

From: [Jan Taylor](#)
To: [Jessica Kump](#)
Subject: Grant Opportunities for the week ending 19 April 2019
Date: Monday, April 22, 2019 3:09:52 PM

[View this email in your browser](#)



Grant Opportunities for the week ending 19 April 2019

[NSF](#)

[NIH](#)

[DOJ](#)

National Science Foundation

Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII) - With the goal of encouraging research independence

immediately upon obtaining one's first academic position after receipt of the PhD, the Directorate for Computer and Information Science and Engineering (CISE) will award grants to initiate the course of one's independent research. Understanding the critical role of establishing that independence early in one's career, it is expected that funds will be used to support untenured faculty or research scientists (or equivalent) in their first three years in a primary academic position after the PhD, but not more than a total of five years after completion of their PhD. One may not yet have received any other grants or contracts in the Principal Investigator (PI) role from any department, agency, or institution of the federal government, including from the CAREER program or any other program, post-PhD, regardless of the size of the grant or contract, with certain exceptions noted below. Serving as co-PI, Senior Personnel, Postdoctoral Fellow, or other Fellow does not count against this eligibility rule. Grants, contracts, or gifts from private companies or foundations; state, local, or tribal governments; or universities do not count against this eligibility rule. It is expected that these funds will allow the new CISE Research Initiation Initiative PI to support one or more graduate students for up to two years.

Faculty at undergraduate and two-year institutions may use funds to support undergraduate students, and may use the additional RUI designation (which requires inclusion of a RUI Impact Statement)

- see http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518 for additional information. In addition, submissions from all institutions may use funds for postdoctoral scholars, travel, and/or research equipment. Full Proposal Deadline Date: August 14, 2019.

Innovative Technology Experiences for Students and Teachers (ITEST) - As the nation continues to expand the horizon of opportunities and possibilities through advances in science, technology, engineering and mathematics (STEM), the need for a more diverse and well-prepared STEM workforce is also expanding [1]. The challenge of preparing citizens for the expanding workforce and the changing workplace environments calls for new innovations in STEM education [2]. ITEST is a research and development program that supports projects to promote PreK-12 student interests and capacities to

participate in the STEM and information and communications technology (ICT) workforce of the future. The ITEST program supports research on the design, development, implementation, and selective spread of innovative strategies for engaging students in technology-rich experiences that: (1) increase student awareness of STEM occupations; (2) motivate students to pursue appropriate education pathways to STEM occupations; or (3) develop disciplinary-based knowledge and practices, or promote critical thinking, reasoning skills, or communication skills needed for entering STEM workforce sectors. ITEST projects may adopt an interdisciplinary focus that includes multiple STEM disciplines, focus on a single discipline, or focus on one or more sub-disciplines. The ITEST program supports projects that provide evidence for factors, instructional designs, and practices in formal and informal learning environments that broaden participation of students from underrepresented groups in STEM fields and related education and workforce domains. Projects that actively engage business and industry partners to better ensure that PreK-12 experiences foster the knowledge and skill-sets needed for emerging STEM occupations are strongly encouraged. Full Proposal Deadline Date: August 14, 2019.

The [Biological Oceanography Program](#) supports fundamental research in biological oceanography and marine ecology (populations to the ecosystems) broadly defined: relationships among aquatic organisms and their interactions with the environments of the oceans or Great Lakes. Projects submitted to the program are often interdisciplinary efforts that may include participation by other OCE Programs. Full Proposal Target Date: August 15, 2019.

The [Biophotonics](#) program is part of the Engineering Biology and Health cluster, which also includes 1) Biosensing; 2) Cellular and Biochemical Engineering; 3) Disability and Rehabilitation Engineering; and 4) Engineering of Biomedical Systems. The goal of the Biophotonics program is to explore the research frontiers in photonics principles, engineering and technology that are relevant for critical problems in fields of medicine, biology and biotechnology. Fundamental engineering research and innovation in photonics is required to lay the foundations for new technologies beyond those that are mature and ready for application in medical diagnostics and therapies. Advances are needed in nanophotonics, optogenetics, contrast and targeting agents, ultra-thin probes, wide field imaging, and rapid biomarker screening. Low cost and minimally invasive medical diagnostics and therapies are key motivating

application goals. Full Proposal Window: August 16, 2018 - August 15, 2019.

The [Catalysis](#) program is part of the Chemical Process Systems cluster, which also includes 1) Electrochemical Systems; 2) Molecular Separations; and 3) Process Systems, Reaction Engineering, and Molecular Thermodynamics. The goal of the Catalysis program is to advance research in catalytic engineering science and promote fundamental understanding and the development of catalytic materials and reactions that are of benefit to society. Research in this program should focus on new basic understanding of catalytic materials and reactions, utilizing synthetic, theoretical, and experimental approaches. Target applications include fuels, specialty and bulk chemicals, environmental catalysis, biomass conversion to fuels and chemicals, conversion of greenhouse gases, and generation of solar hydrogen, as well as efficient routes to energy utilization. Heterogeneous catalysis represents the main thrust of the program. Proposals related to both gas-solid and liquid-solid heterogeneous catalysis are welcome, as are proposals that incorporate concepts from homogeneous catalysis. Full Proposal Window: August 16, 2018 - August 15, 2019.

The [Chemical Oceanography Program](#) supports research into the chemistry of the oceans and the role of the oceans in global geochemical cycles. Areas of interest include chemical composition, speciation, and transformation; chemical exchanges between the oceans and other components of the Earth system; internal cycling in oceans, seas, and estuaries; and the use of measured chemical distributions as indicators of physical, biological, and geological processes. Full Proposal Target Date: August 15, 2019.

[Cultural Anthropology Program Senior Research Awards \(CA-SR\)](#) - The primary objective of the Cultural Anthropology Program is to support fundamental, systematic anthropological research and training to increase understanding of the causes, consequences, and complexities of human social and cultural variability. The Cultural Anthropology Program welcomes proposals from researchers in all sub-fields of cultural anthropology and research at any temporal and spatial scale. Methodologies and approaches employed may include ethnographic field research, surveys, remote sensing, the collection of bio-markers, experimental research inside or outside of laboratory settings, archival research, the analysis of materials collections and extant data bases, mathematical and computational modeling, and other research tools as appropriate for the research proposed. The overarching

research goals should be to produce empirically grounded findings that will be generalizable beyond particular case studies and contribute to building a more robust anthropological science of human society and culture. Full Proposal Target Date: August 15, 2019.

The [Environmental Engineering program](#) is part of the Environmental Engineering and Sustainability cluster together with 1) the Biological and Environmental Interactions of Nanoscale Materials program and 2) the Environmental Sustainability program. The goal of the Environmental Engineering program is to support potentially transformative fundamental research that applies scientific and engineering principles to 1) prevent or minimize solid, liquid, and gaseous discharges of pollution to soil, water, and air; 2) mitigate the ecological and human-health impacts of such releases by smart/adaptive/reactive amendments or manipulation of the environment, and 3) remediate polluted environments through engineered chemical, biological, and/or geo-physical processes. Integral to achieving these goals is a fundamental understanding of the transport and biogeochemical reactivity of pollutants in the environment. Therefore, research on environmental micro/biology, environmental chemistry, and environmental geophysics may be relevant providing there is a clear connection to the application of environmental engineering to protect human and ecological health. Full Proposal Window: August 16, 2018 - August 15, 2019.

[Geoinformatics \(GI\)](#) - The Division of Earth Sciences (EAR) will consider proposals for the development of cyberinfrastructure (CI) for the Earth Sciences (Geoinformatics). EAR-supported geoinformatics opportunities will fit into three tracks: Catalytic track, Facility track, and Sustainability track. These tracks broadly support the lifecycle of geoinformatics resource development, from pilots (Catalytic) to broad implementation (Facility) to sunsetting and long-term sustainability (Sustainability). The GI Catalytic Track will support pilot geoinformatics development efforts that are intended to serve Earth Sciences research. The GI Facility Track will support awards for implementation and operation of a cyberinfrastructure resource relied upon by one or more Earth Science communities to address science questions. The GI Sustainability Track will support development and implementation of sustainable funding models to preserve data and software products of value to Earth Science research. Full Proposal Deadline Date: August 15, 2019.

The [Particulate and Multiphase Processes program](#) is part of the Transport Phenomena cluster, which includes also 1) Combustion and Fire Systems; 2) Fluid Dynamics; and 3) Thermal Transport Processes. The goal of the Particulate and Multiphase Processes (PMP) program is to support fundamental research on physico-chemical phenomena that govern particulate and multiphase systems, including flow of suspensions, drops and bubbles, granular and granular-fluid flows, behavior of micro- and nanostructured fluids, and self-assembly/directed-assembly processes that involve particulates. The program encourages transformative research to improve our basic understanding of particulate and multiphase processes with emphasis on research that demonstrates how particle-scale phenomena affect the behavior and dynamics of larger-scale systems. Although proposed research should focus on fundamentals, a clear vision is required that anticipates how results could benefit important applications in advanced manufacturing, energy harvesting, transport in biological systems, biotechnology, or environmental sustainability. Collaborative and interdisciplinary proposals are encouraged, especially those that involve a combination of experiment with theory or modeling. Proposals whose main focus is on the synthesis of particles are not encouraged. Full Proposal Window: August 16, 2018 - August 15, 2019.

The [Physical Oceanography Program](#) supports research on a wide range of topics associated with the structure and movement of the ocean, with the way in which it transports various quantities, with the way the ocean's physical structure interacts with the biological and chemical processes within it, and with interactions between the ocean and the atmosphere, solid earth and ice that surround it. Full Proposal Target Date: August 15, 2019.

The [Political Science Program](#) supports scientific research that advances knowledge and understanding of citizenship, government, and politics. Research proposals are expected to be theoretically motivated, conceptually precise, methodologically rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institutions. Full Proposal Target Date: August 15, 2019.

The [Process Systems, Reaction Engineering and Molecular Thermodynamics](#) program is part of the Chemical Process Systems cluster, which also includes 1) Catalysis; 2) Electrochemical Systems; and 3) Molecular Separations.

The goal of the Process Systems, Reaction Engineering and Molecular Thermodynamics (PRM) program is to advance fundamental engineering research on the rates and mechanisms of chemical reactions, systems engineering and molecular thermodynamics as they relate to the design and optimization of chemical reactors and the production of specialized materials that have important impacts on society. The program supports the development of advanced optimization and control algorithms for chemical processes, molecular and multi-scale modeling of complex chemical systems, fundamental studies on molecular thermodynamics, and the integration of this information into the design of complex chemical reactors. An important area supported by the program focuses on the development of energy-efficient and environmentally-friendly chemical processes and materials. Full Proposal Window: August 16, 2018 - August 15, 2019.

The [Sociology Program](#) supports basic research on all forms of human social organization -- societies, institutions, groups and demography -- and processes of individual and institutional change. The Program encourages theoretically focused empirical investigations aimed at improving the explanation of fundamental social processes. Included is research on organizations and organizational behavior, population dynamics, social movements, social groups, labor force participation, stratification and mobility, family, social networks, socialization, gender, race and the sociology of science and technology. The Program supports both original data collections and secondary data analysis that use the full range of quantitative and qualitative methodological tools. Theoretically grounded projects that offer methodological innovations and improvements for data collection and analysis are also welcomed. Full Proposal Target Date: August 15, 2019.

The [Thermal Transport Processes](#) program is part of the Transport Phenomena cluster, which includes also 1) Combustion and Fire Systems; 2) Fluid Dynamics; and 3) Particulate and Multiphase Processes. The Thermal Transport Processes (TTP) program supports engineering research projects that lay the foundation for new discoveries in thermal transport phenomena. These projects should either develop new fundamental knowledge or combine existing knowledge in thermodynamics, fluid mechanics, and heat and mass transfer to probe new areas of innovation. The program seeks transformative projects with the potential for improving our basic understanding, predictability and application of thermal transport processes. Projects should articulate the

contribution(s) to the fundamental knowledge supporting thermal transport processes and state clearly the potential application(s) impact when appropriate. Projects that combine analytical, experimental and numerical efforts, geared toward understanding, modeling and predicting thermal phenomena, are of great interest. Collaborative and interdisciplinary proposals for which the main contribution is in thermal transport processes fundamentals are also encouraged. Emphasis is placed on research that demonstrates how thermal transport phenomena affect the existence, behavior and dynamics of components and systems. Full Proposal Window: August 16, 2018 - August 15, 2019.

[Return to top](#)

National Institutes of Health

[BRAIN Initiative: Targeted BRAIN Circuits Planning Projects TargetedBCPP \(R34 - Clinical Trials Not Allowed\)](#) - This R34 FOA solicits applications that offer a limited scope of aims and an approach that will establish feasibility, validity, or other technically qualifying results that, if successful, would support, enable, and/or lay the groundwork for a potential, subsequent Targeted Brain Circuits Projects – Targeted BCP R01, as described in the companion FOA ([RFA-NS-18-009](#)). Applications should be exploratory research projects that use innovative, methodologically-integrated approaches to understand how circuit activity gives rise to mental experience and behavior. Another companion FOA is [RFA-NS-18-030](#). Letter of Intent Due Date(s): 30 days prior to the application due date. Application Due Date(s): July 15, 2019; November 6, 2019; July 1, 2020; November 10, 2020.

[Transition to Independent Environmental Health Research \(TIEHR\) Career Transition Award \(K01 Clinical Trial Not Allowed\)](#) - The Transitions to Independent Environmental Health (TIEHR) Career Award is a 3-year bridge scholar development program for newly independent faculty who intend to pursue research careers in environmental health sciences. At the conclusion of the career development period the candidates are expected to demonstrate they can successfully compete for research funding in the environmental health sciences. Companion Funding Opportunities are [PAR-19-225](#), K01 Research Scientist Development Award - Research & Training and [PAR-18-261](#), [K01](#) Research Scientist Development Award - Research & Training.

Application Due Date(s): [Standard dates](#) apply.

The purpose of the [NIOSH Conference and Scientific Meeting Cooperative Program \(U13\)](#) is to support high quality and impact scientific conferences/meetings that are relevant to NIOSH's scientific mission, program priorities, and to the public health. The mission of NIOSH is to generate new knowledge in the field of occupational safety and health and to transfer that knowledge into practice for the betterment of workers. Letter of Intent Due Date(s): Letter of Intent is due 30 days prior to application receipt date.

Application Due Date(s): [Standard dates](#) apply.

[Disability and Rehabilitation Research Projects \(DRRP\): Assistive Technology to Promote Independence and Community Living \(Research\)](#) (click on Related Documents tab) - The purpose of NIDILRR's Disability and Rehabilitation Research Projects (DRRP), which are funded through the Disability and Rehabilitation Research Projects and Centers Program, is to plan and conduct research, demonstration projects, training, and related activities, including international activities, to develop methods, procedures, and rehabilitation technology that maximize the full inclusion and integration into society, employment, independent living, family support, and economic and social self-sufficiency of individuals with disabilities, especially individuals with the most severe disabilities, and to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended (Rehabilitation Act). Under this particular DRRP priority, applicants must propose a research project that is aimed at improving technology solutions to improve independence and community living outcomes of people with disabilities – with a particular emphasis on seniors with disabilities. NIDILRR plans to make three DRRP awards under this grant competition. For this grant competition we are inviting both research applications and development applications. Please note that this forecast is for a Funding Opportunity Announcement for DRRP research projects toward technology solutions to promote independence and community living outcomes of people with disabilities – with a particular emphasis on seniors with disabilities. NIDILRR's three awards under this grant competition may include research projects, development projects, or both, depending on the ranking of applications provided by the peer review panel. Companion FOA is the Development version <https://www.grants.gov/web/grants/view-opportunity.html?oppId=313655>. Due Date for Letter of Intent: 05/23/2019. Due Date for Applications: 06/17/2019. Date for Informational Conference Call:

05/08/2019.

[HEAL Initiative: Early Phase Pain Investigation Clinical Network - Specialized Clinical Centers \(U24 Clinical Trial Not Allowed\)](#) - The purpose of this funding opportunity announcement (FOA) is to invite applications for the Specialized Clinical Centers ("hubs") of the Early Phase Pain Investigation Clinical Network (EPPIC-Net). EPPIC-Net will serve as the cornerstone of the NIH's Helping to End Addiction Long-term (HEAL) Initiative. EPPIC-Net will provide a robust and readily accessible infrastructure for carrying out in-depth phenotyping and biomarker studies in patients with specific pain conditions, and the rapid design and performance of high-quality Phase 2 clinical trials to test promising novel therapeutics for pain from partners in academia or industry. Studies will bring intense focus to patients with well-defined pain conditions and high unmet therapeutic needs. EPPIC-Net will consist of one Clinical Coordinating Center (CCC), one Data Coordinating Center (DCC) and approximately 10 specialized clinical centers ("hubs"). The purpose of this funding opportunity announcement (FOA) is to invite applications for the hubs within EPPIC-Net. A hub will typically be a regional medical center that will actively enroll subjects into clinical trials and studies performed in EPPIC-Net. Each hub should have ready access to patient populations with specific pain conditions and have expertise in characterization of that pain condition. A hub will additionally provide scientific leadership and administrative oversight to its multiple (2-10) satellite sites ("spokes"). Letter of Intent Due Date(s): 30 days prior to the application due date. Application Due Date(s): June 3, 2019.

[Evaluation of Return to School Programs for Traumatic Brain Injury](#) (click on Related Documents tab) - The Centers for Disease Control and Prevention's National Center for Injury Prevention and Control (NCIPC) is soliciting investigator-initiated research that conducts rigorous evaluation research to assess the effectiveness of Return to School programs after traumatic brain injury of all severities (e.g., mild, moderate and severe) in children. These programs have been developed to provide teachers, medical staff and parents with guidance on how best to return a child to school after a traumatic brain injury. NCIPC invites applications that propose to evaluate existing school-based programs that: have specific pathways for care for children across all TBI severity and injury mechanisms; include children from elementary through high school; have available data on academic, health, and social outcomes; and are ready for rigorous evaluation. Funds are available for applicants to conduct

such studies, in partnership with a Return to School program and a comparison school program, to help expand and advance our understanding about what works to prevent and manage traumatic brain injury. Letters of Intent are requested by March 13, 2019. Although a letter of intent is not required to apply to this NOFO, is not binding, and does not enter into the review of a subsequent application, the information that it contains allows NCIPC staff to estimate the potential review workload and plan the review. Applications are due April 30, 2019 at 5:00PM EST.

[NLM Career Development Award in Biomedical Informatics and Data Science](#)

[\(K01\)](#) - The purpose of the NLM Career Development Award (K01) in Biomedical Informatics and Data Science is to provide support and "protected time" (up to three years) for an intensive career development experience in biomedical informatics and data science leading to research independence. NLM invites K01 applications from junior investigators, who have either a health professional or research doctorate and who are in the first three years of their initial faculty positions. Candidates who received their training at one of NLM's university-based biomedical informatics training programs are encouraged to apply. Application Due Date(s): [Standard dates](#) apply.

[Implementation and Evaluation of New Health Information Technology \(IT\)](#)

[Strategies for Collecting and Using Patient-Reported Outcome \(PRO\)](#)

[Measures \(U18\)](#) - This Funding Opportunity Announcement (FOA) invites U18 cooperative agreement applications to stimulate innovative and collaborative research by utilizing new health information technology (IT) strategies for collecting and using patient-reported outcome (PRO) measures in primary care and other ambulatory care settings. Application Due Date(s): September 25, 2017, September 25, 2018, and September 26, 2019.

[Focused Technology Research and Development \(R01 - Clinical Trial Not Allowed\)](#)

[Allowed\)](#) - This initiative will support projects that focus solely on development of technologies with the potential to enable acquisition of basic biomedical knowledge. Projects should be justified in terms of technical innovation, and utility for future biomedical impact. The products of this research will be functioning prototype instruments, methods, synthetic approaches, biological products, etc., characterized adequately to be ready for first application to the type of biomedical research questions that provide the rationale for their development, but application of the proposed technology to specific biomedical

questions is considered beyond the scope of the program, should not be included, and would not be funded. 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. Projects that have significant remaining risk but are supported by early feasibility studies might be appropriate for a three year R01 proposal with reduced budget to better manage risk and investment. Projects that are well supported by feasibility studies and propose to develop fully functional prototypes might require higher budgets and a four year duration (five years for early stage investigators). Projects that primarily focus on optimization, hardening, or obvious extrapolations of established technology might be less competitive.

Companion Funding Opportunity is [PAR-19-](#)

[254](#), [R21](#) Exploratory/Developmental Grant. Application Due Date(s): [Standard dates](#) apply.

[Basic and Translational Research on Adducts in Cancer Risk Identification and Prevention \(R21 Clinical Trial Optional\)](#) - The overall objective of this Funding Opportunity Announcement (FOA) is to support innovative research on adducts to cellular macromolecules as indicators of exposures to endogenous and exogenous cancer risk factors relevant to exposures in human populations. The priority is on projects that will focus on adductomic approaches, i.e., address some aspects of the totality of adducts. The ultimate goal is to discover and characterize the utility of adductomic-based exposure indicators for cancer detection, cancer prevention, and/or assessing cancer risks. In well-justified cases, innovative studies using the adductomic approaches in the context of cancer etiology and/or gene-environment interaction research may also be appropriate. For projects intended for NIEHS support, the focus may be on innovative technology and method development. Companion Funding Opportunity is [PAR-19-251](#), [R01](#) Research Project Grant. Letter of Intent Due Date(s): 30 days prior to the application due date. Application Due Date(s): July 2, 2019; November 6, 2019; July 2, 2020; November 6, 2020; July 8, 2021; November 8, 2021.

[Environmental Influences on Aging: Effects of Extreme Weather and Disaster Events on Aging Populations \(R01 Clinical Trial Optional\)](#) - The purpose of this funding opportunity announcement is to advance our understanding of the impact of extreme weather and disaster events in aging human populations. Together with the companion FOA ([PAR-19-249](#)) that focuses on underlying

mechanisms of aging utilizing animal models, these two FOAs will help to explicate the behavioral, biological, and socioecological processes that occur during extreme weather or disaster events and that affect aging processes. Through the integration of the population studies and the companion mechanistic studies FOA, the ultimate goal is to improve the health and well-being of older adults via increased knowledge about extreme weather and disaster preparedness, response, and recovery. Letter of Intent Due Date(s): 30 days prior to the application due date. Application Due Date(s): July 8, 2019, November 4, 2019, March 9, 2020, July 7, 2020, November 9, 2020, March 8, 2021.

[Return to top](#)

Department of Justice

[Artificial Intelligence Research and Development to Support Community Supervision, FY 2019](#) - NIJ seeks proposals for innovative, investigator-initiated technology research and development (R&D) projects to apply advances in Artificial Intelligence (AI) to promote the successful reentry of offenders under community supervision. Ideally, the R&D funded through this solicitation will result in fielded AI solutions that remain in use with community supervision agencies at the completion of the project. Applications Due: May 13, 2019.

[Return to top](#)



Copyright © 2019 West Virginia Science & Research, All rights reserved.
You are receiving this email because of an interest in available grant opportunities.

Our mailing address is:
West Virginia Science & Research
1018 Kanawha Blvd E
Suite 700
Charleston, WV 25301-2825

[Add us to your address book](#)

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#).

