**Grant Opportunity Alerts**

Keywords and Areas Included in the Grant Opportunity Alert Section Below

**NSF:** Big Data Regional Innovation Hubs (BD Hubs); Formal Methods in the Field (FMitF); Cyberinfrastructure for Biological Research (CIBR); Instrument Capacity for Biological Research (ICBR); Infrastructure Innovation for Biological Research (IIBR); Infrastructure Capacity for Biology (ICB) Core Programs; Small Business Innovation Research Program Phase I (SBIR); Collaborative Research in Computational Neuroscience (CRCNS); Innovative Approaches to Science and Engineering Research on Brain Function; NSF/Intel Partnership on Foundational Microarchitecture Research (FoMR); Division of Environmental Biology (DEB) Core Programs

**NIH:** BRAIN Initiative Cell Census Network (BICCN) ? Scalable Technologies and Tools for Brain Cell Census (R01); NIH Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (R25); Imaging - Science Track Award for Research Transition (I/START) (R03); BRAIN Initiative: Team-Research BRAIN Circuit Programs - TeamBCP (U19); NLM Research Grants in Biomedical Informatics and Data Science (R01); BRAIN Initiative: Research Opportunities Using Invasive Neural Recording and Stimulating Technologies in the Human Brain (U01); Virtual Consortium for Translational/Transdisciplinary Environmental Research (ViCTER) (R01); Virtual Consortium for Translational/Transdisciplinary Environmental Research (ViCTER) (R01); BRAIN Initiative: Development of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in Human and Non-Human Primate Brain (UG3/UH3)

**Department of Defense/US Army/DARPA/ONR:** AFRL/RXC Structural Materials Open BAA; Information Innovation Office (I2O); Complex Traumatic Brain Injury Rehabilitation Research Clinical Research Award; Young Faculty Award; BROAD AGENCY ANNOUNCEMENT (BAA) for Extramural
Biomedical Research and Development; NRL Long Range Broad Agency Announcement (BAA) for Basic and Applied Research

**Department of Education**: Institute of Education Sciences (IES)

**EPA**: Practical Methods to Analyze and Treat Emerging Contaminants (PFAS) in Solid Waste, Landfills, Wastewater/Leachates, Soils, and Groundwater to Protect Human Health and the Environment

**Department of Energy**: Advanced Solar Systems Integration Technologies Notice of Intent (NOI); Machine Learning for Geothermal Energy

**NASA**: Solar System Exploration Research Virtual Institute Cooperative Agreement Notice (SSERVI CAN-3); Use of the NASA Physical Sciences Informatics System - Appendix E National Endowment of Humanities: Humanities Connections Implementation Grants

**Michael J. Fox Foundation**: Research and Open Innovation

**ACI Foundation**: Concrete Research

**Samsung**: Samsung Global Research Outreach Program (GRO)

**Simons Foundation**: Simons Investigator program in the Mathematical Modeling of Living Systems (MMLS); Simons Foundation Fellowships in Math and Theoretical Physics

**Whitehall Foundation**: Research Grants in Neurology

**BrightFocus Foundation**: Alzheimer's Disease Research Program; Macular Degeneration Research Program; National Glaucoma Research Program

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**Special Announcement**

**Fringe Benefits Rate for Graduate Students Research Assistants to Cover Healthcare Insurance Costs Under the UCAN Agreement**

The university has entered into a contract with the United Council of Academics at NJIT (UCAN) that covers the employment of graduate student research assistants and other research staff (e.g. research scientists, postdocs, and research associates). This contract determines the minimum salary for each of these positions. In addition, there will now be a fringe rate of 7.8% on all research assistant appointments. This fringe rate provides negotiated cost for healthcare insurance benefits to students.

As other personnel costs, this fringe benefits rate needs to be charged to grants. The university has determined that the burden of this additional cost will be distributed on grants in the following manner. During the current fiscal year (FY19), the university will absorb this increase for current grants. For all new grants and for current ongoing grants after FY19, this fringe benefit cost must be charged to the grant. Faculty and research staff should consult their department’s research ambassador to discuss how to budget this charge in proposals now being developed and for help with any re-budgeting that will be needed for new awards as they arrive.

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**Protecting Human Research Participants (PHRP) Online Tutorial**

**No Longer Available as of September 26, 2018**

In October 2000, the NIH implemented a policy (NOT-OD-00-039) requiring all investigators submitting grant applications or responding to solicitations involving human subjects research to receive education
on the protection of human subjects. Documentation of education is required prior to award for all key personnel who are responsible for the design and conduct of the study as outlined in NOT-OD-01-061.

On March 1, 2008, the NIH Office of Extramural Research (OER) began offering the online Protecting Human Research Participants tutorial as a public service. This course was one option to fulfill the protection of human subjects education requirement. Institutions using the Protecting Human Research Participants course to fulfill this requirement may choose to use another training program or develop a program to meet the requirement. NIH does not specify or endorse any specific educational programs. Frequently asked questions about the protection of human subjects education requirement are available at https://humansubjects.nih.gov/requirement-education.

At the end of August 2018 NIH issued a policy notice announcing that as of September 26, 2018 their Protecting Human Research Participants (PHRP) Online Tutorial would no longer be available. NJIT community members should be sure to complete any in-progress courses and to print their course certificates before September 26, 2018. This change does not impact the requirement for researchers to comply with the NIH policy, Required Education in the Protection of Human Research Participants.

All researchers are required to take online course on Responsible Conduct in Research (RCR) to be in compliance with federal regulation as posted on the NJIT website https://www.njit.edu/research/compliance/conduct.php. In addition, NJIT faculty and researchers to pursue research involving human subjects are required to complete training in the protection of human subjects. As a replacement of NIH PHRP course, researchers using human subjects must complete the online CITI course on Human Subjects Research (HSR) before working with human subjects. Research participants can complete CITI training, available through our website at https://www.njit.edu/research/compliance/citi-software.php.

The Collaborative Institutional Training Initiative (CITI) Online Software System

NJIT faculty, staff and students can access to CITI online software programs that offer web-based training materials and training courses in several areas related to research compliance. The system also provides an online training and certification course that is required by all students, post-docs and research staff in compliance with federal and university regulations.

To access online materials and courses for training or certification, please register online at the CITI website (www.citiprogram.org). You would need to select “New Jersey Institute of Technology” as your institution. Once you register your account, you can access several research compliance modules, view the material and take appropriate courses for training or certification.

Recent Research Grant and Contract Awards

Congratulations to faculty and staff on receiving research grant and contract awards!

**PI:** Hyomin Kim (PI)  
**Department:** Center for Solar Terrestrial Research  
**Grant/Contract Project Title:** Collaborative Research: GEM - Global Propagation Characteristics of Electromagnetic Ion Cyclotron Waves  
**Funding Agency:** NASA  
**Duration:** 08/01/17-07/31/20
PI: Joyoung Lee (PI), Guiling Wang (Co-PI) and Cong Wang (Co-PI)
Department: Civil and Environmental Engineering, Computer Science, and Electrical and Computer Engineering
Grant/Contract Project Title: EAGER: Connected and Automated Vehicle Assessment Platform Using a Crowdsourced Cyber-Physical Reality
Funding Agency: IBM
Duration: 09/15/18-08/31/20

In the News...
(National and Federal News Related to Research Funding and Grant Opportunities)

President Signs Energy-Water Appropriation: Perhaps in an indication he’s not–yet–in a vetoing frame of mind, the president has signed the FY 2019 spending bill that funds the Department of Energy (including the Office of Science and ARPA-E) and the Army Corps of Engineers. The Energy Sciences Coalition praises the bill’s 5 percent increase -- to $6.59 billion -- for the Office of Science, which ESC says "will advance vital early stage research at both U.S. universities and the network of 17 DOE National Laboratories focused on high-risk, high-reward research areas. Machine learning, quantum information science, materials by design, and nuclear science are just a few examples of . . . research that can lead to paradigm-shifting innovations in energy technologies that spawn the creation of new industries." More information is posted on https://www.aaas.org/page/fy-2019-rd-appropriations-dashboard

Harnessing the Data Revolution: The National Science Foundation lists a series of opportunities for researchers as part of this "big idea," including: Critical Techniques, Technologies and Methodologies for Advancing Foundations and Applications of Big Data Sciences and Engineering (BIGDATA); Cyberinfrastructure for Sustained Scientific Innovation (CSSI) - Data and Software: Elements and Frameworks; Resource Implementations for Data Intensive Research in the Social, Behavioral and Economic Sciences (RIDIR); and Partnerships between Science and Engineering Fields and the NSF TRIPODS Institutes (TRIPODS + X). Find the individual links by clicking here. The RFP is included in the Grant Opportunity section below.

House Passed FY 2019 Spending Bills: The House, in a veto-proof 377-20 vote, sent a spending measure that funds the Department of Energy to President Trump for his signature. Also, House-Senate conferees approved an $855 billion measure to fund the Pentagon and departments of Labor, Health and Human Services (including the National Institutes of Health) and Education.
Defense Appropriations –
- Provides a total of $674.4 billion in funding, which is consistent with the National Defense Authorization Act of 2019. It continues to rebuild the military with a boost of $17 billion above the fiscal year 2018 level in base discretionary funding.
- Of the total, the bill includes $67.9 billion for ongoing Overseas Contingency Operations and Global War on Terror efforts.
- Supports our warfighters by including the authorized 2.6% pay raise for our troops – the largest such pay raise in nine years.
• Boosts troop levels – supports 1,338,100 active-duty troops and 817,700 Guard and Reserve troops and **meets the requested 16,400 end-strength increase.**
• Cares for our troops, military families, and retirees by including $34.4 billion for the Defense Health Program.
• Includes funding above the request for **cancer research, traumatic brain injury and psychological health research, and sexual assault prevention and response.**
• Replenishes our military might by providing $148 billion for **equipment procurement** and $96.1 billion for **research and development** into new defense systems and technologies.

**Labor, Health and Human Services Appropriations** –
• Includes vital funding for the **National Institutes of Health** – $39 billion, an increase of $2 billion – for **research to cure diseases such as cancer and Alzheimer’s.**
• Funds programs to **protect against health threats such as pandemics and bio-threats**, providing $7.9 billion for the Centers for Disease Control (CDC), and $2 billion to prepare for and prevent public health and social services emergencies with programs such as biomedical research, acquisition of medical supplies and vaccines, and hospital preparedness grants.
• Saves taxpayers $50 million in future appropriations by creating the first **Infectious Diseases Rapid Response Reserve Fund**, where funds only become available for use in the event of a future public health emergency.
• Encourages economic growth with funding for **job training programs** and grants, Job Corps, and veterans employment services.
• Prepares the next generation through **education programs**, including college preparation and Pell grant funding, special education programs, pre-school grants, charter schools, and state support and achievement grants.
• **Helps to combat the opioid epidemic by providing $6.7 billion, a historic level of funding, for programs that fight, treat, and stop** substance abuse and support access to mental health services. This includes $5.7 billion for the Substance Abuse and Mental Health Services Administration, a $584 million increase. This will fund activities authorized under the 21st Century Cures Act and other addiction and recovery programs. The legislation also provides increases for State opioid response grants and criminal justice programs such as drug courts.
• **Improves school safety** by investing $1.5 billion in the Department of Education and HHS.

**NSF INCLUDES Takes Major Step Forward with New Awards:** The National Science Foundation (NSF) has issued new awards that represent the next major step for its NSF INCLUDES program -- the development of a national network to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) by broadening participation in those disciplines. The U.S. innovation economy increasingly requires skilled STEM workers -- scientists, engineers, technicians and people with STEM backgrounds -- to maintain the nation’s status as a global leader. Researchers have identified persistent challenges that limit the access of underrepresented populations to quality STEM education and opportunities for STEM employment. The NSF INCLUDES approach builds on a growing body of scientific research suggesting that complex problems -- such as overcoming the barriers many groups face in accessing STEM opportunities -- are best addressed through structured, collaborative partnerships focused on finding solutions through common goals and shared metrics. "NSF INCLUDES was conceived as a sustained effort, a recognition that a problem as complex as the need to broaden participation in STEM requires a long-term, collaborative approach," said NSF Director France Córdova. "After laying the groundwork through pilot projects, NSF INCLUDES is taking a significant step toward creating a
national network with these new awards." Laying out $57 million, the National Science Foundation has made what Science magazine calls its first "major investment" in Director France Córdova’s signature initiative, Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (INCLUDES). NSF press release is posted on the website https://www.nsf.gov/news/news_summ.jsp?cntn_id=296531&org=NSF&from=news.

Hikes for Health Research: The conference agreement on National Institutes of Health spending (part of a giant bill that includes the Pentagon appropriation) includes a whopping $2.3 billion (up by $423 million) for Alzheimer’s research. Also due for increases are precision medicine; the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative; the Cancer Moonshot; the Human Genome Research Institute (NHGRI); and the National Institute of Biomedical Imaging and Bioengineering (NIBIB).

NIH’s ‘VENTURE CAPITAL’ ARM: NIH’s durable Common Fund addresses "emerging scientific opportunities and pressing challenges in biomedical research that no single NIH Institute or Center (IC) can address on its own, but are of high priority for the NIH as a whole." Its programs are "short-term, goal-driven strategic investments, with deliverables intended to catalyze research across multiple biomedical research disciplines." The most recent opportunities include (https://commonfund.nih.gov/grants/fundedresearch):

- Acute to Chronic Pain Signatures (A2CPS)
- Extracellular RNA Communication
- Gabriella Miller Kids First
- Glycoscience
- NIH Director’s Early Independence Award
- NIH Director’s New Innovator Award
- NIH Director’s Pioneer Award
- NIH Director’s Transformative Research Award
- Illuminating the Druggable Genome
- Somatic Cell Genome Editing
- Stimulating Peripheral Activity to Relieve Conditions (SPARC)

NSF Implements 10 Big Ideas Plan for Transformative Research: NSF’s strategic plan for FY 2018-2022 emphasizes on innovative and transformative research in many areas from transportation to manufacturing and agriculture. From the NSF strategic plan 2018-2022 (https://www.nsf.gov/pubs/2018/nsf18045/nsf18045.pdf): “Scientific breakthroughs start with a question, a big idea, about the nature of things that often leads to a fundamental shift in thinking. The ability to pursue and investigate that question, and to innovate along the way, is what enables the discoveries that ultimately transform the world. This plan illustrates the opportunities ahead with examples from some of NSF’s “10 Big Ideas” for future investment. These bold, long-term research questions consider critical societal challenges and important lines of scientific inquiry where NSF aims to catalyze new breakthroughs. Partnerships with other federal agencies, nonprofits, private-sector collaborators, industry partners and the public will help advance these research areas. This plan also underscores where greater investments are needed; for example, in research infrastructure and broadening participation in the science, technology, engineering and mathematics (STEM) workforce. As highlighted in the 2018 Science and Engineering Indicators report, the number of non-STEM jobs requiring STEM skills is now on par with the number of STEM jobs in the U.S. As societies around the world transition to more knowledge-based economies, NSF
is committed to preparing a 21st century workforce and ensuring that talented individuals from all sectors of our society have access to STEM learning.“. The ten big ideas for NSF investments are:

- **Harnessing the Data Revolution**
- **The Future of Work at the Human-Technology Frontier**
- **Navigating the New Arctic**
- **Windows on the Universe: The Era of Multi-Messenger Astrophysics**
- **The Quantum Leap: Leading the Next Quantum Revolution**
- **Understanding the Rules of Life: Predicting Phenotype**
- **Mid-scale Research Infrastructure**
- **NSF 2026: Seeding Innovation**
- **Growing Convergence Research at NSF**
- **NSF INCLUDES (Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science): Enhancing STEM through Diversity and Inclusion**

### Webinar and Events

**Event: ETAP 18 - Modeling and Deliverables**
**Sponsor:** ETAP  
**When:** September 26, 2018; 9.00 AM – 10.00 AM  
September 27, 2018; 9.30 AM – 10.30 AM  
**Brief Description:** This webinar will cover many time-saving enhancements in addition to the new reports and deliverables to improve productivity and user experience:
- One-line graphics & synchronized presentations  
- Powerful rule-based automated designs  
- Advanced multi-study plotting using Plot Manager  
- New protective device setting reports and deliverables for TCC curves  
- New report deliverables for one-line diagram  
**To register to the webinar:** Please register at the above website.

**Event: NSF Electronic Research Administration (ERA) Forum Webinar**
**Sponsor:** NSF  
**When:** September 26, 2018; 1.00 PM – 2.30 PM  
**Website:** https://www.nsf.gov/events/event_summ.jsp?cntn_id=296581&org=NSF  
**Brief Description:** The National Science Foundation's Electronic Research Administration (ERA) Forum Webinar will be hosted by NSF on September 26, 2018 from 1:00-2:30 PM Eastern Time. To participate in this Forum Webinar, please Register Now.
The purpose of the ERA Forum is to gather individual opinions and perspectives around NSF ERA activities. This open Forum will also be used to present proposed solutions, collect feedback, understand how solutions may impact the community, and solicit volunteers for testing.

The topics of this ERA Forum Webinar will be:

- Research.gov Proposal Preparation and Submission Functionality for Collaborative Proposals;
- New Award Notice; and
- Branding Options for the Consolidation of Research.gov and FastLane.

To register to the webinar: Register Here Now

Event: Research Initiation in Engineering Formation webinar
Sponsor: NSF
When: September 28, 2018; 1.00 PM – 2.00 PM
Website: [https://www.nsf.gov/events/event_summ.jsp?cntn_id=296702&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=296702&org=NSF)

Brief Description: The NSF Research Initiation in Engineering Formation (RIEF) program in the Division of Engineering Education and Centers will be hosting a webinar for prospective Principal Investigators on Friday, September 28 at 1 pm Eastern. Participants are invited to send questions ahead of time to Julie Martin, program director for Engineering Education, who can answer them during the webinar.

To register to the webinar: go to the Blue Jeans meeting at [https://bluejeans.com/734662857/?src=htmlEmail](https://bluejeans.com/734662857/?src=htmlEmail) or call toll-free +1 (888) 240-2560.

Event: Math Frontiers Monthly Webinar Series
Sponsor: National Academies
When: October 9, 2018 from 2.00 PM
Website: [http://sites.nationalacademies.org/deps/bmsa/deps_183972](http://sites.nationalacademies.org/deps/bmsa/deps_183972)

Brief Description: Join the National Academies of Sciences, Engineering, and Medicine for a webinar series on exciting and upcoming mathematics research across an array of topics. Webinars will take place on the second Tuesday of each month from 2-3 p.m. ET, with two speakers and live Q&A. See below for the list of dates and themes for each webinar. When registering, please make sure you select all the webinars you would like to attend.

As each webinar approaches, we will post more information about the speakers on the webinar series page at nas.edu/mathfrontiers.

October 9, 2018: Combinatorics
Invited speakers will discuss the mathematical study of discrete structures and their properties focusing on some of the modern techniques in the area including the probabilistic method. Application areas include information theory, statistical physics, molecular biology and computer science.

November 13, 2018: Why Machine Learning Works
Invited speakers will discuss the mathematics behind machine learning and how they enable predictive analyses.

December 11, 2018: Mathematics of Epidemics
Professors Calistus Ngonghala and Folashade B. Agusto will discuss mathematical approaches to studying biology, including ecology and infectious disease.

To join the webinar: Please register at [http://sites.nationalacademies.org/deps/bmsa/deps_183972](http://sites.nationalacademies.org/deps/bmsa/deps_183972)
Grant Opportunities

National Science Foundation

Grant Program: Big Data Regional Innovation Hubs (BD Hubs) Accelerating the Big Data Innovation Ecosystem
Agency: National Science Foundation NSF 18-598

Brief Description: NSF’s Directorate for Computer and Information Science and Engineering (CISE) initiated the National Network of Big Data Regional Innovation Hubs (BD Hubs) program in FY 2015 (NSF 15-562). Four Big Data Hubs (BD Hubs)—Midwest, Northeast, South, and West—were established, one in each of the four Census Regions of the United States[1]. The BD Hubs provide the ability to engage local or regional stakeholders, e.g., city, county, and state governments, local industry and non-profits, and regional academic institutions, in big data research, and permit a focus on regional issues. These collaborative activities and partnerships play a critical role in building and sustaining a successful national big data innovation ecosystem.

This solicitation continues the operation of a national network of BD Hubs. It builds on demonstrated strengths of the program, which has grown to include a set of BD Spokes affiliated with the BD Hubs, and is responsive to the recent developments in data science. For instance, the recently released report on Data Science for Undergraduates: Opportunities and Options from the National Academies of Sciences, Engineering, and Medicine exemplifies the urgency of multi-faceted education and training in data science. The BD Hubs will continue to nucleate regional collaborations and multi-sector projects, while fostering innovation in data science.

The NSF BD Hubs program is aligned with NSF’s Harnessing the Data Revolution (HDR) Big Idea, one of NSF’s 10 Big Ideas for Future Investment. HDR is a visionary, national-scale activity to enable new modes of data-driven discovery, allowing fundamentally new questions to be asked and answered in science and engineering frontiers, generating new knowledge and understanding, and accelerating discovery and innovation. The HDR vision is realized via a coordinated set of program solicitations resulting in an ecosystem of interrelated activities enabling (i) research in the foundations of data science; frameworks, algorithms, and systems for data science; and data-driven research in science and engineering; (ii) advanced cyberinfrastructure; and (iii) education and workforce development—all of which are designed to amplify the intrinsically multidisciplinary nature of the data science challenge. The HDR Big Idea will establish theoretical, technical, and ethical data science frameworks, and apply them to practical problems in science and engineering, and in society more generally.

Awards: Up to $4,000,000; Available Funds: $16,000,000
Letter of Intent: Not Required
Limit on Number of Proposals per Organization: 1: An organization may only submit one proposal.
Limit on Number of Proposals per PI or Co-PI: 1
Internal Competition: NJIT faculty should send SVPR Atam Dhawan a pre-proposal with the following sections for internal review by October 15, 2018. The selection of the proposal for institutional submission will be announced by October 22, 2018. The pre-proposal should include:

i. A cover sheet with names and affiliation of all investigators
ii. Summary of the project with Intellectual Merit and Broader Impact sections
iii. Proposed budget
iv. NSF format biographical sketch for PI and all Co-PIs.

Full Proposal Submission Deadline: Anytime
Contacts: Beth A. Plale, Science Advisor, CISE/OAC, National Science Foundation, E10475, telephone: (703) 292-7004, email: BDHubQueries@nsf.gov
Grant Program: Formal Methods in the Field (FMitF)  
Agency: National Science Foundation NSF 18-596  

Brief Description: The Formal Methods in the Field (FMitF) program aims to bring together researchers in formal methods with researchers in other areas of computer and information science and engineering to jointly develop rigorous and reproducible methodologies for designing and implementing correct-by-construction systems and applications with provable guarantees. FMitF encourages close collaboration between two groups of researchers. The first group consists of researchers in the area of formal methods, which, for the purposes of this solicitation, is broadly defined as principled approaches based on mathematics and logic, including modeling, specification, design, program analysis, verification, synthesis, and programming language-based approaches. The second group consists of researchers in the “field,” which, for the purposes of this solicitation, is defined as a subset of areas within computer and information science and engineering that currently do not benefit from having established communities already developing and applying formal methods in their research. This solicitation limits the field to the following areas that stand to directly benefit from a grounding in formal methods: computer networks, cyber-human systems, distributed /operating systems, hybrid/dynamical systems, and machine learning. Other field(s) may emerge as priority areas for the program in future years, subject to the availability of funds.  

The FMitF program solicits two classes of proposals:  
- **Track I: Research proposals:** Each proposal must have at least one Principal Investigator (PI) or co-PI with expertise in formal methods and at least one with expertise in one or more of these fields: computer networks, cyber-human systems, distributed/operating systems, hybrid/dynamical systems, and machine learning. Proposals are expected to address the fundamental contributions to both formal methods and the respective field(s) and should include a proof of concept in the field along with a detailed evaluation plan that discusses intended scope of applicability, trade-offs, and limitations. All proposals are expected to contain a detailed collaboration plan that clearly highlights and justifies the complementary expertise of the PIs/co-PIs in the designated areas and describes the mechanisms for continuous bi-directional interaction. Projects are limited to $750,000 in total budget, with durations of up to four years.  
- **Track II: Transition to Practice (TTP) proposals:** The objective of this track is to support the ongoing development of extensible and robust formal methods research prototypes/tools to facilitate usability and accessibility to a larger and more diverse community of users. These proposals are expected to support the development, implementation, and deployment of later-stage successful formal methods research and tools into operational environments in order to bridge the gap between research and practice. A TTP proposal must include a project plan that addresses major tasks and system development milestones as well as an evaluation plan for the working system. Proposals are expected to identify a target user community or organization that will serve as an early adopter of the technology. Collaborations with industry are strongly encouraged. Projects are limited to $100,000 in total budget, with durations of up to 18 months.  

The Project Description can be **up to 15 pages for Track I proposals, and up to 7 pages for the Track II proposals.**  

**Awards:** Standard Grant **Anticipated Funding Amount:** $10,000,000  
**Letter of Intent:** Not Required  
**Full Proposal Submission Deadline:** January 15, 2019
Contacts: Nina Amla, Program Director, CISE/CCF, telephone: (703) 292-7991, email: namla@nsf.gov
- Anindya Banerjee, Program Director, CISE/CCF, telephone: (703) 292-7885, email: abanerje@nsf.gov
- Vipin Chaudhary, Program Director, CISE/OAC, telephone: (703) 292-2254, email: vipchaud@nsf.gov

Grant Program: Cyberinfrastructure for Biological Research (CIBR)
Agency: National Science Foundation NSF PD 18-1165
RFP Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505538&org=NSF&sel_org=NSF&from=fund
Brief Description: Biological processes at all scales from molecules to ecosystems are determined through the encoding, exchange, and interpretation of information. Advances in the biological sciences are enabled by our capacity to acquire, manage, represent, and analyze biological information through the use of modern instrumentation and computational tools. Developing an integrated understanding of cell function, regulatory systems, or ecological responses to environmental change are just a few examples of biological research areas that involve the acquisition, observation, experiment, and modeling of large amounts of data. Proposals are invited that offer potentially transformative outcomes through the development of informatics tools and resources that (1) offer novel and significant advances in the use of biological data and/or (2) will enable and stimulate advances through their impact on a significant segment of the biological research community supported by the NSF BIO Directorate. CIBR supports development in areas that may include (but are not limited to):
- Databases consisting of primary data obtained through observation, experimentation, modelling, or synthesis of existing data into new derivative products.
- New tools for the construction, operation, and utilization of biological databases, including database architectures and infrastructures, data standards designed to be extendable to different biological domains, and data structures for new types of biological information
- Software or ontologies related to the retrieval, integration, and use of heterogeneous biological information, for example, data discovery, data-mining, data integration or visualization
- Tools that facilitate biological research workflows, analytic pathways, or integration between the field and the laboratory, or between observation, experiments and models
- Software and methods for making use of new technologies for the acquisition, communication or visualization of biological data
- Infrastructure that provides broad community access to shared computational and data resources, commonly referred to as scientific gateways.

Awards: Standard Grants
Letter of Intent: Not Required
Full Proposal Submission Deadline: Anytime
Contacts: Peter H. McCartney pmccartn@nsf.gov (703) 292-8470
Jennifer W. Weller jweller@nsf.gov (703) 292-7121

Grant Program: Infrastructure Innovation for Biological Research (IIBR)
Agency: National Science Foundation NSF 18-595
Brief Description: The Infrastructure Innovation for Biological Research (IIBR) solicitation supports new and innovative research in biological informatics, instrumentation and associated methods, as well as multidisciplinary approaches to these broad themes that address needs in basic biological research. These awards support pioneering approaches that develop de novo infrastructure, significantly redesign
existing infrastructure, or apply existing infrastructure in novel ways. Activities must demonstrate the potential to advance or transform research in biology as supported by the Directorate for Biological Sciences at the National Science Foundation (https://nsf.gov/bio).

**Awards:** Standard Grant  
**Anticipated Funding Amount:** $10,000,000  
**Letter of Intent:** Not Required

**Full Proposal Submission Deadline:** Anytime

**Contacts:** Robert Fleischmann, telephone: (703) 292-7191, email: rfleisch@nsf.gov  
- Steve Ellis, telephone: (703) 292-7876, email: stellis@nsf.gov  
- Jennifer W. Weller, telephone: (703) 292-7121, email: jweller@nsf.gov

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**Grant Program:** Infrastructure Capacity for Biology (ICB) Core Programs  
**Agency:** National Science Foundation  
**NSF 18-594**


**Brief Description:** The Infrastructure Capacity for Biology (ICB) supports the development, expansion, or improvement of infrastructure that will enable fundamental research within the biological sciences. Infrastructure supported under this solicitation may include cyberinfrastructure, instrumentation, biological collections, living stocks, field stations, marine labs, or other resources that are shared and openly accessible. Proposals submitted to the ICB solicitation must make a compelling case that the proposed infrastructure will advance or transform research in areas of science that are supported by the Directorate for Biological Sciences (BIO) at the National Science Foundation.

While other programs in the Division of Biological Infrastructure (DBI) focus on innovative research leading to new infrastructure or sustained operation of mature infrastructure, this solicitation focuses on supporting projects that seek to deliver, enable access to, or substantially improve infrastructure that will advance the capacity of today’s scientific community to conduct leading edge research. The impacts of the activities funded by awards made through this solicitation will be reflected not just in the quality of their products, but by the novel and transformative science outcomes that will be achieved by the users of these resources. Infrastructure projects that will advance any field of research supported by the Directorate for Biological Sciences are eligible for support under this program.

**Awards:** Standard Grant  
**Anticipated Funding Amount:** $40,000,000

**Letter of Intent:** Not Required

**Full Proposal Submission Deadline:** Anytime

- **Contacts:** Peter H. McCartney, telephone: (703) 292-8470, email: pmccartn@nsf.gov  
- Robert D. Fleischmann, telephone: (703) 292-7191, email: rfleisch@nsf.gov  
- Reed S. Beaman, telephone: (703) 292-7163, email: rsbeaman@nsf.gov

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**Grant Program:** Small Business Innovation Research Program Phase I (SBIR) December 2018  
**Agency:** National Science Foundation  
**NSF 18-593**


**Brief Description:** The SBIR program is Congressionally mandated and intended to support scientific excellence and technological innovation through the investment of federal research funds to build a strong national economy by stimulating technological innovation in the private sector; strengthening the role of small business in meeting federal research and development needs; increasing the commercial application of federally supported research results; and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. The SBIR program at NSF solicits proposals from the small business sector consistent with NSF's mission to promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense.
Because the program has no topical or procurement focus, the NSF offers very broad solicitation topics that are intended to encourage as many eligible science- and technology-based small businesses as possible to compete for funding. The topics are detailed on the website. In many cases, the program is also open to proposals focusing on technical and market areas not explicitly noted in the aforementioned topics.

**Awards:** Standard Grant **Anticipated Funding Amount:** $33,750,000

**Letter of Intent:** Not Required

**Full Proposal Submission Deadline:** December 04, 2018

**Limit on Number of Proposals per Organization:** 1

An organization may submit no more than ONE Phase I proposal to this SBIR/STTR cycle (where SBIR/STTR cycle is defined to include the SBIR Phase I solicitation and the STTR Phase I solicitation with a December 2018 deadline). This eligibility constraint will be strictly enforced. In the event that an organization exceeds this limit, the first proposal received will be accepted, and the remainder will be returned without review. Please inform Atam Dhawan, Senior Vice Provost for Research by October 1, 2018, if you are interested in submitting a proposal for this RFP.

**Contacts:** Henry Ahn, Biomedical (BM) Technologies, telephone: 703-292-7069, email: hahn@nsf.gov
- Peter Atherton, Information Technologies (IT), telephone: 703-292-8772, email: patherto@nsf.gov
- Anna Brady-Estevez, Chemical and Environmental Technologies (CT), telephone: 703-292-7077, email: abramy@nsf.gov

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**Grant Program:** Collaborative Research in Computational Neuroscience (CRCNS)

**Innovative Approaches to Science and Engineering Research on Brain Function**

**Agency:** National Science Foundation NSF 18-591


**Brief Description:** Computational neuroscience provides a theoretical foundation and a rich set of technical approaches for understanding complex neurobiological systems, building on the theory, methods, and findings of computer science, neuroscience, and numerous other disciplines.

Through the CRCNS program, the National Science Foundation (NSF), the National Institutes of Health (NIH), the German Federal Ministry of Education and Research (Bundesministerium für Bildung und Forschung, BMBF), the French National Research Agency (Agence Nationale de la Recherche, ANR), the United States-Israel Binational Science Foundation (BSF), Japan’s National Institute of Information and Communications Technology (NICT), and the State Research Agency (Agencia Estatal de Investigación, AEI) and National Institute of Health Carlos III (Instituto de Salud Carlos III, ISCIII), both of Spain, support collaborative activities that will advance the understanding of nervous system structure and function, mechanisms underlying nervous system disorders, and computational strategies used by the nervous system.

Two classes of proposals will be considered in response to this solicitation:
- Research Proposals describing collaborative research projects, and
- Data Sharing Proposals to enable sharing of data and other resources.

Appropriate scientific areas of investigations may be related to the interests of any of the participating funding organizations. Questions concerning a particular project's focus, direction, and relevance to a participating funding organization should be addressed to the appropriate person in the list of agency contacts found in Section VIII of the solicitation.

**Awards:** Standard Grant **Anticipated Funding Amount:** $20,000,000

**Letter of Intent:** Not Required

**Full Proposal Submission Deadline:** November 27, 2018

**Contacts:** Kenneth Whang, CRCNS Program Coordinator - NSF; Program Director, Division of Information and Intelligent Systems, National Science Foundation, telephone: (703) 292-5149, fax: (703) 292-9073, email: kwhang@nsf.gov

- Jasmine Owens, CRCNS Administrative Coordinator - NSF; Program Analyst, Division of Information and Intelligent Systems, National Science Foundation, telephone: (703) 292-8377, fax: (703) 292-9073, email: jowens@nsf.gov

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**Grant Program:** NSF/Intel Partnership on Foundational Microarchitecture Research (FoMR)

**Agency:** National Science Foundation NSF 18-588


**Brief Description:** The confluence of transistor scaling, increases in the number of architecture designs per process generation, the slowing of clock frequency growth, and recent success in research exploiting thread-level parallelism (TLP) and data-level parallelism (DLP) all point to an increasing opportunity for innovative microarchitecture techniques and methodologies in delivering performance growth in the future.

The NSF/Intel Partnership on Foundational Microarchitecture Research will support transformative microarchitecture research targeting improvements in instructions per cycle (IPC). This solicitation seeks microarchitecture technique innovations beyond simplistic, incremental scaling of existing microarchitectural structures. Specifically, FoMR seeks to advance research that has the following characteristics: (1) high IPC techniques ranging from microarchitecture to code generation; (2) “microarchitecture turbo” techniques that marshal chip resources and system memory bandwidth to accelerate sequential or single-threaded programs; and (3) techniques to support efficient compiler code generation. Advances in these areas promise to provide significant performance improvements that continue the trends characterized by Moore’s Law.

**Awards:** Standard Grant **Anticipated Funding Amount:** $2,500,000

**Letter of Intent:** Not Required

**Full Proposal Submission Deadline:** November 28, 2018

**Contacts:** Yuanyuan Yang, Program Director, CCF, telephone: (703) 292-8910, email: vyang@nsf.gov

- Matt Haycock, Center Executive Sponsor, Vice President, Intel Labs, telephone: (503) 712-2872, email: matthew.haycock@intel.com

- Hong Wang, Center Managing Sponsor, Intel Fellow, Intel Labs, telephone: (408) 653-7075, email: hong.wang@intel.com

- Jeff Parkhurst, Center Program Director, Intel Labs, telephone: (916) 356-2508, email: jeff.parkhurst@intel.com

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**Grant Program:** Division of Environmental Biology (DEB) Core Programs

**Agency:** National Science Foundation NSF 18-587


**Brief Description:** The Division of Environmental Biology (DEB) Core Track supports research and training on evolutionary and ecological processes acting at the level of populations, species, communities,
and ecosystems. DEB encourages research that elucidates fundamental principles that identify and explain the unity and diversity of life and its interactions with the environment over space and time. Research may incorporate field, laboratory, or collection-based approaches; observational or manipulative studies; synthesis activities; phylogenetic discovery projects; or theoretical approaches involving analytical, statistical, or computational modeling. Proposals should be submitted to the core clusters (Ecosystem Sciences, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Sciences). DEB also encourages interdisciplinary proposals that cross conceptual boundaries and integrate over levels of biological organization or across multiple spatial and temporal scales. Research addressing ecology and ecosystem science in the marine biome should be directed to the Biological Oceanography Program in the Division of Ocean Sciences; research addressing evolution and systematics in the marine biome should be directed to the Evolutionary Processes or Systematics and Biodiversity Science programs in DEB.

All DEB programs also encourage proposals that leverage NSF-supported data networks, databases, centers, and other forms of scientific infrastructure, including but not limited to the National Ecological Observatory Network (NEON), Environmental Data Initiative (EDI), and Integrated Digitized Biocollections (iDigBio).

Rules of Life Track proposals that integrate across the scales in biological sciences are solicited to support research that spans from the population, species, community and ecosystem scales normally funded by DEB, to organismal, cellular and molecular scales typically funded by other divisions in the Biological Sciences. This track provides new opportunities to advance our understanding of the Rules of Life by new mechanisms for review and funding of proposals that would not ordinarily fit well within one division in the Biological Sciences Directorate.

Awards: Standard Grant Anticipated Funding Amount: $100,000,000
Letter of Intent: Not Required
Full Proposal Submission Deadline: Proposals Accepted Anytime
Contacts: Division of Environmental Biology, Phone: (703) 292-8480, email: debquestions@nsf.gov

National Institutes of Health

Grant Program: BRAIN Initiative Cell Census Network (BICCN) ? Scalable Technologies and Tools for Brain Cell Census (R01 Clinical Trial Not Allowed)
Brief Description: The BRAIN Initiative Cell Census program awarded 9 collaborative projects in 2017 and 5 in 2018 under four companion FOAs (RFA-MH-17-210, -215, -225, and -230), which collectively constitute the BRAIN Cell Census Network (BICCN). The overarching goal of the BICCN is to generate comprehensive 3D common reference brain cell atlases that will integrate molecular, anatomical, functional, and cell lineage data for describing cell types in mouse, human, and non-human primate brains. The expected outcomes of the BICCN include:

- fundamental knowledge on diverse cell types and their three dimensional organizational logic in the brain;
- an open-access 3D digital brain cell reference atlas with molecular, anatomical, and physiological annotations of brain cell types in mouse;
- a comprehensive neural circuit diagram in mouse brain;
- reagents for cell-specific targeting;
- validated high throughput and low-cost approaches to characterizing cell diversity in human and/or non-human primate brain samples.
The BICCN operates as a cooperative network to promote collaboration and coordination among the projects within the Network and the BRAIN Initiative, as well as with any external research entities that have similar goals. Currently the BICCN has established close collaboration and coordination relationship with Data Archive projects funded under RFA-MH-17-255. It is expected that the BICCN awardees and their collaborators will work together to achieve the common goals. This will involve regular meetings and other coordinated activities within the BICCN as well as in the BRAIN Initiative and more broadly with the research and education communities. Thus, the BICCN will leverage existing atlases and common coordinate systems to facilitate collaborative efforts for the data annotation and 3D spatial mapping.

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

**Letter of Intent:** December 22, 2018 and December 24, 2019

**Deadline:** January 22, 2019 and January 24, 2020, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Grant Program:** NIH Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (R25 Clinical Trial Not Allowed)

**Agency:** National Institutes of Health RFA-NS-19-007


**Brief Description:** The overarching objective of this funding opportunity is to encourage individuals from diverse backgrounds, including those from groups underrepresented in the biomedical, behavioral, and clinical research workforce, to pursue further studies or careers in. To achieve this goal, the initiative will support neuroscience research education programs comprised of year-round authentic neuroscience research experiences, research and career development, and establishment of professional networks, implemented through collaborative partnerships integrated across different educational institution types. Proposed program interventions in response to this FOA should focus on asset models and leadership opportunities, rather than solely deficit models and remediation (recommendations from 2017 NINDS Activating a Neural Network and 2016 NINDS Forming a Neural Network Workshops).

Participating components of the collaborative research education partnerships should include:

- **One or more institutions** that either: 1) have a historical and current mission to educate students from any of the populations that have been identified as underrepresented in biomedical research as defined by the National Science Foundation NSF, see [http://www.nsf.gov/statistics/wmpd/](http://www.nsf.gov/statistics/wmpd/) (i.e., African Americans or Blacks, Hispanic or Latino Americans, American Indians, Alaska Natives, Native Hawaiians, U.S. Pacific Islanders, and persons with disabilities) or 2) have a documented track record of recruiting, training and/or educating, and graduating underrepresented students as defined by NSF (see above), which has resulted in increasing the institution's contribution to the national pool of graduates from underrepresented backgrounds who pursue biomedical research careers;

- A research-intensive institution, defined as having an existing neuroscience or neuroscience-related program and a significant number of potential mentors with NIH R01 or equivalent extramural research support;

- Formal alliances with one or more institutions with neuroscience-focused graduate research training programs that can provide summer research experiences for participating ENDURE students. Such institutions may hold NIH T32 research training grants, including T32 programs supported by the NIH Jointly Sponsored Institutional Predoctoral Training Programs in the Neurosciences ([https://researchtraining.nih.gov/JSPTPN](https://researchtraining.nih.gov/JSPTPN)).
Additional relevant neuroscience programs can be found by using the NIH RePORTER tool (http://projectreporter.nih.gov/reporter.cfm). These alliances are expected to actively facilitate early communication and interaction among participating students and NIH neuroscience predoctoral program training directors.

To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on:

- **Research Experiences:** The program must include part-time authentic neuroscience research experiences in extramurally-funded laboratories during the academic year at the home institution or one of the partnering institutions. There must also be full-time summer neuroscience research experiences in laboratories that are part of a neuroscience-focused graduate research training program, such as an NIH Institutional Research Training predoctoral program (T32), and which may be located on or off-site of the partnering institutions. The academic year and summer research training experiences across applicant institutions must be carefully monitored. Regularly-scheduled internal review and assessment should be made regarding the progressive scientific skill sets being developed through the research education experiences, the type of mentoring and supervision students are receiving, and the monitoring and evaluation plans for both the students and research mentors. Specific measurable research education and research training objectives are to be determined by the applicant institutions. Examples of measurable objectives include: number of students matriculating through the research education programs and admitted to graduate programs in the neurosciences; improvement in students’ quantitative skills and academic achievement; and improvement in scientific writing and presentation skills.

- **Mentoring Activities:** Programs must provide students with outstanding mentoring and education in other critical skills such as leadership, grant and manuscript writing, and time management. There should be dedicated efforts at providing not only technical expertise, but advice, insight, and professional career skills to students in the program.

- NIH realizes that quality mentorship is critical to the recruitment and retention of scientists, including those from underrepresented backgrounds, and encourages program activities to improve the caliber of mentorship. As recommended in the 2018 NASEM report on graduate education, "modules for faculty to learn how to advise and mentor students from different backgrounds and to raise awareness and accountability about their role in changing the training and mentoring environment" should be a component of a well-designed program. For example, case-based scenarios may be used to educate mentors on various relevant ethical, professional and cultural issues facing students today, effective communication and mentoring compacts, and effective tools for mentors to address cultural awareness.

- **Courses for Skills Development:** Courses should be integrated across the partnering institutions and uniquely designed to increase students’ interest in and preparation to enter Ph.D. degree programs in the neurosciences. Depending on the strength of the applicant institution, it is expected that academic and curriculum enhancement activities may vary in how they are formalized and integrated; various strategies, rooted in education research, may be utilized. These approaches may include, but are not limited to: core neuroscience coursework tailored to students’ backgrounds and needs; development of interdisciplinary or advanced courses with focus on inquiry-based learning or critical thinking and development of experimental rigor and quantitative skills to address neuroscience problems (as recommended in Developing a 21st Century Neuroscience Workforce); curriculum for specialized research techniques; collaborative learning experiences and group activities to convey the excitement and relevance of neuroscience to students; advisement regarding the number, level, and sequence of math and science courses that
students should take to be competitive for graduate school programs in the neurosciences; seminars emphasizing scientific reading comprehension, writing, and oral presentation skills; and research career seminars to help prepare students for the transition from undergraduate to graduate school.

**Award:** Although the size of award may vary with the scope of the research education program proposed and there are no specific budget limitations, the requested direct costs must be reasonable, well documented, fully justified and commensurate with the scope of the proposed program.

**Letter of Intent:** January 15, 2019

**Deadline:** February 15, 2019, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Grant Program:** Imaging - Science Track Award for Research Transition (I/START) (R03 Clinical Trial Optional)

**Agency:** National Institutes of Health PAR-18-918


**Brief Description:** The goal of this Funding Opportunity Announcement (FOA) is to facilitate the entry of investigators to the area of brain imaging research, including both new investigators and established investigators seeking to add brain imaging to their research programs. Accordingly, this FOA invites applications for the Imaging - Science Track Award for Research Transition (I/START) program, a continuing program developed by NIDA to foster the entry of investigators into the areas of brain imaging and drug abuse research. The application of brain imaging technology that can be used in humans is becoming more widespread; however, it is often difficult for new investigators or even established investigators wishing to incorporate such brain imaging methods in their research program to obtain independent funding to generate preliminary data in this area or for more established investigators to identify a source of funding that would allow them to explore the potential application of imaging to their research. In many research domains, investigators are often able to identify sources of support sufficient to conduct preliminary studies. In contrast, the cost of obtaining preliminary data using brain imaging methods that can be used in humans (e.g., PET and MRI scans) often serves as a significant barrier to research, particularly for more translational efforts. This FOA will allow for study design and collection of "proof of concept" brain imaging data that can then be used as pilot data for the transition to more extensive research applications.

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

**Letter of Intent:** Not required

**Deadline:** Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Grant Program:** BRAIN Initiative: Team-Research BRAIN Circuit Programs - TeamBCP (U19 Clinical Trial Not Allowed)

**Agency:** National Institutes of Health RFA-NS-19-003


**Brief Description:** Awards within this RFA will support research programs with 2-5 Research Projects focused on a high impact topic and cutting-edge technologies in large-scale recording and manipulation of circuits in vivo in the context of measurable behaviors. These research teams should offer resources
and governance that bridge across institutional ‘silos.’ For example, research teams might comprise components across institutions or across colleges within a university. Projects should investigate neural function related to defined, ethologically relevant behaviors, well-defined neural systems, and/or biological mechanisms at an anatomic resolution of cells and circuits, and at a sub-second temporal resolution. We expect that awarded projects will become part of a consortium among BRAIN Initiative awardees in developing technologies, methods, expertise, and data and tools for sharing and reuse within the research community. There will be annual reviews by an External Advisory Board per award, with expanded programmatic site visits during years 2 and 4.

The proposed studies must relate to at least one of the seven major topic areas of the BRAIN 2025 report: 1. Discovering diversity: Identify and provide experimental access to the different cell types to determine their roles in the context of circuit function. 2. Maps at multiple scales: Generate structural and functional circuit diagrams that can span resolution from synapses to the whole brain. 3. The brain in action: Produce a dynamic picture of the functioning brain by developing and applying improved methods for large-scale monitoring of neural activity. 4. Demonstrating causality: Link brain activity to behavior with precise interventional tools that change neural circuit dynamics. 5. Identifying fundamental principles: Produce conceptual foundations about circuit dynamics and functional connectivity for understanding the biological basis of mental processes through development of new theoretical and data analysis tools. 6. Advancing human neuroscience: Develop innovative technologies to understand brain circuits and ensembles of circuits that inform understanding of the human brain and mechanisms for treating its disorders. 7. From BRAIN Initiative to the brain: Integrate new technological and conceptual approaches produced in Goals #1-6 to discover how dynamic patterns of neural activity are transformed into cognition, emotion, perception, and action in health and disease.

Award: Application budgets are not limited but need to reflect the actual needs of the proposed project. Letter of Intent: September 30, 2018 Deadline: October 30, 2018 by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

Grant Program: BRAIN Initiative: Research Opportunities Using Invasive Neural Recording and Stimulating Technologies in the Human Brain (U01 Clinical Trial Required) Agency: National Institutes of Health RFA-NS-19-001 RFP Website: https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-19-001.html Brief Description: Investigations within the human brain offer revolutionary, but challenging, opportunities for experimental investigation of how the human brain senses, thinks, perceives, remembers, plans, registers emotions, activates movements, and makes decisions. Invasive surgical procedures provide the unique ability to record and stimulate neurons within precisely localized brain structures in humans. However, human studies using invasive technology are often constrained by a limited number of patients and resources available to implement complex experimental protocols and are rarely aggregated in a manner that addresses research questions with appropriate statistical power. Therefore, this RFA seeks applications to assemble diverse, integrated, multi-disciplinary teams that cross boundaries of interdisciplinary collaboration to overcome these fundamental barriers and to investigate high-impact questions in human neuroscience. Projects should propose prospective testing and validation of explicit or model-driven hypotheses. Studies that offer deployment or development for high
temporal resolution of behavioral quantification integrated with invasive recording of brain activity is encouraged, especially those that would transition to use in naturalistic environments outside of strict laboratory settings.

Projects should engage diverse, multidisciplinary teams consisting of clinicians, scientists, device engineers, data/computational scientists, regulatory specialists, and/or ethics specialists. Teams may be assembled within a single institution, but because of the likelihood of a limited number of patients at any single research center, integration of research teams across sites is strongly encouraged. Awardees are expected to actively participate in a consortium work group, coordinated by the NIH, to identify consensus standards of practice, including neuroethical considerations, to collect and provide data for ancillary studies, and to aggregate and standardize data for dissemination among the wider scientific community. In the interest of iterative models of discovery, support for complementary animal studies are allowed if they validate or inform these empirical studies of human physiology. Applicants are expected to employ approaches guided by specified theoretical constructs, and are encouraged to employ quantitative, mechanistic models where appropriate.

We anticipate that implantable devices for most of these applications will rely on existing technology sufficiently advanced for an IRB Non-Significant Risk designation, or an FDA IDE without needing significant additional pre-clinical testing on the device. We also anticipate that newly IDE-approved devices may become available over the course of these awards. NIH BRAIN is supporting new device development and regulatory approval through other NIH BRAIN initiatives, including the availability of template Memoranda of Agreements (MOUs), Confidential Disclosure Agreements (CDAs) and Collaborative Research Agreements (CRAs) with various private and commercial device providers that may facilitate awardees to adopt novel technologies to fit their needs (see http://braininitiative.nih.gov/ for up to date information and NIH Scientific/Research contacts). Where appropriate, applicants are encouraged to anticipate potential and alternative plans for adopting newly available technologies. Furthermore, use of the cooperative agreement mechanism will allow awardees to negotiate the incorporation of new technologies by working through NIH Program staff in collaboration with technology providers.

Awards: Application budgets are not limited but need to reflect the actual needs of the proposed project.
Letter of Intent: October 14, 2018
Deadline: November 14, 2018 by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.
research publications among the PD/PI and co-investigators within the last 5 years (excluding reviews, white papers, commentaries etc.). NIEHS strongly recommends but does not require that at least one co-investigator be at a different institution from the PD/PI.

A critical component of the ViCTER program, particularly in cases where team members are located at different institutions, is their virtual aspect. This allows researchers at remote locations to form a consortium to integrate their research through the development of a virtual center that “houses” the overall ViCTER project. The PD/PI serves as the Director of the consortium and is responsible for scheduling regular conference calls (at least monthly) and in-person (at least yearly) meetings.

The PD/PI must propose a series of aims that are thematically related, foster collaboration among team members and reflect transdisciplinary/translational approaches to environmental health. The PD/PI and co-investigators should each have a substantial and meaningful role in developing and conducting the overall ViCTER project, demonstrated by each assuming primary responsibility for leading one or more of the proposed Specific Aims.

NIEHS particularly encourages applicants to propose research aims that are high risk/high reward which, if successful, are likely to contribute significantly to one or more areas of environmental science and be the motivator of future collaborative research.

The proposed ViCTER project must fall within the NIEHS mission. Environmental agents which are considered of primary interest for NIEHS include: industrial chemicals or manufacturing byproducts, metals, pesticides, herbicides, air pollutants and other inhaled toxicants, particulates or fibers, fungal, and bacterial or biologically derived toxins. Investigators who propose studies with a primary focus on NIEHS mission relevant exposures are encouraged to consider inclusion of other relevant environmental exposures (e.g., nutrition) in order to assess their role(s) as cofactors/modifiers of the risk or protection associated with the primary exposure(s). Applications that propose laboratory-based studies using only model compounds (i.e., those without potential for human exposure) must provide a clear, reasonable and specific description as to how research on the model compound will lead to a better understanding of the mechanisms involved in responses to specific environmental agents which are included in the mission responsibility of the NIEHS.

**Awards:** Application budgets are limited to $400,000 direct cost per year and should reflect the actual needs of the proposed project.

**Letter of Intent:** 30 days prior to the application due date

**Deadline:** December 3, 2018; December 2, 2019; December 1, 2020, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Grant Program:** NLM Research Grants in Biomedical Informatics and Data Science (R01 Clinical Trial Optional)

**Agency:** National Institutes of Health NLM PAR-18-896


**Brief Description:** The National Library of Medicine (NLM) supports innovative research and development in biomedical informatics and data science. The scope of NLM's interest in these research domains is broad, with emphasis on new methods and approaches to foster data driven discovery in the biomedical and clinical health sciences as well as domain-independent, reusable approaches to discovery, curation, analysis, organization and management of health-related digital objects. Biomedical informatics and data science draw upon many fields, including mathematics, statistics, information science, computer science and engineering, and social/behavioral sciences. Application domains include health care delivery, basic biomedical research, clinical and translational research, precision medicine, public health,
biosurveillance, health information management in disasters, and similar areas. Biomedical informatics is the interdisciplinary field that studies and pursues the effective uses of biomedical data, information, and knowledge for scientific inquiry, problem solving and decision making, motivated by efforts to improve human health. NIH defines data science as the interdisciplinary field of inquiry in which quantitative and analytical approaches, processes, and systems are developed and used to extract knowledge and insights from increasingly large and/or complex sets of data.

**Awards:** Application budgets are limited to $250,000 per year in direct costs and need to reflect the actual needs of the proposed project.

**Letter of Intent:** Not required

**Deadline:** Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Grant Program:** BRAIN Initiative: Development of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in Human and Non-Human Primate Brain (UG3/UH3 Clinical Trial Optional)

**Agency:** National Institutes of Health RFA-MH-19-135


**Brief Description:** This FOA is designed to support development and validation of novel tools to facilitate the detailed analysis and/or manipulation of cells and circuits and provide insights into the neural circuitry and structure underlying complex behaviors in humans and non-human primates and other mammalian brains (e.g., sheep, pig). The human brain consists of an estimated one hundred billion neurons and similar number of supporting glial cells that are uniquely organized to confer the extraordinary computational activities of the brain. Considerable progress has been made in defining the cytology and signal transduction processes in the CNS, but circuit-level function and the neural mechanisms of cognition and behavior remain poorly understood. Cell-type and circuit-specific manipulation strategies are key technical factors in addressing these important areas and represent attractive strategies to treat brain disorders. This initiative is focused on developing tools (or vastly improving existing tools) that will ultimately enable access to individual cells and defined groups of cells within neuronal circuits of the human brain. In order to achieve these goals, it is acknowledged that the use of large brains such as non-human primates, sheep and pig will be instrumental in this process. Development of tools that are applicable to human or non-human primate brains should focus on overcoming barriers to use of such tools (i.e., opto/chemo and magnetogenetic actuators). The tools sought through this FOA can include novel genetic or non-genetic methods for targeted delivery of genes, proteins, and chemicals to specific cells or tightly defined cell types and circuits.

Development of novel tools that will delineate anatomical connections between cells and expand our knowledge of circuit architecture and function is an area well poised for additional investment. Several efforts are currently underway to study large-scale, long-range connections, such as the NIH Human Connectome Project, as well as large scale rodent connectional studies. Recent development of innovative technologies (e.g., CLARITY, expansion microscopy, MERFISH, and several other imaging breakthroughs) allows an unprecedented three-dimensional view into the post-mortem brain. While still at an early stage, these exciting technologies hold promise for mapping short- and long-range connections throughout the brain. Coupled with improved activity monitoring technologies in awake, behaving animals, these new tools promise an understanding of circuitry in action. Further development of these technologies is crucial to push the envelope beyond our current capabilities. To this end, applicants from the biological sciences are encouraged to establish collaborations with engineers, chemists, material scientists, nanobiologists, and colleagues in other disciplines to develop groundbreaking approaches to study brain activity.
Awards: Application budgets are not limited but need to reflect the actual needs of the proposed project.
Letter of Intent: 30 days prior to the application due date.
Deadline: October 9, 2018; September 26, 2019 and September 28, 2020, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

Department of Defense/US Army/DARPA/ONR

Grant Program: AFRL/RXC Structural Materials Open BAA
Agency: Department of Defense Air Force -- Research Lab FA8650-18-S-5010
Website: http://cdmrp.army.mil/funding/dmrdp
Brief Description: Air Force Research Laboratory, Materials & Manufacturing Directorate, Structural Materials Division, AFRL/RXC, is soliciting white papers and potentially technical and cost proposals under this announcement that support the needs of its Structural Materials and Applications mission. Structural Materials technologies that range from materials and scientific discovery through technology development and transition are of interest. Descriptors of Materials and Manufacturing Directorate technology interests are presented in two contexts in the Statement of Objectives (BAA Attachment 1); that of structural materials science and engineering academic “competencies,” and that of Air Force application area needs.
Awards: Up to $5,000,000; Available program funding: $99,500,000
Proposal Deadline:
White Paper Submission: 20 September 2023
Proposal Submission: Due followed by white paper submission and review
Contact Information: Adrianna Menker Contracting/Grants Officer Phone 937-713-9924

Grant Program: Information Innovation Office (I2O) Office-wide
Agency: Department of Defense DARPA HR001118S0057
Website: https://www.fbo.gov/index?s=opportunity&mode=form&id=231c6de648bed959a18d8a439f1f32dd&tab=core&cview=1
Brief Description: Modern society depends on information and information depends on information systems. Timely, insightful, reliable, and relevant information is essential, particularly for national security. The Information Innovation Office (I2O) sponsors basic and applied research in three thrust areas to ensure information advantage for the U.S. and its allies:
• Symbiosis. I2O envisions a future in which machines are more than just tools that execute human-programmed rules or generalize from human-curated data sets: rather, machines will become partners in problem solving. Enabling computing systems in this manner is of critical importance because sensor, information, and communication systems generate data at rates far beyond what humans can assimilate and understand for enabling effective action. Incorporating these technologies into military systems that collaborate with warfighters will facilitate better decisions in complex, time-critical, battlefield environments; enable a shared understanding of massive, incomplete, and contradictory information; and enable unmanned systems collaborating with human warfighters to perform missions safely and with higher degrees of autonomy.
• Analytics. The human domain is an increasingly important aspect of military strategy. What has changed is the capability to interact with populations on a global scale through the connectedness provided
by the Internet, social media and other information ecosystems. We need analytical tools and technologies that rapidly transform the data and information in these ecosystems into effective courses of action for conflict resolution, stabilization, and other complex challenges. These tools and technologies enable an emerging data-centric paradigm: collect/curate data emphasizing the human domain but inclusive of all other domains; analyze data for entities, relationships, and trends; synthesize models for situational awareness, prediction, and intervention; and engage allies, stakeholders, and adversaries through appropriate channels.

- **Cyber.** Direct cyber threats against our information systems have grown in sophistication and number. Adversaries have at their disposal a growing diversity of means (including advanced persistent threats, botnets, denial of service attacks, and other sophisticated capabilities) with which to threaten critical infrastructure, embedded computing systems, cyber-physical systems, and enterprise information systems. The information and operational technology used in networks and systems must operate through a cyber-attack or enable rapid recovery from such an attack. Subtle or overt escalations of cyber conflict intensity and adversary attacks must be detected, understood, and attributed in a timely fashion. The U.S. must have the ability to mount an accurate, timely, effective, and appropriately-scaled cyber response to any cyber-attack, a response that is calibrated to discourage further escalation.

**Awards:** Multiple awards are anticipated. The level of funding for individual awards made under this solicitation has not been predetermined and will depend on the quality of the proposals received and the availability of funds.

**Proposal Deadline:** Posting Date: September 14, 2018 o Abstract Due Date: July 18, 2019, 12:00 noon (ET) o Proposal Due Date: August 30, 2019, 12:00 noon (ET)

**Contact Information:** BAA Coordinator, DARPA/I2O • BAA Email: [HRO01118S0057@darpa.mil](mailto:HRO01118S0057@darpa.mil)

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**Grant Program:** Complex Traumatic Brain Injury Rehabilitation Research Clinical Research Award  
**Agency:** Department of Defense Dept. of the Army – USAMRAA W81XWH-18-CTRR-CRA  
**Website:** [http://cdmrp.army.mil/funding/dmrdp](http://cdmrp.army.mil/funding/dmrdp)  
**Brief Description:** The FY18 PH/TBIRP CTRR-CRA is intended to support clinical research focused on understanding the clinical sequelae and mechanisms of recovery associated with TBI and TBI rehabilitation interventions. The overarching goals of this award are to address TBI-related impairments and deficits, including multimodal, and cognitive dysfunction to (1) develop and validate rehabilitation outcome measures; (2) systematically analyze standard of care cognitive interventions to identify optimal treatment ingredients; and (3) improve clinician-driven assessment strategies to guide return-to-duty decision making.

The FY18 PH/TBIRP CTRR-CRA mechanism supports applied and translational clinical research to advance the development of knowledge and materiel products for rehabilitation and restoration of function following TBI. Applicants should explain how their work will inform the development, refinement, and/or revision of existing standards of care, clinical recommendations, or guidelines.

**Awards:** Various; Available Funding: $4,000,000.

**Proposal Deadline:** Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 24, 2018 • Invitation to Submit an Application: October 2018 • Application Submission Deadline: 11:59 p.m. ET, December 17, 2018

**Contact Information:** CDMRP Help Desk Phone: 301-682-5507 Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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**Grant Program:** Young Faculty Award  
**Agency:** Department of Defense DARPA DARPA-RA-18-02  
**Brief Description:** The Defense Advanced Research Projects Agency (DARPA) Young Faculty Award (YFA) program aims to identify and engage rising stars in junior faculty positions in academia and equivalent positions at non-profit research institutions and expose them to Department of Defense (DoD) and National Security challenges and needs. In particular, this YFA will provide high-impact funding to elite researchers early in their careers to develop innovative new research directions in the context of enabling transformative DoD capabilities. The long-term goal of the program is to develop the next generation of scientists and engineers in the research community who will focus a significant portion of their future careers on DoD and National Security issues. DARPA is particularly interested in identifying outstanding researchers who have previously not been performers on DARPA programs, but the program is open to all qualified applicants with innovative research ideas.

**Eligibility Requirements:** Participation in the YFA program is limited to any current tenure-track Assistant or Associate Professors and to tenured Assistant or Associate Professors within three (3) years of their tenure appointment at a U.S. institution of higher education or equivalent at a U.S. non-profit science and technology research institutions. Proposals are not being sought from foreign organizations; however, foreign organizations may be a member of a team in a subcontractor role. Previous YFA recipients are not eligible to apply to this or any future YFA program. Please see Section III for more details.

**Awards:** Each award will include a 24-month base period (a maximum of $500,000) and a 12-month option period (a maximum of $500,000).

**Proposal Deadline:** Executive Summary Due Date: September 10, 2018, 4:00 p.m. FAQ Submission Deadline: November 8, 2018, 4:00 p.m. See Section VIII.A. Full Proposal Due Date: November 13, 2018, 4:00 p.m.

**Contact Information:** RA Coordinator YFA2019@darpa.mil

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**Grant Program:** BROAD AGENCY ANNOUNCEMENT (BAA) for Extramural Biomedical Research and Development

**Agency:** Department of Defense Dept. of the Army – USAMRAA W81XWH-18-S-SOC1


**Brief Description:** This BAA is intended to solicit extramural research and development ideas using the authority provided by United States Code, Title 10, Section 2358. This BAA is issued under the provisions of the Competition in Contracting Act of 1984 (Public Law 98-369), as implemented in Federal Acquisition Regulation 6.102(d) (2) and 35.016 and in DoD Grant and Agreement Regulations (DoDGARs) 22.315. In accordance with FAR 6.102, projects funded under this BAA must be for basic and applied research to support scientific study and experimentation directed toward advancing the state-of-the-art or increasing knowledge or understanding rather than focusing on development of a specific system or hardware solution. Research and development funding through this BAA are intended and expected to benefit and inform both military and civilian medical practice and knowledge. This BAA provides a general description of USSOCOM’s research and development programs, including research areas of interest, evaluation and selection criteria, pre-proposal/preapplication and full proposal/application preparation instructions, and general administrative information. Submission of a pre-proposal/pre-application is required. After review, if the USSOCOM is interested in receiving a full proposal/application, the Applicant or Offeror will be invited to submit a full proposal or full application. Specific submission information and additional administrative requirements can be found in the document titled “General Submission Instructions” available in Grants.gov along with this BAA.

**Pre-proposal:** Required. All pre-applications for both extramural and intramural organizations must be submitted through eBRAP ([https://eBRAP.org/](https://eBRAP.org/)).

**Awards:** Total Funding Available: $4,500,000
Proposal Deadline: 31 July, 2023, 11:59 p.m. Eastern Time
Contact Information: Questions related to BAA content or submission requirements as well as questions related to the submission of the pre-proposal/pre-application through eBRAP should be directed to the EBRAP Help Desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. Eastern Time. Response times may vary depending upon the volume of inquiries. Phone: 301-682-5507 Email: help@eBRAP.org

Grant Program: NRL Long Range Broad Agency Announcement (BAA) for Basic and Applied Research
Agency: Department of Defense Naval Research Laboratory N00173-18-S-BA01
Website: https://www.nrl.navy.mil/doing-business/Current-NRL-BAA
Brief Description: The Naval Research Laboratory (NRL) The Naval Research Laboratory (NRL) is the Navy's corporate laboratory. NRL conducts basic and applied research for the Navy in a variety of scientific and technical disciplines. The basic research program is driven by perceptions about future requirements of the Navy. NRL conducts most of its research program at its own facilities but also funds some related research such as anticipated by this announcement. More extensive research support opportunities are available from the Naval Research Laboratory (NRL). NRL announcements may be accessed via the Internet at https://www.nrl.navy.mil/doingbusiness/contracting-division/boa. NRL is interested in receiving proposals for Long-Range Science and Technology (S&T) Projects which offer potential for advancement and improvement of Navy and Marine Corps operations. Readers should note that this is an announcement to declare NRL’s broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines. A brief description of the NRL Program Codes and the science and technology thrusts that NRL is pursuing is provided below. Additional information can be found at the NRL website at https://www.nrl.navy.mil/research/directorates-divisions/. This announcement is an expression of interest only and does not commit the Government to make any award or to pay for any proposal preparation costs. The cost of proposal preparation for response to a BAA is not considered an allowable direct charge to any resultant contract or any other contract; however, it may be an allowable expense to the normal bid and proposal indirect cost specified in FAR 31.205-18.
Awards: Various
Proposal Deadline: May 9, 2019
Contact Information: Mary Johnson Contract Specialist Phone 202-767-2021

Department of Education

Grant Program: Institute of Education Sciences (IES): Education Research CFDA Number 84.305A
Agency: Department of Education ED-GRANTS-052118-001
Brief Description: Each funding opportunity description is a synopsis of information in the Federal Register application notice. For specific information about eligibility, please see the official application notice. The official version of this document is the document published in the Federal Register. Free Internet access to the official edition of the Federal Register and the Code of Federal Regulations is available on GPO Access at: http://www.access.gpo.gov/nara/index.html. Please review the official application notice for pre-application and application requirements, application submission information, performance measures, priorities and program contact information.
For the addresses for obtaining and submitting an application, please refer to our Common Instructions for Applicants to Department of Education Discretionary Grant Programs, published in the Federal Register on February 12, 2018 (83 FR 6003) and available at www.gpo.gov/fdsys/pkg/FR-2018-02-12/pdf/2018-02558.pdf.

The dates when applications are available and the deadlines for transmittal of applications invited under this notice are indicated in the chart at the end of this notice and in the Requests for Applications (RFAs) that are posted at the following websites: https://ies.ed.gov/funding, https://www.ed.gov/programs/edresearch/index.html, and https://www.ed.gov/programs/specialedresearch/index.html.

Purpose of Program: In awarding these grants, the Institute of Education Sciences (Institute) intends to provide national leadership in expanding fundamental knowledge and understanding of (1) developmental and school readiness outcomes for infants and toddlers with or at risk for a disability, (2) education outcomes for all students from early childhood education through postsecondary and adult education, and (3) employment and wage outcomes when relevant (such as for students who engaged in career and technical, postsecondary, or adult education). The Institute's research grant programs are designed to provide interested individuals and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. These interested individuals include parents, educators, students, researchers, and policymakers. In carrying out its grant programs, the Institute provides support for programs of research in areas of demonstrated national need.

Competitions in This Notice: The Institute will conduct nine research competitions in FY 2019 through two of its centers: The Institute's National Center for Education Research (NCER) will hold a total of five competitions—one competition in each of the following areas: Education research; education research and development centers; statistical and research methodology in education; partnerships and collaborations focused on problems of practice or policy; and low-cost, short-duration evaluation of education interventions.

Catalog of Federal Domestic Assistance (CFDA) numbers 84.305A, 84.305C, 84.305D, 84.305H, 84.305L, 84.324A, 84.324B, 84.324L, and 84.324N.

Awards: Up to $4,000,000. Estimated total funding: $115,000,000


Contact Information: Julius Cotton ED Grants.gov FIND Systems Admin. Phone 202-245-6288 EducationGrantInquiries@ed.gov
Program Manager: Molly Faulkner-Bond e-Mail: Molly.Faulkner-Bond@ed.gov.

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EPA

Grant Program: Practical Methods to Analyze and Treat Emerging Contaminants (PFAS) in Solid Waste, Landfills, Wastewater/Leachates, Soils, and Groundwater to Protect Human Health and the Environment
Agency: Environmental Protection Agency   EPA-G2018-STAR-B1
EPA-G2018-STAR-B1, Practical Methods to Analyze and Treat Emerging Contaminants (PFAS) in Solid Waste, Landfills, Wastewater/Leachates, Soils, and Groundwater to Protect Human Health and the Environment
Website: https://www.epa.gov/research-grants/practical-methods-analyze-and-treat-emerging-contaminants-pfas-solid-waste-landfills#Award

**Brief Description:** The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research that will lead to: (1) better understanding and characterization of the types and quantities of current and historical per- and polyfluoroalkyl substances (PFAS) and PFAS-containing waste associated with waste disposal (e.g., landfills), as well as media containing PFAS released from these activities (e.g., PFAS in leachate collected by landfills or PFAS leaching to subsurface soils and groundwater); (2) increased knowledge of the fate, transport, potential for degradation or other changes to PFAS, and their mobility during materials management (e.g., under different landfill conditions such as pH, temperature, moisture content) that facilitate or retard such transformation or movement; and (3) new or improved methods that are more effective, efficient (in cost, energy, etc.), and practical in controlling, treating, destroying, or removing PFAS in waste and wastewater, landfill leachates, biosolids, or environmental media. The main goal is to promote innovation in evaluating and managing PFAS in solid waste, landfills, and environmental media that will lead to improved decision making, management practices, and technical methods to minimize the risks to both humans and ecosystems.

This solicitation provides the opportunity for the submission of applications for projects that may involve human subjects research. Human subjects research supported by the EPA is governed by EPA Regulation 40 CFR Part 26 (Protection of Human Subjects). This includes the Common Rule at subpart A and prohibitions and additional protections for pregnant women and fetuses, nursing women, and children at subparts B, C, and D. Research meeting the regulatory definition of intentional exposure research found in subpart B is prohibited by that subpart in pregnant women, nursing women, and children. Research meeting the regulatory definition of observational research found in subparts C and D is subject to the additional protections found in those subparts for pregnant women and fetuses (subpart C) and children (subpart D). All applications must include a Human Subjects Research Statement (HSRS, as described in Section IV.C.5.c of this solicitation), and if the project involves human subjects research, it will be subject to an additional level of review prior to funding decisions being made as described in Sections V.D and V.E of this solicitation.

**Awards:** Up to a total of $900,000 for a regular award and up to a total of $500,000 for an early career award; Available Funding: $6,000,000

**Submission Deadline:** Full Application Submission Deadline: October 2, 2018

**Contact Information:**
- Technical Contact: Intaek Hahn (hahn.intaek@epa.gov); phone: 202-564-4377
- Eligibility Contact: Ron Josephson (josephson.ron@epa.gov); phone: 202-564-7823

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**Department of Energy**

**Grant Program:** Advanced Solar Systems Integration Technologies Notice of Intent (NOI)

**Agency:** Department of Energy   DE-FOA-0001986

**Website:** https://eere-exchange.energy.gov/Default.aspx#FoaId2bbe24fe-f075-4d1b-8ab7-0df723807696

**Brief Description:** The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Solar Energy Technology Office, a Funding Opportunity Announcement (FOA) entitled “Advanced Solar Systems Integration Technologies”. This FOA supports the mission of the Solar Energy Technologies Office (SETO) which is to support early-stage research and development to improve the performance and flexibility of solar technologies that contribute to a reliable and resilient U.S. electric grid. The office invests in innovative research efforts that securely integrate more solar energy into the...
grid, enhance the use, storage and dispatch of solar energy, and lower solar electricity costs. DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector’s capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

**Awards:** This is a Notice of Intent

**Submission Deadline:** October 1, 2018

**Contact Information:** Clay L. Pfrangle  seto.foa@ee.doe.gov

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**Grant Program:** Machine Learning for Geothermal Energy

**Agency:** Department of Energy  DE-FOA-0001956

**Website:** [https://eere-exchange.energy.gov/](https://eere-exchange.energy.gov/)

**Brief Description:** The U.S. Department of Energy’s Geothermal Technology Office (GTO) Machine Learning for Geothermal Energy funding opportunity announcement (FOA) supports projects that will develop new analytical tools for finding and developing geothermal resources and establish the practice of machine learning in geothermal operations. The rapidly advancing field of Machine Learning (ML) offers substantial opportunities for technology advancement and cost reduction throughout the geothermal project lifecycle, from resource exploration to power plant operations. Under this funding opportunity, GTO is interested in two topic areas:

**Topic 1: Machine Learning for Geothermal Exploration** - GTO seeks projects that advance geothermal exploration through the application of machine learning techniques to geological, geophysical, geochemical, borehole, and other relevant datasets. Of particular interest to GTO are projects that will identify data acquisition targets and build community datasets for future work.

**Topic 2: Advanced Analytics for Efficiency and Automation in Geothermal Operations** - GTO seeks projects that apply advanced analytics to power plant and other operator datasets, with the goal of improving operations and resource management.

For questions and answers pertaining to this FOA, please reference the DE-FOA-0001956 Machine Learning FAQ Log in FOA Documents.

**Awards:** Up to $700,000; Available Funding: $3,600,000

**Submission Deadline:**
- Concept Paper Submission Deadline: 8/23/2018 5:00 PM ET
- Full Application Submission Deadline: 11/1/2018 5:00 PM ET

**Contact Information:**
- EERE-ExchangeSupport@hq.doe.gov For Exchange related support and issues.
- machinelearninggeo@ee.doe.gov For questions regarding the FOA

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**NASA**

**Grant Program:** Solar System Exploration Research Virtual Institute Cooperative Agreement Notice (SSERVI CAN-3)

**Agency:** NASA NNH18ZDA018C

**Website:** [https://nspires.nasaprs.com/external/solicitations/summary!init.do?solId=%7BDBFE67A3-498A-66A0-3102-3F100B5D0779%7D&path=open](https://nspires.nasaprs.com/external/solicitations/summary!init.do?solId=%7BDBFE67A3-498A-66A0-3102-3F100B5D0779%7D&path=open)

**Brief Description:** NASA, through the release of this Cooperative Agreement Notice (CAN), is announcing an opportunity for the submission of multi-institutional team-based proposals for research as participating members of the Solar System Exploration Research Virtual Institute (SSERVI), hereafter referred to as “the Institute.” Proposals must clearly articulate an innovative research program addressing basic and/or applied research fundamental to understanding the nature of the Moon, Near Earth Asteroids
(NEAs), the martian moons Phobos and Deimos, and the near space environments of these bodies, to enable eventual human exploration of these destinations. Although the Institute will continue to support research addressing all of these potential human exploration destinations, in light of the administration’s focus on returning to the Moon, as well as the near-term opportunities that will be provided by the burgeoning commercial lunar industry, proposals which address these near-term lunar needs and opportunities will be given preference. Proposed research that complements current CAN-2 Institute Teams, and/or addresses important research areas not currently covered in the Institute, will be given strong consideration (see: http://sservi.nasa.gov/sserviteams/).

**Awards:** Various

**Proposal Deadline:**
- Step-1 Proposal due on October 19, 2018
- Step-2 Full proposals are due: 11:59 PM Eastern Time on December 18, 2018.

**Contact:** Dr. Sarah Noble Science Mission Directorate NASA Headquarters HQ-SSERVI@mail.nasa.gov

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**Grant Program:** Use of the NASA Physical Sciences Informatics System - Appendix E

**Agency:** NASA NNH17ZTT001N-17PSI-E

**Website:** https://nspires.nasapsr.com/external/solicitations/summary!init.do?solId={2AF0A877-0C3F-8E34-5954-223EAD4CBB4}&path=open

**Brief Description:** This National Aeronautics and Space Administration (NASA) Research Announcement (NRA) solicits ground-based research proposals using an open science approach to develop new analyses and generate new scientific insights by utilizing experimental data residing in NASA’s Physical Sciences Informatics (PSI) system (https://psi.nasa.gov), an online database of completed physical science reduced-gravity flight experiments conducted on the International Space Station (ISS), on Space Shuttle flights, or on Free Flyers, and related ground-based studies. The goals of this NRA are to: a) promote investigations making use of currently available experimental data resulting in more scientists participating in reduced-gravity research; b) allow new areas of research and discovery to occur more quickly through open access; and c) accelerate the “research to product or publication” timeline through the rapid sharing of data. The PSI system allows researchers to data mine information generated by experiments conducted as part of NASA’s Physical Sciences Research Program in support of NASA’s Space Life and Physical Sciences Research and Applications (SLPSRA) Division. In this manner PSI meets the requirements of the nation’s Open Data Policy, which states that “Government information shall be managed as an asset throughout its life cycle to promote interoperability and openness, and, wherever possible and legally permissible, to ensure that data are released to the public in ways that make the data easy to find, accessible, and usable.” (Executive Order May 9, 2013, “Making Open and Machine Readable the New Default for Government Information”). In accordance with this policy, all awardees from this NRA must upload data, new analytical or numerical models, tools, and software produced from the funded research into the PSI system. This solicitation is open to researchers from all categories of U.S. and non-U.S. organizations, including educational institutions, industry, nonprofit organizations, NASA Centers, and other U.S. Government agencies. This NRA is soliciting proposals from two types of investigators: 1) established researchers from all categories of U.S. and non-U.S. organizations; 2) graduate students (with advisors) from accredited U.S. postsecondary institutions and programs. The proposals from graduate students must be submitted by their advisor.

**Awards:** Various

**Notice of Intent:** Not Required

**Proposal Deadline:** December 14, 2018

**Contact:** Dr. Francis Chiaramonte, Program Scientist for Physical Sciences NASA Headquarters E-mail: francis.p.chiaramonte@nasa.gov
National Endowment of Humanities

Grant Program: Humanities Connections Implementation Grants
Agency: National Endowment of Humanities
Website: https://www.neh.gov/grants/education/humanities-connections-implementation-grants

Brief Description: The Humanities Connections program seeks to expand the role of the humanities in undergraduate education at two- and four-year institutions. Awards will support innovative curricular approaches that foster productive partnerships among humanities faculty and their counterparts in the social and natural sciences and in pre-service or professional programs (such as business, engineering, health sciences, law, computer science, and other technology-driven fields), in order to encourage and develop new integrative learning opportunities for students.

Competitive applications will demonstrate
- that the proposed curricular projects address significant and compelling topics or issues in undergraduate education at the applicant institution(s);
- that these projects develop the intellectual skills and habits of mind cultivated by the humanities;
- that faculty and students will benefit from meaningful collaborations in teaching and learning across disciplines as a result of the project.

Humanities Connections projects have four core features:
1. integration of the subject matter, perspectives, and pedagogical approaches of two or more disciplines (with a minimum of one in and one outside of the humanities);
2. collaboration between faculty from two or more separate departments or schools at one or more institutions;
3. experiential learning as an intrinsic part of the curricular plan; and
4. long-term institutional support for the proposed curriculum innovation(s).

Award: Up to $100,000
Proposal Deadline: October 17, 2018
Contact: Contact the staff of NEH’s Division of Education Programs at 202-606-8337 or humanitiesconnections@neh.gov.

Michael J. Fox Foundation

Grant Program: Research and Open Innovation
Agency: Michael J. Fox Foundation
Website: https://www.michaeljfox.org/research/apply-for-grant.html

Brief Description: The Michael J. Fox Foundation works tirelessly to accelerate promising research toward breakthroughs for Parkinson's patients. While our strong emphasis is on funding translational and clinical research, we also support high-risk/high-reward discovery work. Learn more about our priorities on our Research Strategy page.

In addition to funding, awardees benefit from working with our internal research staff and broad network of scientific and industry advisors.

Award: Various
Funding Webinar: September 6, 2018
Pre-Proposal Deadline: September 26, 2018
University Nomination Process and Contact: If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu).

ACI Foundation

Grant Program: Concrete Research
Agency: ACI Foundation
Website: https://www.acifoundation.org/research
Brief Description: The ACI Foundation’s Concrete Research Council (CRC) seeks to advance the concrete industry through the funding of concrete research projects that further the knowledge and sustainability of concrete materials, construction, and structures in coordination with ACI Committees where possible.
Awards: Up to $50,000 may be approved per project for direct costs;
Proposal Deadline: December 1, 2018
Contact: Please let Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu) know if you are interested in applying.

Samsung

Grant Program: The Global Research Outreach (GRO) Program
Agency: Samsung
Website: https://www.sra.samsung.com/partnerships/university/
Brief Description: Theme: EXPLAINABLE DEEP LEARNING MODELS - Sub Theme: Explainable Models in Multi-modal Applications The task of explaining Deep Learning (DL) models has gained a lot of interest from the research community in recent times. In this GRO, we propose studying explainability of DL models, specifically via two problems: (a) Explainable Multi-modal Visual Dialog: There are many scenarios in mobile phone or desktop usage where a user inspects an image (e.g., a picture shared on the phone or an image obtained while browsing the web) and asking questions about it (e.g., where was this picture taken) – this is the problem of Visual Question Answering (VQA). The user may also ask for explanations for the answers generated in VQA (e.g., why you think so) – this is the task of Explainable Question Answering (XQA). However, while using a conversational assistant like Samsung Bixby, the user may be involved in a multi-modal dialog with the assistant, using text input, speech, etc. Those additional user input may contain rich context information for the assistant to understand and digest. As the assistant interacts with the user in a conversation across multiple modalities, the user may ask for explanations at different stages -- we call this the problem of Explainable Multi-modal Visual Dialog. (b) Explainable Recommendations: The Bixby assistant often makes shopping suggestions or other purchase recommendations to the user (e.g., based on an image that is taken from the camera album, based on a spoken purchase request made by the user, etc.). One of the research goals in such a recommendation system could be explaining the underlying reason of the recommendations made during immersive interactive experiences (e.g., when shopping for items online using Bixby vision, using the point-and-shoot camera).
Theme: Beyond 5G Communication Systems - Sub Theme: Components for Terahertz Communication Systems Terahertz (THz) frequency band, 0.1 to 10 THz, offers vast spectrum resources to support >100Gbps for beyond 5G communication systems. FCC is currently considering to open the 95 - 475 GHz range for commercial use. Key component challenges for THz communication are low noise/high gain amplification, high linearity transmit power generation, low noise oscillators, and THz frequency conversion. Short wavelengths (3mm @ 100GHz) THz present challenges in conventional antenna
element fabrication, while on-chip antennas traditionally exhibit reduced efficiency. Additional challenges arise from increased path loss and the resulting increase in antennas required for sufficient link margin. The latter offers opportunities in spatial spectrum reuse by taking advantage of the resulting pencil-beam transmissions.

**Awards:** Financial sponsorship for one year, in amounts up to $120,000

**Contact:** Please let Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu) know if you are interested in applying.

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**Simons Foundation**

**Grant Program: Simons Investigator program in the Mathematical Modeling of Living Systems (MMLS)**

**Simons Foundation Fellowships in Math and Theoretical Physics**

**Agency: Simons Foundation**

**Website:**
- [https://www.simonsfoundation.org/mathematics-physical-sciences/simons-investigators/simons-investigator-program-nominations/](https://www.simonsfoundation.org/mathematics-physical-sciences/simons-investigators/simons-investigator-program-nominations/)
- [https://www.simonsfoundation.org/grant/simons-fellows-in-mathematics/?tab=rfa](https://www.simonsfoundation.org/grant/simons-fellows-in-mathematics/?tab=rfa) --- Simons Fellows in Mathematics

**Brief Description:** The Simons Foundation invites nominations for Simons Investigators in the Mathematical Modeling of Living Systems (MMLS), a joint program of the Mathematics and Physical Sciences and Life Sciences divisions of the Simons Foundation. Investigators in MMLS are outstanding scientists, often with mathematics or theoretical physics backgrounds, now engaged in research based on mathematical modeling in the life sciences.

New approaches in mathematically based modeling are making increasingly important contributions to the life sciences. The MMLS program aims to support theoretical approaches making important contributions to the life sciences and, thus, to foster a scientific culture of theory-experiment collaborations similar to that prevailing in physics. To encourage researchers to pursue this endeavor, the MMLS program will provide a long-term, stable base of support, enabling a focus on model based approaches to important issues in the life sciences. A broad spectrum of research areas within the life sciences will be considered, ranging from cellular-level issues of organization, regulation, signaling and morphogenic dynamics to the properties of organisms and ecology, as well as neuroscience and evolution; however, preference will be given to areas in which modeling approaches are less established and, for this reason, bioinformatics- and genomics-related proposals fall outside the scope of the program. In all cases, preference will be given to work developing deep theoretical ideas relevant to experiments, suggesting new questions and new classes of experiments, introducing important, new concepts, and explaining data.

Theory must connect with experiment, and candidates should articulate their own views about the nature of this connection, rather than accepting conventional wisdom; theory is more than data analysis. The program explicitly does not support translational or specifically human disease– related research.

**Eligibility:** To be eligible to be nominated for an Investigator in MMLS award, a scientist must be engaged in research related to the MMLS program and must not previously have been a Simons Investigator. He/she must have a primary appointment as a faculty member (tenured or non-tenured) at an educational institution in the United States, Canada, the United Kingdom or Ireland, on a campus within these countries, and the primary department affiliation must have a Ph.D. program. At the time of the appointment start date, an Investigator should be in the early stages of an academic career and must be within ten years of the start of his/her first faculty position.
Award: A Simons Investigator in MMLS is appointed for a period of five years for up to $132,000 per year. Appointments will begin August 1, 2019. An Investigator will receive research support in the amount of $100,000 per year. An additional $10,000 per year will be provided to the Investigator’s department. The Investigator’s institution will receive an additional 20 percent per year in indirect costs. Proposal Deadline: The deadline to submit nominations is October 31, 2018, at 11:59:59 p.m. EST.

University Nomination Process and Contact: If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu) and copy to college dean to discuss the nomination before August 1, 2018.

Grant Program: Simons Foundation Fellowships in Math and Theoretical Physics
Agency: Simons Foundation
Website: https://www.simonsfoundation.org/grant/simons-fellows-in-theoretical-physics/?tab=rfa -- Simons Fellows in Theoretical Physics.
https://www.simonsfoundation.org/grant/simons-fellows-in-mathematics/?tab=rfa --- Simons Fellows in Mathematics

Brief Description: The Simons Foundation’s Mathematics and Physical Sciences (MPS) division invites applications for the Simons Fellows in Theoretical Physics program, which is intended to make sabbatical leaves more productive by extending them to a full academic year. The MPS division’s scientific advisory board will advise the foundation on the selection of awardees. Awards will be based on the applicant’s scientific accomplishments in the five-year period preceding the application and on the potential scientific impact of the work to be done during the leave period.

Eligibility Requirements: A Simons Fellow in Theoretical Physics must have a teaching or administrative tenured position at the same U.S. or Canadian college or university within the physics or related department at the time of application, throughout the course of the sabbatical and in the term following the leave. This must be the applicant’s primary position. In addition, a Fellow must have an active current research program. Fellows cannot simultaneously hold a Simons Investigator award.

Award: A Simons Fellowship in Theoretical Physics/Mathematics provides salary replacement for up to 50 percent (up to a maximum of $100,000) of the Fellow’s current academic-year salary, whether normally paid over 9 or 12 months, and up to $25,000 for expenses related to the leave. The Fellow’s home institution will receive an additional 20 percent overhead on allowable expenses. Please note that the foundation’s indirect cost policy allows up to 20 percent of direct cost expenditures. Any unspent funds at the end of the award must be returned to the Simons Foundation.

Proposal Deadline: September 27, 2018

University Nomination Process and Contact: If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu) and copy to college dean to discuss the nomination before August 1, 2018.

Whitehall Foundation

Grant Program: Research Grants in Neurology
Agency: Whitehall Foundation
Website: http://www.whitehall.org/grants/

Brief Description: Research grants are available to established scientists of all ages working at accredited institutions in the United States. Applications will be judged on the scientific merit and the innovative aspects of the proposal as well as on the competence of the applicant. Research grants of up to three years will be provided. A renewal grant with a maximum of two years is possible, but it will be awarded on a
competitive basis. Research grants will not be awarded to investigators who have already received, or expect to receive, substantial support from other sources, even if it is for an unrelated purpose. 

**Award:** Research grants normally range from $30,000 to $75,000 per year.

**Proposal Deadline:** October 1, 2018

**University Nomination Process and Contact:** If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu).

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**BrightFocus Foundation**

**Grant Program:** Alzheimer's Disease Research Program; Macular Degeneration Research Program; National Glaucoma Research Program

**Agency:** BrightFocus Foundation

**Website:** [https://www.brightfocus.org/grants/types-grants](https://www.brightfocus.org/grants/types-grants)

**Brief Description:** Alzheimer's Disease Research Program

The ADR program offers two types of awards:

**Standard Awards**

The standard award provides significant funding for researchers who have already generated some amount of preliminary data, but are often required to demonstrate additional, significant progress before they can apply to governmental or industrial funding agencies.

- **Award Amount:** $300,000
- **Duration:** 3 years

**Postdoctoral Fellowship Awards**

Postdoctoral fellowship awards are intended for young researchers in their final stages of mentored training. These awards fund projects in an established laboratory that will serve as the basis for the applicant's own independent research career.

- **Award Amount:** $200,000
- **Duration:** 2 years

**Macular Degeneration Research Program**

**Standard Awards**

The standard award provides significant funding for researchers who have already generated some amount of preliminary data, but are often required to demonstrate additional, significant progress before they can apply to governmental or industrial funding agencies.

- **Maximum award value:** $200,000
- **Maximum duration:** 2 years

**National Glaucoma Research Program**

**Standard Awards**

The standard award provides significant funding for researchers who have already generated some amount of preliminary data, but are often required to demonstrate additional, significant progress before they can apply to governmental or industrial funding agencies.

- **Award Amount:** $200,000
- **Maximum Duration:** 2 years

**Proposal Deadline:** September 5, 2018

**University Nomination Process and Contact:** If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu).
Streamlyne Question of the Week

Question: How do I search for a document in Streamlyne?

Searching Across All Modules: In any Streamlyne Research module, please click the magnifying glass on the Menu Bar to access the Document Lookup. This will open up a form to search for any document in any Streamlyne Research module, regardless of whether the document is delivered or customized.

Searching Within a Module: If you would like to search for a document specific to a given module, click the hyperlinked menu option from the Main Menu. Streamlyne Research will direct you to a Lookup form that searches specifically for documents within the module selected.

Searching at the Field Level: Whether you are looking for a data element within a document section or trying to narrow down search criteria, you may search for a specific value by clicking the magnifying glass next to any field. If a magnifying glass does not appear next to a field, it means that the entries for this field are not limited to a set of configured values, and therefore cannot be accessed using the Lookup function.

More FAQs on Streamlyne: Please visit http://www.njit.edu/research/streamlyne/

Streamlyne Information

Streamlyne User Manuals: http://www.njit.edu/research/streamlyne/

Steamlyne_NewUserManual_CommonElements.docx: This manual provides a reference to all the common elements of Streamlyne Research. This user manual is a good document to review each module’s functionality.

Steamlyne_NewUserManual_PD&PDBudget.docx: This is a user manual on proposal and budget development in Streamlyne. The content herein explain the use and functionality of this module. This is the most useful Streamlyne document for PIs and users new to Streamlyne.

How-to-do-Videos

New “How to Do” videos have been posted on the research website http://www5.njit.edu/research/streamlyne/. The videos show step-by-step process on the following tasks:
♦ How to Begin Proposal Submission in Streamlyne
♦ How to Input Proposal Budget
♦ How to Process Approvals
♦ How to Upload Proposal Attachments
♦ How to Search for a Proposal that is in Route
♦ Difference Between "Prime Sponsor Code" and "Sponsor Code"
♦ How to Select an RR Budget, RR Sub-award or Modular Budget
♦ How to Add a Student/Summary
Faculty and staff having any questions on proposal submission, may contact their college representatives, and also follow up with Justin Samolewicz, Associate Director (Pre Award) 973-596-3145; justin.m.samolewicz@njit.edu; and Eric Hetherington, Director, Sponsored Research Programs Administration 973-596-3631; eric.d.hetherington@njit.edu. The college representatives to help PIs on proposal submissions are John McCarthy, NCE Director of Research; (973) 596-3247; john.p.mccarthy@njit.edu; Cristo Leon, CSLA Director of Research; (973) 596-6426; cristo.e.vanezleon@njit.edu; Sean Andrews, YWCC Director of Research; (973) 596-5352; sean.t.andrews@njit.edu; Iris Pantoja, NCE, CoAD and MTSM Project Manager; 973-596-4483; irp3@njit.edu

Need Information about Funding?

**Finding Research Opportunities and Collaborations (FROC)**

*Walk-In Open-Hour Discussion with SVPR Over Tea*

Every Thursday: 3.00 PM-4.00 PM; 340 Fenster Hall

The Office of Research has started a new service to help all faculty and staff explore collaborative research opportunities and currently active RFPs (Request for Proposals) for potential proposal development and submission. Faculty and research staff members are welcome to meet with Senior Vice Provost for Research Atam Dhawan at the open-hour every Thursday from 3.00 PM to 4.00 PM to discuss research opportunities related issues including the following but not limited to:

- Research opportunities and potential collaborations
- Currently active RFPs and developing collaborative teams for proposal submission
- Proposal review criterion for specific RFP/program/agency
- Proposal concept and draft review in the context of review criterion
- Future plans for proposal development and submission
- Invention disclosures, patent applications and processing of intellectual property
- External faculty research awards including fellowships

Though *walk-ins* are welcome during the open-hour, faculty members are encouraged to email SVPR Atam Dhawan (dhawan@njit.edu) about specific questions on research opportunities and needs to be discussed in advance for more detailed discussion.

The open-hour session with individuals or small groups of faculty and research staff members is expected to focus on finding research opportunities, developing collaborative teams, exploring the review criterion and reviewing program requirements. Specific proposal submission and grant management issues can be discussed with Office of Research staff separately.

Enjoy coffee/tea and cookies with SVPR over the discussion.

For any questions and additional information, please send an email to SVPR at dhawan@njit.edu.