West Virginia Science & Research
HIGHER EDUCATION POLICY COMMISSION

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

NSF
NIH
DOE
NASA
EPA

National Science Foundation

With an emphasis on two-year colleges, the Advanced Technological Education (ATE) program focuses on the education of technicians for the high-technology fields that drive our nation's economy. The program involves partnerships between academic institutions and industry to promote improvement in the education of science and engineering technicians at the undergraduate and secondary school levels. The ATE program supports curriculum development; professional development of college faculty and secondary school teachers; career pathways; and other activities. The program invites research proposals that advance the knowledge base related to technician education. It is expected that projects be faculty driven and that courses and programs are credit bearing although materials developed may also be used for incumbent worker education. Full Proposal Deadline Date: October 5, 2017.

SBE Postdoctoral Research Fellowships (SPRF) - The Directorate for Social, Behavioral and Economic Sciences (SBE) offers Postdoctoral Research Fellowships to encourage independence early in the Fellow's career through supporting his or her research and training goals. The research and training plan of each fellowship must address important scientific questions within the scope of the SBE Directorate and the specific guidelines in this fellowship solicitation. The SPRF program offers two tracks: (I) Fundamental Research in the SBE Sciences (SPRF-FR) and (II) Broadening Participation in the SBE Sciences (SPRF-BP). See the full text of the solicitation for a detailed description of these tracks. Full Proposal Deadline Date: October 9, 2017.

Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining) - The overarching goal of this program is to prepare, nurture and grow the national scientific workforce for creating, utilizing, and supporting advanced cyberinfrastructure (CI) that enables cutting-edge science and engineering and contributes to the Nation's overall economic competiveness and security. For the purpose of this solicitation, advanced CI is broadly defined as the resources, tools, and services for advanced computation, data handling, networking and security. The need for such workforce development programs are highlighted by the (i) National Strategic Computing Initiative announced in 2015 (NSCI), which is co-led by NSF and aims to advance the high-performance computing ecosystem and develop workforce essential for scientific discovery; (ii) 2016 National Academies' report on Future Directions for NSF Advanced Computing Infrastructure to Support U.S. Science and Engineering in 2017-2020; and (iii) Federal Big Data Research and Development Strategic Plan, which seeks to expand the community of data-empowered experts across all domains. 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. Full Proposal Deadline Date: October 9, 2017.

The Centers for Chemical Innovation (CCI) Program supports research centers focused on major, long-term fundamental chemical research challenges. CCIs that address these challenges will produce transformative research, lead to innovation, and attract broad scientific and public interest. CCIs are agile structures that can respond rapidly to emerging opportunities through enhanced collaborations. CCIs integrate research, innovation, education, broadening participation, and informal science communication. The FY 2018 Phase I CCI competition is open to projects in all fields supported by the Division of Chemistry, and must have focus and the potential for transformative impact in chemistry. NSF Chemistry particularly encourages projects in Data-Driven Discovery Science in Chemistry (D3SC). Preliminary Proposal Deadline Date: September 12, 2017 for Phase I Preliminary Proposals. Full Proposal Deadline Date: March 6, 2018 for Phase I Full Proposals, by invitation only.

NSF Astronomy and Astrophysics Postdoctoral Fellowships provide an opportunity for highly qualified, recent doctoral scientists to carry out an integrated program of independent research and education. Fellows may engage in observational, instrumental, theoretical, laboratory or archival data research in any area of astronomy or astrophysics, in combination with a coherent educational plan for the duration of the fellowship. The program supports researchers for a period of up to three years with fellowships that may be taken to eligible host institution(s) of their choice. The program is intended to recognize early-career investigators of significant potential and to provide them with experience in research and education that will establish them in positions of distinction and leadership in the community. Full Proposal Deadline Date: October 11, 2017.

Advancing Digitization of Biodiversity Collections (ADBC) - This program seeks to enhance and expand the national resource of digital data documenting existing vouchered biological and paleontological collections and to advance scientific knowledge by improving access to digitized information (including images) residing in vouchered scientific collections across the United States. The information associated with various collections of organisms, such as geographic, paleogeographic and stratigraphic distribution, environmental habitat data, phenology, information about associated organisms, collector field notes, and tissues and molecular data extracted from the specimens, is a rich resource providing the baseline from which to further biodiversity research and provide critical information about existing gaps in our knowledge of life on earth. The national resource is structured at three levels: a central coordinating organization, a series of thematic networks based on an important research theme, and the physical collections. The national resource builds upon a sizable existing national investment in curation of the physical objects in scientific collections and contributes vitally to scientific research and technology interests in the United States. It will become an invaluable tool in understanding contemporary biological issues and challenges. Full Proposal Deadline Date: October 13, 2017.

The Algebra and Number Theory program supports research in algebra, algebraic and arithmetic geometry, number theory, and representation theory. Full Proposal Target Date: October 13, 2017.

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National Institutes of Health

Novel Assays for Screening the Effects of Chemical Toxicants on Cell Differentiation (SBIR R44) - This Funding Opportunity Announcement (FOA) solicits Small Business Innovative Research (SBIR) grant applications from small business concerns (SBCs) to develop medium- to high-throughput assays to evaluate the effects of toxicants on pluripotent or induced pluripotent cells with respect to cell differentiation and the resulting differentiated cell populations. The ability to incorporate genetic diversity in these assays would be useful. These assays will provide information on mechanisms of chemically-induced biological activity, help to prioritize chemicals for more extensive toxicological evaluation, support more predictive models of in vivo biological response, and potentially inform on the role of genetic diversity in toxicological effects. Letter of Intent Due Date(s): September 4, 2017. Application Due Date(s): October 4, 2017.

NEI Center Core Grant for Vision Research (P30) - The NEI Center Core Grant combines three or more Resource and/or Service Cores for a group of R01 investigators to enhance their research, consolidate resources, avoid duplication of efforts, and/or contribute to cost effectiveness by providing a service with lower costs or higher quality than could be attempted for independent projects by several individual Program Directors/Principal Investigators (PD(s)/PI(s)). Shared resources and facilities that are accessible to a group of independently funded investigators lead to greater productivity for the separate projects and can provide instrumentation and facilities that are too costly to be maintained by an individual investigator. The design and purpose of each Center Core may vary in how it serves its users. This program is designed to enhance an institution's environment and capability to conduct vision research and to facilitate collaborative studies of the visual system and its disorders. Application Due Date(s): September 28, 2017; September 28, 2018, September 18, 2019.

Multidisciplinary Studies of HIV/AIDS and Aging (R21) - This FOA encourages exploratory/developmental research applications at the intersection of HIV and aging by addressing two overarching objectives: 1) to improve understanding of biological, clinical, and socio-behavioral aspects of aging through the lens of HIV infection and its treatment; and 2) to improve approaches for testing, prevention, and treatment of HIV infection, and management of HIV-related comorbidities, co-infections, and complications in different populations and cultural settings by applying our current understanding of aging science. Applications appropriate to this FOA should be consistent with the scientific priorities outlined by the NIH Office of AIDS Research (OAR) as described in NOT-OD-15-137. Companion Funding Opportunity is PAR-17-321, R01 Research Project Grant. Application Due Date(s): Standard dates apply.

Centers of Excellence in Ethical, Legal and Social Implications (ELSI) Research (CEER) (RM1) - The National Human Genome Research Institute (NHGRI) is soliciting grant applications for the support of Centers of Excellence in Ethical, Legal and Social Implications (ELSI) Research (CEERs). The CEER Program is designed to support the establishment of sustainable trans-disciplinary research teams with the expertise and flexibility to anticipate, conduct research on, and quickly address a range of cutting edge ethical, legal, and social issues related to genetics and genomics. The Program is intended to create new research opportunities that cross disciplinary boundaries among investigators in diverse fields, such as the genomic sciences, clinical research, clinical and health policy, ethics, law, the humanities, economics, political science, anthropology and other social sciences. In addition to conducting trans-disciplinary research, Centers will disseminate their research findings as well as facilitate the use of their findings to develop relevant research, health and public policies and practices. Finally, Centers will contribute to developing the next generation of ELSI researchers. Companion Funding Opportunity is PAR-16-345, R25 Education Projects. Letter of Intent Due Date(s): September 30, 2017. Application Due Date(s): October 31, 2017.

HIV Drug Resistance: Genotype-Phenotype-Outcome Correlations (R01) - The purpose of this Funding Opportunity Announcement is to support studies that will evaluate HIV drug resistance and its relationship to treatment success. Applications are sought proposing studies of genotype/phenotype correlations in diverse subtypes, the relationship between minority variants and treatment outcomes and on the reasons for the discordance between genotype and treatment success or failure. Laboratory evaluations of samples with clinical correlates in patients on recommended regimens are encouraged. Companion Funding Opportunity is PA-17-292, R21 Exploratory/Developmental Grant. Application Due Date(s): Standard AIDS dates apply.

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Department of Energy

RFI: Photovoltaics (PV) Innovation Roadmap - The purpose of this RFI is to solicit feedback from industry, academia, research laboratories, government agencies, and other stakeholders on issues related to PV technology pathways in order to inform SunShot's strategic planning. We greatly appreciate your time and contribution to enhance the relevance and timeliness of federally funded research. This is solely a request for information and not a Funding Opportunity Announcement (FOA). EERE is not accepting applications. Please note that all submissions must be submitted to PVRD@ee.doe.gov in order to be accepted. Submission Deadline: 7/31/2017 5:00 PM ET.

FY 2018 Research Opportunities in High Energy Physics - The High Energy Physics (HEP) program at the U.S. Department of Energy, Office of Science, hereby invites new and renewal grant applications for support of research programs in High Energy Physics. Letter of Intent Due Date: August 10, 2017, at 5 PM Eastern Time (A Letter of Intent is highly encouraged). Application Due Date: September 12, 2017, at 5 PM Eastern Time.

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NASA

ROSES 2017: Planetary Science and Technology Through Analog Research - NASA analog missions research addresses the need for integrated interdisciplinary field experiments as an integral part of preparation for future human and robotic missions. Future planetary research associated with solar system exploration requires the development of elevant, miniaturized instrumentation capable of extensive operations on lunar, asteroid, and planetary surfaces throughout the Solar System. To this end, and in collaboration with other Directorates at NASA and other agencies, this Planetary Science and Technology Through Analog Research (PSTAR) program solicits proposals for investigations focused on exploring the relevant environments on Earth in order to develop a sound technical and scientific basis to conduct planetary research on other solar system bodies. The PSTAR program is a science-driven exploration program that is expected to result in new science and operational/technological capabilities to enable the next generation of planetary exploration. PSTAR17 Step-1 Proposals Due by Jul 25, 2017 and Step-2 proposals by Oct 3, 2017.

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U.S. Environmental Protection Agency

National Priorities: Transdisciplinary Research into Detecting and Controlling Lead in Drinking Water - The U.S. Environmental Protection Agency (EPA) is seeking applications proposing to (1) identify communities that are at a high risk of experiencing the adverse health effects of lead in drinking water; (2) identify opportunities to mitigate these risks; and (3) conduct educational and outreach efforts so that water system managers and the general public are aware of these risks and opportunities. Solicitation Closing Date: August 15, 2017, 11:59:59 pm Eastern Time.

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