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Weekly Grant Opportunities Update

Jacksonville State University

September 23, 2019

Department of Health and Human Services

**Department of Health and Human Services - Administration for Children and Families
– OCC - Preschool Development Grant Birth through Five (PDG B-5) Initial Grant**

Proposal Due Date:	November 5, 2019
Expected Number of Awards:	5
Estimated Total Program Funding:	\$36,500,000
Award Ceiling:	\$10,000,000
Award Floor:	\$1,000,000
Funding Opportunity Number:	HHS-2019-ACF-OCC-TP-1599

Purpose: The Administration for Children and Families (ACF) at the Department of Health and Human Services (HHS) jointly with the Department of Education (ED) is soliciting applications from eligible states to carry out the activities of the Preschool Development Grant Birth through Five (PDG B-5). The PDG B-5 grant seeks to empower state governments to better leverage federal, state and local early care and education investments. States are not to create another early childhood program, but rather help coordinate early childhood programs and services that already exist in the state according to the identified needs of the state. This grant seeks to assist states in helping low-income and disadvantaged children enter kindergarten prepared and ready to succeed in school and to help improve the transitions from the early care and education setting to elementary school. The PDG B-5 grant aims to assist States in the coordination of their existing early childhood services and funding streams for the purpose of improving services to children birth through age six in a mixed delivery system.

Eligible applicants include states that did not receive an award under funding opportunity number HHS-2018-ACF-OCC-TP-1379. Those States are as follows: Idaho, South Dakota, Tennessee, West Virginia, Wisconsin, and Wyoming, the Territories of Puerto Rico, American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands. With the exception of Tennessee, these states are only eligible to receive this Initial Grant award under the FY 2019 PDG B-5 FOA. Tennessee, a state that previously received a Preschool Development Grant under the program that existed from 2014-2018,

must choose whether it will apply to this PDG B-5 Initial Grant announcement or to the PDG B-5 Renewal Grant FOA (HHS-2019-ACF-OCC-TP-1567). Applications from individuals (including sole proprietorships) and foreign entities are not eligible and will be disqualified from competitive review and from funding under this announcement.

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=317453>

**Department of Health and Human Services - Administration for Children and Families
– OCC - Preschool Development Grant Birth through Five (PDG B-5) Renewal Grant**

Proposal Due Date:	November 5, 2019
Expected Number of Awards:	23
Estimated Total Program Funding:	\$206,500,000
Award Ceiling:	\$15,000,000
Award Floor:	\$5,000,000
Funding Opportunity Number:	HHS-2019-ACF-OCC-TP-1567

Purpose: The Administration for Children and Families (ACF) at the Department of Health and Human Services (HHS) jointly with the Department of Education (ED) is soliciting applications from eligible states to carry out the renewal grant activities of the PDG B-5. The PDG B-5 Renewal Grants seek to empower state governments to lead the way in leveraging federal, state and local early care and education investments. These renewal grants will assist states in helping low-income and disadvantaged children to enter kindergarten prepared to succeed. In addition, these grants will help improve the transitions between early care and education settings and elementary school. The overall responsibility of the PDG B-5 Renewal Grant is to assist states in the coordination of existing early childhood funding streams, resulting in services being provided to more children birth through five in a mixed delivery system. States awarded a renewal grant may use a certain portion of funds to award subgrants to programs in a mixed delivery system across the state.

Any State awarded a Fiscal Year 2018 initial grant under funding opportunity number HHS-2018-ACF-OCC-TP-1379 are eligible to apply for funding under this announcement. In addition, Tennessee, a state that previously received a Preschool Development Grant under the program that existed from 2014-2018, may choose whether it will apply under this announcement or the PDG B-5 Initial Grant (HHS-2019-ACF-OCC-TP-1599). Applications from individuals (including sole proprietorships) and foreign entities are not eligible and will be disqualified from competitive review and from funding under this announcement.

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=310118>

**Department of Health and Human Services - National Institutes of Health - Research
Networks for the Study of Recovery Support Services for Persons Treated with
Medications for Opioid Use Disorder (R24 Clinical Trial Optional)**

Letter of Intent Due Date: October 19, 2019
Proposal Due Date: November 19, 2019
Expected Number of Awards:
Estimated Total Program Funding: \$2,000,000
Award Ceiling: \$400,000
Award Floor:
Funding Opportunity Number: RFA-DA-20-014

Purpose: This Funding Opportunity Announcement (FOA) invites applications for infrastructure support to advance the development of efficacy and/or effectiveness research on recovery support services for those who were or who are being maintained on medications for the treatment of opioid use disorder. The infrastructure support will facilitate multi-stakeholder (e.g. researchers and students, payors, providers, individuals in recovery) research networks through meetings, conferences, small-scale pilots, data development work, short-term educational opportunities (such as intensive workshops, summer institutes, or visiting scholar programs), and dissemination to encourage growth and development of specified priority areas and to build resources for advancing recovery support services research. Network applications are to support research related to the following priority recovery support services (1) peer-based recovery support, (2) recovery community centers, (3) active recovery communities, (4) recovery residences, (5) education-based recovery support services, and (6) continuing care models, or others proposed by applicants.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-20-014.html>

Department of Health and Human Services - National Institutes of Health - Limited Competition: Specialized Centers of Excellence on Environmental Health Disparities Research (P50)

Letter of Intent Due Date: 30 days prior to application due date
Proposal Due Date: November 22, 2019
Expected Number of Awards:
Estimated Total Program Funding:
Award Ceiling: \$950,000
Award Floor:
Funding Opportunity Number: RFA-MD-20-001

Purpose: This Funding Opportunity Announcement (FOA) invites applications from eligible institutions of higher education for specialized center grants to support multidisciplinary research, research capacity building, and community-engaged research activities focused on understanding and reducing or eliminating environmental health disparities, defined as inequities in population health mediated by disproportionate adverse exposures associated with the physical, chemical, social and built environments.

<https://grants.nih.gov/grants/guide/rfa-files/RFA-MD-20-001.html>

Department of Health and Human Services - National Institutes of Health - Research on biopsychosocial factors of social connectedness and isolation on health, wellbeing, illness, and recovery (R01 Clinical Trials Not Allowed)

Proposal Due Date: March 17, 2020

Expected Number of Awards:

Estimated Total Program Funding:

Award Ceiling:

Award Floor:

Funding Opportunity Number: PAR-19-373

Purpose: This funding opportunity announcement (FOA) solicits research projects that seek to model the underlying mechanisms, processes, and trajectories of social relationships and how these factors affect outcomes in health, illness, recovery, and overall wellbeing. Both animal and human subjects research projects are welcome. Researchers proposing basic science experimental studies involving human participants should consider this FOAs companion for basic experimental studies with humans.

<https://grants.nih.gov/grants/guide/pa-files/PAR-19-373.html>

Department of Health and Human Services - National Institutes of Health - Research on biopsychosocial factors of social connectedness and isolation on health, wellbeing, illness, and recovery (R01 Basic Experimental Studies with Humans Required)

Proposal Due Date: March 17, 2020

Expected Number of Awards:

Estimated Total Program Funding:

Award Ceiling:

Award Floor:

Funding Opportunity Number: PAR-19-384

Purpose: This funding opportunity announcement (FOA) solicits research projects that seek to explain the underlying mechanisms, processes, and trajectories of social relationships and how these factors affect outcomes in human health, illness, recovery, and overall wellbeing. Types of projects submitted under this FOA include studies that prospectively assign human participants to conditions (i.e., experimentally manipulate independent variables) and that assess biomedical and/or behavioral outcomes in humans to understand fundamental aspects of phenomena related to social connectedness and isolatedness. NIH considers such studies as prospective basic science studies involving human participants that meet the NIH definition of basic research and fall within the NIH definition of a clinical trials (see, e.g., NOT-OD-19-024)

Department of Transportation

Department of Transportation - DOT/Federal Transit Administration - Pilot Program for Transit-Oriented Development (TOD) Planning

Proposal Due Date:	November 18, 2019
Expected Number of Awards:	25
Estimated Total Program Funding:	\$19,100,000
Award Ceiling:	\$2,000,000
Award Floor:	\$250,000
Funding Opportunity Number:	FTA-2019-010-TPE

Purpose: Notice of Funding Opportunity for the Pilot Program for Transit-Oriented Development (TOD) Planning. The Federal Transit Administration (FTA) announces the availability of approximately \$19.19 million in Pilot Program for TOD Planning funding to support comprehensive planning associated with new fixed guideway and core capacity improvement projects. FTA may award amounts ranging from \$250,000 to \$2,000,000.

The Pilot Program for TOD Planning provides funding to local communities to integrate land use and transportation planning in new fixed guideway and core capacity transit project corridors. As required by statute, any comprehensive planning funded through the pilot program must examine ways to improve economic development and ridership, foster multimodal connectivity and accessibility, improve transit access for pedestrian and bicycle traffic, engage the private sector, identify infrastructure needs, and enable mixed-use development near transit stations. The statute also requires that the planning work be associated with a new fixed guideway or core capacity transit project as defined in Federal transit statute (49 USC 5309(a); also see the NOFO for the definitions).

Consistent with statutory direction, FTA is seeking comprehensive planning projects covering an entire transit capital project corridor, rather than proposals that involve planning for individual station areas or only a small section of the corridor. To ensure that planning work reflects the needs and aspirations of the local community and results in concrete, specific deliverables and outcomes, FTA is requiring that transit project sponsors partner with entities with land use planning authority in the transit project corridor.

Applicants under the TOD Pilot Program must be FTA grantees (i.e., existing direct and designated recipients) as of the publication date of this NOFO. An applicant must either be the project sponsor of an eligible transit capital project as defined in section C, subsection 3 of this NOFO or an entity with land use planning authority in an eligible transit capital project corridor. Except in cases where an applicant is both the sponsor of an eligible transit project and has land use authority in at least a portion of the transit project corridor, the transit project sponsor and at least one entity in the project corridor with land use planning authority must partner on the proposed comprehensive planning project. Documentation of this partnership must be included with the application; see section D,

subsection 2 of this NOFO for further information. Only one application per transit capital project corridor may be submitted to FTA. Multiple applications submitted for a single transit capital project corridor indicate that partnerships are not in place and FTA will reject all of the applications.

<https://www.grants.gov/web/grants/view-opportunity.html?oppId=320707>

National Science Foundation

National Science Foundation - The Science of Learning and Augmented Intelligence Program

Proposal Due Date: January 15, 2020

Expected Number of Awards:

Estimated Total Program Funding:

Award Ceiling:

Award Floor:

Funding Opportunity Number: PD-19-127Y

Purpose: The Science of Learning and Augmented Intelligence Program (SL) supports potentially transformative research that develops basic theoretical insights and fundamental knowledge about principles, processes and mechanisms of learning, and about augmented intelligence - how human cognitive function can be augmented through interactions with others, contextual variations, and technological advances. The program supports research addressing learning in individuals and in groups, across a wide range of domains at one or more levels of analysis including: molecular/cellular mechanisms; brain systems; cognitive, affective, and behavioral processes; and social/cultural influences. The program also supports research on augmented intelligence that clearly articulates principled ways in which human approaches to learning and related processes, such as in design, complex decision-making and problem-solving, can be improved through interactions with others, and/or the use of artificial intelligence in technology. These could include ways of using knowledge about human functioning to improve the design of collaborative technologies that have capabilities to learn to adapt to humans. For both aspects of the program, there is special interest in collaborative and collective models of learning and/or intelligence that are supported by the unprecedented speed and scale of technological connectivity. This includes emphasis on how people and technology working together in new ways and at scale can achieve more than either can attain alone. The program also seeks explanations for how the emergent intelligence of groups, organizations, and networks intersects with processes of learning, behavior and cognition in individuals. Projects that are convergent and/or interdisciplinary may be especially valuable in advancing basic understanding of these areas, but research within a single discipline or methodology is also appropriate. Connections between proposed research and specific technological, educational, and workforce applications will be considered as valuable broader impacts but are not necessarily central to the intellectual merit of proposed research. The program supports a variety of approaches including: experiments, field studies, surveys, computational modeling, and artificial intelligence/machine learning methods.

<https://www.grants.gov/web/grants/view-opportunity.html?opId=320753>

National Science Foundation - Law & Science

Proposal Due Date: January 15, 2020
Expected Number of Awards:
Estimated Total Program Funding: \$5,500,000
Award Ceiling:
Award Floor:
Funding Opportunity Number: 19-612

Purpose: The Law & Science Program considers proposals that address social scientific studies of law and law-like systems of rules, as well as studies of how science and technology are applied in legal contexts. The Program is inherently interdisciplinary and multi-methodological. Successful proposals describe research that advances scientific theory and understanding of the connections between human behavior and law, legal institutions, or legal processes; or the interactions of law and basic sciences, including biology, computer and information sciences, STEM education, engineering, geosciences, and math and physical sciences. Scientific studies of law often approach law as dynamic, interacting with multiple arenas, and with the participation of multiple actors. Fields of study include many disciplines, and often address problems including, though not limited, to:

Crime, Violence, and Policing

Cyberspace

Economic Issues

Environmental Science

Evidentiary Issues

Forensic Science

Governance and Courts

Human Rights and Comparative Law

Information Technology

Legal and Ethical Issues related to Science

Legal Decision Making

Legal Mobilization and Conceptions of Justice

Litigation and the Legal Profession

Punishment and Corrections

Regulation and Facilitation of Biotechnology (e.g., Gene Editing, Gene Testing, Synthetic Biology) and

Other Emerging Sciences and Technologies

Use of Science in the Legal Processes

<https://www.grants.gov/web/grants/view-opportunity.html?opId=320839>

**National Science Foundation - Transdisciplinary Research in Principles of Data Science
Phase II**

Proposal Due Date: February 18, 2020

Expected Number of Awards:	4
Estimated Total Program Funding:	\$20,000,000
Award Ceiling:	\$15,000,000
Award Floor:	\$5,000,000
Funding Opportunity Number:	19-604

Purpose: 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 solicitation NSF 16-615, supported the development of small collaborative Institutes. Phase II 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.

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=320798>

National Science Foundation - Science of Science - Doctoral Dissertation Research Improvement Grants

Proposal Due Date:	February 10, 2020
Expected Number of Awards:	5
Estimated Total Program Funding:	\$100,000
Award Ceiling:	
Award Floor:	
Funding Opportunity Number:	19-611

Purpose: The Science of Science: Discovery, Communication, and Impact (SOS:DCI) program is designed to understand the scientific research enterprise and increase the public value of scientific activity. The program pursues this goal by supporting basic research in three fundamental areas:

*How to increase the rate of socially beneficial discovery;
How to improve science communication outcomes; and
How to expand the societal benefits of scientific activity.*

TheSOS: DCI program, which builds upon the former SciSI program, funds research that builds theoretical and empirical understandings of these three areas. With this goal in mind, proposals should:

Develop data, models, indicators, and associated analytical tools that constitute and enable transformative advances rather than incremental change.

Identify ethical challenges and mitigate potential risks to people and institutions.

Provide credible metrics and rigorous assessments of their proposed project's impact.

Include robust data management plans, preregistration plans where appropriate, and related commitments that increase the usability, validity, and reliability of scientific materials.

Doctoral Dissertation Research Improvement Grants (DDRIGs) The Doctoral Dissertation Research Improvement Grants funding opportunity is designed to improve the quality of dissertation research. DDRIG awards provide funds for items not normally available through the student's university such as enabling doctoral students to undertake significant data-gathering projects and to conduct field research in settings away from their campus. DDRIGs do not provide cost-of-living or other stipends or tuition. Outstanding DDRIG proposals specify how the knowledge to be created advances science of science.

<https://www.grants.gov/web/grants/view-opportunity.html?opId=320858>

National Science Foundation - Science of Science: Discovery, Communication, and Impact

Proposal Due Date: February 10, 2020

Expected Number of Awards:

Estimated Total Program Funding:

Award Ceiling:

Award Floor:

Funding Opportunity Number: PD-19-125Y

Purpose: The Science of Science: Discovery, Communication, and Impact (SoS:DCI) program is designed to increase the public value of scientific activity. The program pursues this goal by supporting basic research in three fundamental areas:

How to increase the rate of socially beneficial discovery;

How to improve science communication outcomes; and

How to expand the societal benefits of scientific activity.

The SoS: DCI program, which builds upon the former Science of Science & Innovation Policy (SciSIP) program, funds research that builds theoretical and empirical understandings of these three areas. With this goal in mind, proposals should:

Develop data, models, indicators, and associated analytical tools that constitute and enable transformative advances rather than incremental change.

Identify ethical challenges and mitigate potential risks to people and institutions.

Provide credible metrics and rigorous assessments of their proposed project's impact.

Include robust data management plans with the goal to increase the usability, validity, and reliability of scientific materials. See PAPPG Chapter II.C.2.j and Data Management for NSF SBE Directorate Proposals and Awards for additional information

(https://www.nsf.gov/sbe/DMP/SBE_DataMgmtPlanPolicy_RevisedApril2018.pdf).

<https://www.grants.gov/web/grants/view-opportunity.html?opId=320836>

National Science Foundation - Ethical and Responsible Research

Proposal Due Date: February 24, 2020

Expected Number of Awards: 8
Estimated Total Program Funding: \$3,550,000
Award Ceiling:
Award Floor:
Funding Opportunity Number: 19-609

Purpose: Ethical and Responsible Research (ER2) funds research projects that identify (1) factors that are effective in the formation of ethical STEM researchers and (2) approaches to developing those factors in all STEM fields that NSF supports. ER2 solicits proposals for research that explores the following: 'What constitutes responsible conduct for research (RCR), and which cultural and institutional contexts promote ethical STEM research and practice and why?' 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?' 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 responsible conduct for research, 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. Successful proposals typically have a comparative dimension, either between or within institutional settings that differ along these or among other factors, and they specify plans for developing interventions that promote the effectiveness of identified factors. ER2 research projects will use basic research to produce knowledge about what constitutes or promotes responsible or irresponsible conduct of research, and how to best instill this knowledge into researchers and educators at all career stages. In some cases, projects will include the development of interventions to ensure ethical and responsible research conduct. Proposals for awards from minority-serving institutions (e.g., Tribal Colleges and Universities, Historically Black Colleges and Universities, Hispanic-Serving Institutions, Alaska Native or Native Hawaiian Serving Institutions), women's colleges, and organizations primarily serving persons with disabilities are strongly encouraged. Proposals including international collaborations are encouraged when those efforts enhance the merit of the proposed work by incorporating unique resources, expertise, facilities or sites of international partners. If possible, the U.S. team's international counterparts should obtain funding through other sources.

<https://www.grants.gov/web/grants/view-opportunity.html?opId=320838>

National Science Foundation - Human Networks and Data Science - Infrastructure
Proposal Due Date: February 24, 2020
Expected Number of Awards: 4
Estimated Total Program Funding: \$4,500,000
Award Ceiling:
Award Floor:
Funding Opportunity Number: 19-608

Purpose: 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. Human Networks and Data Science (HNDS) is a two-track program. It supports research and infrastructure that uses data science to advance understanding of a full range of human networks. HNDS research will identify ways in which dynamic, distributed, and heterogeneous data can provide novel answers to fundamental questions about individual and group behavior. HNDS is especially interested in proposals that leverage data-rich insights about human networks to support improved health, prosperity, and security. HNDS has two components: (1) Human Networks and Data Science – Infrastructure (HNDS-I). Development of data resources and relevant analytic techniques that support fundamental SBE research in the context of human networks. For FY 2020, this research is funded through this solicitation, which replaces the previous Resource Implementations for Data Intensive Research in the Social, Behavioral and Economic Sciences (RIDIR) solicitation. (2) Human Networks and Data Science – Core Research (HNDS-R). Core research proposals use data science to generate novel understandings of human networks – particularly understandings that can improve the outcomes of significant societal opportunities and challenges. HNDS encourages core research proposals that make innovative use of HNDS infrastructure (formerly RIDIR). The HNDS - Infrastructure solicitation is currently accepting proposals. A subsequent funding announcement for HNDS Core Research will be released in 2020, pending availability of funding.

<https://www.grants.gov/web/grants/view-opportunity.html?opId=320856>

National Science Foundation - Mid-Scale Innovations Program in Astronomical Sciences

Proposal Due Date:	May 6, 2020
Expected Number of Awards:	5
Estimated Total Program Funding:	\$30,000,000
Award Ceiling:	\$30,000,000
Award Floor:	\$4,000,000
Funding Opportunity Number:	19-605

Purpose: A vigorous Mid-Scale Innovations Program (MSIP) was recommended by the 2010 Astronomy and Astrophysics Decadal Survey, citing "many highly promising projects for achieving diverse and timely science." As described in this solicitation, the Division of Astronomical Sciences conducts a mid-scale program to support a variety of astronomical activities within a cost range up to \$30M. This program is formally divided into four subcategories: 1) limited term, self-contained science projects; 2)

longer term mid-scale facilities; 3) development investments for future mid-scale and large-scale projects; and 4) community open access capabilities. MSIP will emphasize both strong scientific merit and a well-developed plan for student training and involvement of a diverse workforce in instrumentation, facility development, or data management.

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=320837>

National Science Foundation - NSF Dynamic Language Infrastructure - NEH Documenting Endangered Languages

Proposal Due Date:	September 15, 2020
Expected Number of Awards:	30
Estimated Total Program Funding:	\$4,800,000
Award Ceiling:	
Award Floor:	
Funding Opportunity Number:	19-606

Purpose: This funding partnership between the National Science Foundation (NSF) and the National Endowment for the Humanities (NEH) supports projects to develop and advance knowledge concerning dynamic language infrastructure in the context of endangered human languages—languages that are both understudied and at risk of falling out of use. Made urgent by the imminent loss of roughly half of the approximately 7000 currently used languages, this effort aims to exploit advances in information technology to build computational infrastructure for endangered language research. 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, documentation and analysis, and archiving of endangered language data, including the preparation of lexicons, grammars, text samples, and databases. Funding will be available in the form of one- to three-year senior research grants, fellowships from six to twelve months, and conference proposals. Note: a conference proposal should generally be submitted at least a year in advance of the scheduled date of the conference. For additional information about creating and submitting conference proposals, please refer to Chapter II. D.7 of the NSF Proposal & Award Policies & Procedures Guide.

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=320854>

National Science Foundation - Nanoscale Interactions

Proposal Due Date:	Proposals accepted anytime
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	
Award Floor:	
Funding Opportunity Number:	PD-20-1179

Purpose: The Nanoscale Interactions program is part of the Environmental Engineering and Sustainability cluster, which also includes: 1) the Environmental Engineering program; and 2) the Environmental Sustainability program.

The goal of the Nanoscale Interactions program is to support research to advance fundamental and quantitative understanding of the interactions of nanomaterials and nanosystems with biological and environmental media.

Materials of interest include one- to three-dimensional nanostructures, heterogeneous nano-bio hybrid assemblies, dendritic and micelle structures, quantum dots, and other nanoparticles. Such nanomaterials and systems frequently exhibit novel physical, chemical, photonic, electronic, and biological behavior as compared to the bulk scale. Collaborative and interdisciplinary proposals are encouraged.

Research areas supported by the program include:

Characterization of interactions at the interfaces of nanomaterials and nanosystems, including both simple nanoparticles and complex and/or heterogeneous composites and nanosystems, with surrounding biological and environmental media;
Development of predictive tools based on the fundamental behavior of nanostructures to advance cost-effective and environmentally benign processing and engineering solutions over full-life material cycles;
Examination of the transport, interaction, and impact of nanostructured materials and nanosystems on biological systems and the environment; and
Simulations of nanoparticle behavior at interfaces, in conjunction with experimental comparisons, and new theories and simulation approaches for determining the transport and transformation of nanoparticles in various media.

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505696

National Science Foundation - Interfacial Engineering

Proposal Due Date:	Proposals accepted anytime
Expected Number of Awards:	
Estimated Total Program Funding:	\$3,200,000
Award Ceiling:	
Award Floor:	
Funding Opportunity Number:	PD-20-1417

Purpose: The Interfacial Engineering program is part of the Chemical Process Systems cluster, which also includes: 1) the Catalysis program; 2) the Electrochemical Systems program; and 3) the Process Systems, Reaction Engineering, and Molecular Thermodynamics program. The goal of the Interfacial Engineering program is to support fundamental research on atomic- and molecular-scale interfacial phenomena and engineering of interfacial properties, processes, and materials. Fundamental

understanding of the thermodynamic, kinetic, and transport properties of interfacial systems underpins improvements in chemical process efficiency and resource utilization. As such, proposed research should have a clear vision for how the results will translate to practice in or otherwise advance industrial chemical or biochemical processes. The program encourages proposals that present new approaches to long-standing challenges or address emerging research areas and technologies. Collaborative and interdisciplinary proposals are also encouraged, particularly those that involve a combination of experiment with theory or modeling.

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=320797>

National Science Foundation - Linguistics: Dynamic Language Infrastructure-Doctoral Dissertation Research Improvement Grants

Proposal Due Date:	Proposals accepted anytime
Expected Number of Awards:	15
Estimated Total Program Funding:	\$250,000
Award Ceiling:	
Award Floor:	
Funding Opportunity Number:	19-607

Purpose: This program supports doctoral research focusing on building dynamic language infrastructure (DLI). Developing language infrastructure includes the documentation and preservations of languages in ways that articulate or advance linguistic theory, as well as the use of digitization techniques and novel computational methods that support and advance the study of language. Special emphasis is given to human languages that are endangered, i.e., understudied and at risk of falling out of use. The program supports the development of the next generation of researchers that contribute to language data management and archiving, and to the analysis of these archives to advance language infrastructure. 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 is in the form of doctoral dissertation research improvement grants (DDRIs) for up to 24 months and this solicitation addresses the preparation and evaluation of proposals for DDRI proposals.

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=320855>