, W.Va.** We will be hosting the event with the Water Research Institutes in PA, VA, NY, and DE. The theme for the conference is Water Research: Building Knowledge and Innovative Solutions.

The conference will bring together researchers, policy makers, regulators, state and federal agencies, private organizations and the public to share in the latest information, technologies and research relating to the Mid-Atlantic region's water resources. We are currently accepting abstracts for oral and poster presentations. The deadline to submit abstracts is June 1. Abstracts can be submitted via the conference website at www.midatlanticwrc.org.

NSF
NIH
NASA
USDA
DOD
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NIJ

National Science Foundation

The [Science of Organizations \(SoO\) program](#) funds basic research that yields a scientific evidence base for improving the design and emergence, development and deployment, and management and ultimate effectiveness of organizations of all kinds. SoO funds research that advances our fundamental understanding of how organizations develop, form and operate. Successful SoO research proposals use scientific methods to develop and refine theories, to empirically test theories and frameworks, and to develop new measures and methods. Funded research is aimed at yielding generalizable insights that are of value to the business practitioner, policy-maker and research communities. SoO welcomes any and all rigorous, scientific approaches that illuminate aspects of organizations as systems of coordination, management and governance. Full Proposal Target Date: September 5, 2017.

As specified in the Geography and Spatial Sciences Program strategic plan, the goals of the NSF [Geography and Spatial Sciences \(GSS\) Program](#) are: To promote scientific research in geography and the spatial sciences that advances theory and basic understanding and that addresses the challenges facing society; o promote the integration of geographers and spatial scientists in interdisciplinary research; To promote education and training of geographers and spatial scientists in order to enhance the capabilities of current and future generations of researchers; and To promote the development and use of scientific methods and tools for geographic research. The Geography and Spatial Sciences Program sponsors research on the geographic distributions and interactions of human, physical, and biotic systems on Earth. Investigators 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 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. Full Proposal Deadline Date: September 7, 2017.

The [Advances in Biological Informatics \(ABI\) program](#) seeks to encourage new approaches to the analysis and dissemination of biological knowledge for the benefit of both the scientific community and the broader public. The ABI program is especially interested in the development of informatics tools and resources that have the potential to advance- or transform- research in biology supported by the Directorate for Biological Sciences at the National Science Foundation. The ABI program accepts three major types of proposals: Innovation awards that seek to pioneer new approaches to the application of informatics to biological problems, Development awards that seek to provide robust cyberinfrastructure that will enable transformative biological research, and Sustaining awards that seek to support ongoing operations and maintenance of existing cyberinfrastructure that is critical for continued advancement of priority biological research. Full Proposal Deadline Date: September 8, 2017.

The [Science of Science & Innovation Policy \(SciSIP\) program](#) supports research designed to advance the scientific basis of science and innovation policy. The program funds research to develop models, analytical tools, data and metrics that can be applied in the science policy decision making process and concern the use and allocation of scarce scientific resources. For example, research proposals may develop behavioral and analytical conceptualizations, frameworks or models that have applications across the broad array of science and innovation policy challenges. Proposals also may develop methodologies to analyze science, technology and innovation data, and to usefully convey that information to a variety of audiences. Proposals that create and improve science, engineering and innovation data, including the design of new metrics and indicators, particularly proposals that demonstrate the viability of collecting and analyzing data on knowledge generation and innovation in organizations, are encouraged. The SciSIP program welcomes individual or multi-investigator research projects, doctoral dissertation research improvement grants, experimental research, and data collection and dissemination. The SciSIP program also places a high priority on interdisciplinary research and on broadening participation. It encourages proposals from junior faculty, women, and underrepresented minorities, Research Undergraduate Institutions (RUI), and EPSCoR states. For program specific guidelines on the Doctoral Dissertation Improvement Grants (DDRIGs) in SciSIP, please review the SciSIP DDRIG solicitation which may be accessed via the [SciSIP DDRIG web site](#). Full Proposal Target Date(s): September 11, 2017 and February 9, 2018.

[Return to top](#)

National Institutes of Health

[Avenir Award Program for Research on Substance Abuse and HIV/AIDS \(DP2\)](#) - Avenir means future in French, and the Avenir Award Program for Research on Substance Abuse and HIV/AIDS looks toward the future by supporting early stage investigators (ESI) proposing highly innovative studies that address NIH HIV/AIDS Research Priorities <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-15-137.html>. The Avenir Award Program for Research on Substance Abuse and HIV/AIDS will support creative individuals who wish to pursue innovative research at the nexus of substance abuse and HIV/AIDS. The nexus with drug abuse should be clearly described. The Avenir Award Program for Research on Substance Abuse and HIV/AIDS will support research approaches, both basic and clinical, which have the potential to benefit substance using populations with or at risk for HIV/AIDS by reducing HIV incidence, improving therapies for HIV, reducing the impact of comorbid conditions, and ultimately, eradicating HIV. Application Due Date(s): Nov 13, 2017; Nov 13, 2018, Nov 13, 2019.

[Exploratory/Developmental Investigations on Primary Immunodeficiency Diseases \(R21\)](#) - This Funding Opportunity Announcement (FOA) will support innovative exploratory/developmental investigations on primary immunodeficiency diseases focusing on ex vivo studies with human specimens and on studies with current or new animal models including novel clinical strategies for detecting, identifying the molecular basis of, or developing innovative therapies for primary immunodeficiency diseases. In addition, this FOA aims to encourage analyses of clinical data and samples maintained in primary immunodeficiency registries, consortium databases and repositories to address questions relevant to primary immunodeficiency research. Companion funding opportunities are [PAR-15-130](#), [R01 Research Project Grant](#) and [PA-16-372](#), [R03 Small Grant](#). Application Due Date(s): [Standard dates](#) apply.

[Centers of Excellence for Training in Glycosciences \(K12\)](#) - The objective of this research career program is to create a national Consortium that focuses on career development of the next generation of biomedical investigators in glycosciences. The ultimate goal of the Consortium is to transform and democratize glycosciences from a super-specialized research domain into the mainstream of biology and clinical translation such that glycans become an integral component of future scholars'/investigators' scientific thinking, thus creating a pathway for major scientific breakthroughs specifically in heart, lung, blood and sleep (HLBS) sciences. Letter of Intent Due Date(s): May 29, 2017. Application Due Date(s): June 29, 2017.

[Health Information Technology \(IT\) to Improve Health Care Quality and Outcomes \(R21\)](#) - This FOA issued by AHRQ invites grant applications for funding to conduct exploratory and developmental research grants (R21) for projects in

the early and conceptual stages of development that will contribute to the evidence base of how health information technology (IT) improves health care quality and outcomes. Application Due Date(s): [Standard dates](#) apply.

[Collaborative Research Projects to Enhance Applicability of Mammalian Models for Translational Research \(Collaborative R01\)](#) - The purpose of this Funding Opportunity Announcement (FOA) is to encourage applications for collaborative R01 projects from multi-disciplinary teams to expand, improve, or transform the reliability and utility of mammalian cancer and tumor models for translational research. For a linked set of collaborative R01s, each site has its own Program Director(s)/Principal Investigator(s), and the program provides a mechanism for cross-site coordination and communication. Collaborative studies are appropriate to address translational modeling research questions beyond the capacity of a single-site investigation, particularly to accommodate collaborations among sites with diverse expertise, perspectives, and contributions. With this FOA, the NCI intends to encourage submission of multidisciplinary projects devoted to demonstrating that mammalian models or their derivatives used for translational research are robust representations of human biology, are appropriate to test questions of clinical importance, and provide reliable information for patients' benefit. These practical goals contrast with the goals of many mechanistic, NCI-supported R01 projects that employ mammals, or develop and use mammalian cancer models, transplantation tumor models, or models derived from mammalian or human tissues or cells for hypothesis-testing, non-clinical research. Companion Funding Opportunity is [PAR-17-245, R01 Grant](#). Application Due Date(s): [Standard dates](#) apply.

[Extracellular Vesicles and Substance Use Disorders \(R21\)](#) - The purpose of this FOA is to encourage research projects that investigate the interplay between extracellular vesicles (EVs) and substance use disorders (SUDs). In particular, NIDA is interested in the potential utility of EVs with respect to understanding neuroplastic mechanisms relevant to SUDs or as biomarkers or therapeutics. Companion Funding Opportunity is [PAR-17-250, R01 Research Project Grant](#). Letter of Intent Due Date(s): 30 days prior to the application due date. Application Due Date(s): August 15, 2017, January 16, 2018, August 15, 2018, January 15, 2019, August 15, 2019, January 15, 2020.

[Novel Tools for Investigating Brain-derived GPCRs in Mental Health Research \(R41/R42\)](#) - This funding opportunity announcement (FOA) encourages Small Business Technology Transfer (STTR) grant applications from small business concerns (SBCs) that propose to develop technologies and approaches (i.e., novel ways to use new or existing technologies) that will enable researchers to study the structure and/or function of brain localized G-protein coupled receptor proteins (GPCRs) and/or potentially identify novel selective and specific agonists/antagonists to these receptor subtypes, with a focus on mental health function or dysfunction, including HIV-related neurocognitive disorders. Technologies and approaches aimed at known receptor subtypes or orphan receptors would be of potential interest to NIMH. Companion Funding Opportunity is [R43/R44 Small Business Innovation Research \(SBIR\) Grant - Phase I, Phase II, and Fast-Track](#). Application Due Date(s): [Standard dates](#) apply.

[Complex Technologies and Therapeutics Development for Mental Health Research and Practice \(R41/R42\)](#) - The overarching goal of the Small Business Technology Transfer (STTR) program at the National Institute of Mental Health (NIMH) is to support small businesses to develop technologies that can advance the mission of the Institute, including basic neuroscience research relevant to mental disorders, translational and clinical research of mental disorders, clinical diagnosis or treatment of mental disorders, and dissemination of evidence-based mental health care. This FOA encourages STTR grant applications to support research and development of particular priority research topics - complex technologies that require funding levels and durations beyond those reflected in the standard STTR guidelines. Companion Funding Opportunity is [PA-14-197, R43/R44 Small Business Innovation Research \(SBIR\) Grant - Phase I, Phase II, and Fast-Track](#). Application Due Date(s): [Standard dates](#) apply.

[Lab to Marketplace: Tools for Brain and Behavioral Research \(R43/R44\)](#) - This Funding Opportunity Announcement (FOA) encourages the translation of technologies for brain or behavioral research from academic and other non-small business research sectors to the marketplace. Encouraged from Small Business Concerns (SBCs) are Small Business Innovation Research (SBIR) grant applications that propose to further develop, make more robust, and make more user-friendly such technologies in preparation for commercial dissemination. It is expected that this activity will require partnerships and close collaboration between the original developers of these technologies and SBCs, which may be accomplished in any of a number of ways, including the use of multiple program directors/principle investigators. Application Due Date(s): [Standard dates](#) apply.

[Women & Sex/Gender Differences in Drug and Alcohol Abuse/Dependence \(R01\)](#) - The purpose of this Funding Opportunity Announcement (FOA) is to advance research on male-females differences in drug and alcohol abuse and addiction and on factors specific to women. Both human and animal model studies are sought. Companion Funding Opportunities are [PA-14-037, R03 Small Grant Program](#); and [PA-14-036, R21 Exploratory/Developmental Grant](#). Application Due Date(s): [Standard dates](#) apply.

[Pre-application: Stimulating Peripheral Activity to Relieve Conditions \(SPARC\): Comprehensive Functional Mapping of Neuroanatomy and Neurobiology of Organs \(OT1\)](#) - 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. Application Due Date(s): May 15, 2017 and July 14, 2017. Applications submitted after 5:00 PM local time of the applicant organization will automatically roll forward to the next due date except for the last due date, for which no late applications will be accepted.

[Return to top](#)

NASA

[Appendix E: Space Radiobiology and Human Health Countermeasures Topics](#) - To be responsive to this research solicitation, proposed studies should lead to specific products that address at least one of the three specific objectives outlined in the HERO Overview document, section B.2, Goals and Objectives. The proposed studies should lead to new knowledge within accepted scientific standards. Proposals should take into account the impact of sex, age, nutrition, stress, genetic predisposition, or sensitivity to other factors of importance. A thorough statistical section must be included which includes a power analysis for the estimate of sample size and the comparison of males and females unless compelling evidence is provided that shows that no sex differences are expected. NASA recognizes and supports the benefits of having diverse and inclusive scientific, engineering, and technology communities and fully expects that such values will be reflected in the composition of all panels and teams including peer review panels (science, engineering, and technology), proposal teams, science definition teams, and mission and instrument teams. 2017 SRHHC Step-1 Proposals Due by Apr 24, 2017. 2017 SRHHC Step-2 Proposals Due by Jul 17, 2017.

[OSIRIS REx Participating Scientists Program](#) - The objective of the OSIRIS-REx Participating Scientist Program (OREx-PSP) is to enhance the scientific return during the asteroid-operational phase of the OSIRIS-REx mission by expanding participation in the mission through new investigations that broaden and/or complement existing investigations. ORPSP17 Step-1 Proposals Due by May 04, 2017 and Step-2 Proposals are due by July 11, 2017.

[Return to top](#)

U.S. Department of Agriculture

The purpose of the [NIFA Aquaculture Research](#) program is to support the development of an environmentally and economically sustainable aquaculture industry in the U.S. by generating new science-based information and technology to address industry constraints. Results of projects supported by this program are intended to help improve the profitability of the U.S. aquaculture industry, reduce the U.S. trade deficit, increase domestic food security, provide markets for U.S.-produced products, increase domestic aquaculture business investment opportunities, and provide more jobs for rural and coastal America. Closing Date: Wednesday, May 17, 2017.

[Return to top](#)

Department of Defense

[Molecular Informatics](#) - The Defense Sciences Office (DSO) at the Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals to explore new approaches to store and process information with molecules. Abstract Due Date: April 17, 2017, 4:00 p.m. FAQ Submission Deadline: June 5, 2017, 4:00 p.m. Full Proposal Due Date: June 12, 2017, 4:00 p.m.

[Active Interpretation of Disparate Alternatives \(AIDA\)](#) (click on Related Documents tab) - The United States Government has an interest in developing and maintaining a strategic understanding of events, situations, and trends around the world, in a variety of domains. The information used on developing this understanding comes

from many disparate sources, in a variety of genres and data types, and as a mixture of structured and unstructured data. Unstructured data can include text or speech in English and a variety of other languages, as well as images, videos, and other sensor information. Even structured sources can vary in the expressiveness, semantics, and specificity of their representations. Moreover, analysis is complicated by the need to overcome the noisy, conflicting, and potentially intentionally deceptive nature of the data. Abstract Due Date: April 21, 2017, 12:00 noon (ET). Proposal Due Date: June 6, 2017, 12:00 noon (ET).

[Fiscal Year 2018 Air Force Young Investigator Research Program \(YIP\)](#) (click on Related Documents tab) - The Fiscal Year 2018 Air Force Young Investigator Research Program (YIP) intends support for scientists and engineers demonstrating exceptional ability and promise for conducting basic research who have: 1. Received a Ph.D. or equivalent degree on 1 April 2012 or later; or, (2) Received a Ph.D. or equivalent degree between 1 April 2010 and 1 April 2012, be presently in a tenure-track position and have served as a tenure-track faculty member for no more than two years prior to 01 April 2017. Examples of other interim appointments after receiving Ph.D. include: post-doctoral or research associate positions, serve as active duty service member for the U.S. Armed Forces, or maternity/paternity leave. Proposals must be received electronically through Grants.gov by Thursday, 01 Jun 2017 at 11:59 PM Eastern time to be considered. Technical or general pre-proposal inquiries and questions must be received in writing by electronic mail not later than Monday, 01 May 2017 to be considered.

[Army Research Institute for the Behavioral and Social Sciences Broad Agency Announcement for Basic Scientific Research \(2017\)](#) (click on Related Documents tab) - In addition to looking for proposals that provide for programmatic efforts to develop and evaluate psychological and behavioral theory, we strongly encourage Applicants to propose novel, state-of-the-art, and multidisciplinary approaches that address difficult problems. A key consideration in the decision to support a research proposal is that its findings are likely to stimulate new, basic behavioral research, which in turn, will lead to improved performance of Army personnel and their units. Proposals may address both traditional behavioral issues as well as psychophysiological (to include neuroscience) and network science approaches to social phenomena, memory, cognition, and personality. ARI cannot support proposals through this BAA that are primarily applied research projects (e.g., human factors studies or training program evaluations) or purely focused on physiology, psychopathology or behavioral health. Collaboration is encouraged among institutions of higher education (IHE's), non-profit organizations, commercial organizations, and the other U.S. Military Services. Funding of basic research proposals within ARI areas of interest will be determined by funding constraints and priorities set during each budget cycle. Questions regarding White Papers must be submitted in writing to maria.d.nelson.civ@mail.mil by: 1700 Eastern Daylight Time (EDT) on 28 April 2017. Questions regarding Proposals must be submitted in writing to maria.d.nelson.civ@mail.mil by: 1700 Eastern Daylight Time (EDT) on 23 June 2017. White Paper submissions will be considered until: 1700 Eastern Daylight Time (EDT) on 7 May 2017. Proposal submissions must be received by: 1700 Eastern Daylight Time (EDT) on 30 June 2017.

[Return to top](#)

Department of Interior

[White-Nose Syndrome Research Grants 2017](#) (click on Related Documents tab) - The U.S. Fish and Wildlife Service (Service) is pleased to announce the availability of research funding in 2017 to investigate issues related directly to the management of white-nose syndrome (WNS). This opportunity is open to non-governmental, university, and private researchers, as well as State and Federal agencies, and Tribes. For information on WNS and currently funded projects, please see: <http://www.whitenosesyndrome.org/>. Proposal due date: May 30, 2017.

[Return to top](#)

National Institute of Justice

[NIJ FY17 Post-conviction Testing of DNA Evidence](#) - NIJ seeks proposals for funding to assist in defraying the costs associated with post-conviction DNA testing in cases of violent felony offenses (as defined by State law) in which actual innocence might be demonstrated. Funds may be used to identify and review such post-conviction cases and to locate and analyze associated biological evidence. This supports the DOJ mission to ensure fair and impartial administration of justice for all Americans. While successful exonerations to correct injustice are notable program outcomes, the careful review, consideration and closing of cases subjected to post-conviction DNA testing that do not ultimately demonstrate innocence also work to advance the public's interest that justice has been fairly applied. Applications Due: May 9, 2017.

[Return to top](#)