

# NJIT Research Newsletter

Issue: ORN-2017-32

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**NJIT Research Newsletter** includes recent awards, and announcements of research related seminars, webinars, national and federal research news related to research funding, and **Grant Opportunity Alerts**. The Newsletter is posted on the NJIT Research Website <http://www.njit.edu/research/>.

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## Special Announcement

### Office of Research Events: Fall 2017

#### **Event: Intellectual Property Open House**

**When:** September 18, 2017; 12.00 PM – 2.00 PM; (Light lunch at 12.00 PM)

**Where:** Ballroom B, Campus Center

**Brief Description:** The IP processing protocol has been revised and implemented through a new organizational structure. The institutional IP Committee has been updated with faculty representation from colleges and areas. Information about the IP Committee, Invention Disclosure form, and IP processing protocol for acquisition of provisional and non-provisional patents is posted on the Office of Research website <http://www.njit.edu/research/department-intellectual-property-and-patents-0/>. The Open House on Intellectual Property and Patents will provide an overview of the new Invention Disclosure form and processes of the IP Committee for review and submission of provisional and non-provisional patents.

Sanjiv M. Chokshi, Esq., Assistant General Counsel for Patents and Intellectual Property, Sangeeta Bafna, Manager, Patents & Licensing Administration, and Judith Sheft, Associate Vice President, Technology Development will provide information and address your questions about IP related processes, marketing and technology transfer.

#### Agenda:

12.00 PM - 12.30 PM: Lunch and Introductions

12.30 PM - 2.45 PM: Organizational Overview: Department of Intellectual Property and Patents, IP Committee and IP Processes: Atam Dhawan

- 12.45 PM - 1.00 PM: Filling of Invention Disclosures: Best Practices and Assessment: Sangeeta Bafna  
1.00 PM - 1.15 PM: Patent Acquisition Process: Provisional and Non-Provisional: Sanjiv Chokshi  
1.15 PM - 1.30 PM: Marketing and Technology Transfer: Judith Sheft and Sageeta Bafna  
1.30 PM - 2.00 PM: Open Forum: Q&A

Please join us to learn more about the process of protecting your research as well as securing intellectual property towards commercialization. **Faculty, researchers, post-docs and staff are invited to attend.**

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**Event: Office of Research Open House**

**Workshop on Research Compliance, Responsible Conduct and Ethics: Recent Updates**

**Workshop on Streamlyne Training Session on Proposal Submission (For New Faculty)**

**When:** September 26, 2017; 11.00 AM – 2.00 PM

**Where:** Ballroom A and B

**Brief Description:** The Fall 2017 Research Open House is hosted by the Office of Research with participation from Accounts Payable, Purchasing, Treasury, and Human Resources. We will have 7 information stations with staff representatives prepared to discuss and answer questions about processes and policies related to research administration. Our goal is to provide information about our policies and procedures and to answer questions from faculty and staff to help them in NJIT's research enterprise. We hope the conversations will strengthen our working relationships with the NJIT research community.

11:00 PM – 12:00 PM: Concurrent Workshops:

Ballroom A: Research Compliance, Responsible Conduct, and Ethics

Ballroom B: Streamlyne Training Session on Proposal Submission

12:00 PM – 12:30 PM: Lunch

12:30 PM – 2:00 PM: Faculty and Staff Conversations at Information Stations: You may ask your questions to the specific team members on each Information Table on the following topics:

- Proposal Submission and Streamlyne
- Research Compliance
- Subcontracts, Consulting, and Legal Agreements
- Intellectual Property and Patents
- Business Services (Travel, Purchasing, and Reimbursement)
- Grant Accounting (Budget Transfers, Personnel Forms Processing, Federal Uniform Guidance)
- Undergraduate Research and Innovation Opportunities and Grants for Undergraduate Students

Please join us to meet the staff in the Office of Research and other administrative offices to know more about research support related processes, and have your questions answered by specific team members.

## **2017 Rutgers BHI-RUN-NJIT Pilot Grants Program in Neuroscience**

### **\$40,000 Faculty Neuroscience Seed Grants**

We are pleased to announce the 2017 pilot grants program in neuroscience at Rutgers University. There are two main objectives of these pilot awards program: (i) to foster **new** collaborative, interdisciplinary research in the neurosciences not only across Rutgers but also NJIT, Kessler Foundation Research Center, East Orange VA Medical Center, and (ii) support pilot experiments that will lead to sustained funding from an external agency (e.g., NIH). There are two categories of pilot grants available; each award is limited to **\$40,000** direct costs and no indirect costs or overhead are allowed. For both type of pilots, collaborative multidisciplinary efforts are encouraged. The deadline for these applications is **5 PM, Friday, October 6<sup>th</sup>, 2017**. The two categories of awards are:

- (i) Translational neuroscience awards – these must address disease mechanisms, focusing on diagnosis, tools or treatments that involve animal models, clinical studies, or basic neuroscience relevant to a future clinical application. *The clinical relevance must be clearly described in the Research Plan.* These pilots require **at least 2 faculty Co-PIs** with appointments from **different Schools** across Rutgers. Formation of teams that integrate basic and clinical themes with a vision of a future translational impact will have preference. **Six** translational pilots are available and are funded by the BHI. Four out of the six BHI-funded pilot awards will only be for applications submitted by faculty co-PIs from RU-New Brunswick and RBHS. The other two can include co-PIs from RUN and NJIT.
- (ii) Basic neuroscience awards – These can include a focus on more basic neural mechanisms, or focus on translational neuroscience experiments involving an animal model or clinical studies. These Basic awards must include **at least 2 Co-PIs, no more than one** of which can be a faculty member at RUN (**Four** awards funded by the RUN Strategic plan fund), or at NJIT (**One** award funded by NJIT).

**Format:** All applications should be formatted as an R21 NIH style application (**1 page** Specific Aims and **6 pages** for the Research Plan). Also include Literature Cited, Budget, Budget Justification, NIH Biosketches for all Key Personnel/Co-PIs, Facilities and Resources and Equipment). Within the Research Plan under the Innovation section please describe explicitly how the pilot funding will promote new collaborations and/or new projects. The application should be single-spaced, use font/size Arial 11 with 0.5 inch page margins. *Funded* applicants from last year seeking a second year of funding must include in addition a **1 page** Introduction that gives a report of progress made in Year 1, grants and papers submitted as well as a clear justification for the need of second year of funding. Applicants will need to submit the Rutgers Endorsement form at submission and be compliant with the University's eFCOI requirements. IRB and IACUC approvals will need to be submitted using the Just-In-Time (JIT) approach. These forms and approvals are not required at the time of initial grant application submission on October 6th; however, awardees will have to submit these items before the funds from the grant award are disbursed. We anticipate that the award announcement will be made in January 2018. It is recommended that the applicants prepare and submit the IACUC/IRB applications associated with the pilot grant project well in advance, to the appropriate institutional committees, in order to get these approvals in a timely-fashion.

*Please note*-the pilot award funds cannot be used for PI and co-PI salaries. Pilot funds can be budgeted for post-doc, student and research technician stipends and salaries. Purchase of equipment costing more than \$5000 needs to be well-justified in the budget. Funds budgeted for purchase of equipment costing more than \$5000 have to be encumbered by June 30<sup>th</sup>, 2018. All applications must include the Cover page (Title, co-PI's, institutions, etc.) accompanying this announcement. The application should be combined into one PDF document with the Cover page in the front. Submit the SINGLE PDF file to [bhi@ca.rutgers.edu](mailto:bhi@ca.rutgers.edu) **5 PM, Friday, October 6th, 2017**

All grants will undergo a dual stage review process, organized by the Brain Health Institute in collaboration with RUN and NJIT. They will have an initial external review to judge scientific quality and assign a priority score by external reviewers (similar to NIH study section review). They then will be reviewed by an internal committee (similar to an NIH Council Review) to allocate funds consistent with the long-term strategies for developing neuroscience research at Rutgers and NJIT and the source of pilot funds. One main factor in determining funding will be perceived likelihood that the pilot data generated will lead to external funding.

All pilot awardees will be required to submit a final progress report within 2 months of the end of the award. This report will include publications and grant applications submitted, as well as results obtained and significance of those results. One PI also will be required to orally present results of the studies at the Annual BHI symposium.

Awards will be announced by January 2018. Additional pilot funding may be available next year; successful applicants from this round can apply for a second year of funding at that point but will compete with new applications as well.

Please contact Gary Aston-Jones or Eldo Kuzhikandathil ([bhi@ca.rutgers.edu](mailto:bhi@ca.rutgers.edu)), Nabil Adam ([adam@adam.rutgers.edu](mailto:adam@adam.rutgers.edu)) or Atam P Dhawan ([atam.p.dhawan@njit.edu](mailto:atam.p.dhawan@njit.edu)) with questions.

Gary Aston-Jones, Ph.D., Director, Brain Health Institute, Rutgers University/Rutgers Biomedical and Health Sciences

Nabil Adam, Ph.D., Vice Chancellor for Research & Collaborations and Founding Director for Rutgers Institute for Data Science, Learning, and Applications, Rutgers University-Newark

Atam P Dhawan, Ph.D., Senior Vice Provost for Research, New Jersey Institute of Technology

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### **Grant Opportunity Alerts**

Keywords and Areas Included in the Grant Opportunity Alert Section Below

**NSF:** NSF/Intel Partnership on Foundational Microarchitecture Research (FoMR); Small Business Innovation Research Program Phase I (SBIR); Small Business Technology Transfer Program Phase I (STTR); Research Coordination Networks (RCN); Inclusion Across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)

**NIH:** NIDDK Partnerships with Professional Societies to Enhance Scientific Workforce Diversity and Promote Scientific Leadership (R25); Understanding and Modifying Temporal Dynamics of Coordinated Neural Activity (R21) and (R01); BRAIN Initiative: Tools to Facilitate High-Throughput Microconnectivity Analysis (R01)

**Department of Defense/US Army/DARPA/ONR:** DoD Hearing Restoration Research Program Focused Research Award; DoD Psychological Health/ Traumatic Brain Injury Research Program, Complex Traumatic Brain Injury Rehabilitation Research Clinical Research Award; Young Faculty Award; DoD Orthotics and Prosthetics Outcomes Research Award

**Department of Energy:** Generation 3 Concentrating Solar Power Systems; RFI: Solar Energy Technology Analysis & Data Needs; Advanced Power Electronics Design for Solar Applications; High-Energy-Density Laboratory Plasma Science; Fossil Fuel Large-Scale Pilots

**NASA:** Use of the NASA Physical Sciences Informatics System

**National Endowment of Humanities:** PhD Planning Grants; Summer Stipends; Research and Development Grants

**Bill and Melinda Gates Foundation:** Grand Challenge Program

**Bright Focus Foundation:** Research Grants and Fellowships

**Streamlyne Update:** New How-to-do Videos

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### **Recent Research Grant and Contract Awards**

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

**PI:** William Hunter (PI) and Treena Arinzeh (Co-PI)

**Department:** Biomedical Engineering

**Grant/Contract Project Title:** Science and Technology Center for Mechano-Biology

**Funding Agency:** NSF

**Duration:** 03/01/17-02/28/18

**PI:** Angelo Perna (PI)

**Department:** Chemical, Biological and Pharmaceutical Engineering

**Grant/Contract Project Title:** New Jersey Institute of Technology Ronald E. McNair Post-baccalaureate Achievement Program

**Funding Agency:** Department of Education

**Duration:** 10/01/17-09/30/18

**PI:** Dale Gary (PI)

**Department:** Center for Solar Terrestrial Research

**Grant/Contract Project Title:** Type III Radio Bursts from Nanoflares

**Funding Agency:** NASA

**Duration:** 09/07/17-09/06/18

**PI:** Alexander Haimovich (PI)

**Department:** Electrical and Computer Engineering

**Grant/Contract Project Title:** Distributed GMTI Project Part II

**Funding Agency:** Air Force Research Laboratory

**Duration:** 09/05/17-09/04/18

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## **In the News...**

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

**Domestic R&D Performed in US Reached \$356 Billion in 2015:** Businesses spent \$356 billion on research and development (R&D) performed in the United States in 2015, a 4.4 percent increase over the \$341 billion spent in 2014. Of the total R&D expenditures in 2015, companies spent \$22 billion (6 percent) on basic research, \$56 billion (16 percent) on applied research, and \$278 billion (78 percent) on development. The spending shares did not change from 2014. Those data points come from the Business R&D and Innovation Survey (BRDIS), developed and cosponsored by the National Science Foundation's (NSF) National Center for Science and Engineering Statistics and the U.S. Census Bureau. Funding from companies' own sources was \$297 billion in 2015, a 5 percent increase from the \$283 billion spent in 2014. Funding from other sources was \$59 billion in 2015 and \$58 billion in 2014.

In 2015, companies in manufacturing industries performed 66 percent of domestic R&D. Most of the funding (83 percent) was from the companies' own funds. Companies in nonmanufacturing industries performed 34 percent of total domestic R&D, 84 percent of which was paid from the companies' own funds. The U.S. federal government was the chief source of external funding for R&D across all industries, accounting for \$27 billion of the \$59 billion from external sources. Most of this funding came from the Department of Defense (\$18 billion). Next among external funders were foreign companies (\$16 billion). Full report is posted on NSF website <https://www.nsf.gov/statistics/2017/nsf17320/>

**House Passes FY 2018 Omnibus:** The 12-bill, \$1.23 trillion [spending package](#) appropriates \$621.5 billion for defense and \$511 billion for nondefense discretionary spending. Democrats have insisted on an even split between defense and nondefense and have the votes to block the bill in the Senate, according to CQ. The bill violates caps in the 2011 Budget Control Act, and thus would trigger across-the-board spending cuts without a bipartisan budget deal. But if a year-end spending compromise is reached, many provisions in the House omnibus are likely to be included. CQ says 14 Republicans, most of them adamant deficit hawks, joined 184 Democrats in opposition. Details are posted on the website <https://www.congress.gov/bill/115th-congress/house-bill/3354>

**DOE Invests \$50M in High-Tech Resiliency R&D:** The funding includes [\\$33 million for seven projects](#) from the [Grid Modernization Laboratory Consortium](#). The GMLC launched early last year with [\\$220 million in funding for 88 projects](#) around the country. The consortium was created as part of DOE's grid modernization initiative to coordinate the work of its national laboratories with public and private-sector partners. DOE announced more than [\\$20 million in awards](#) to 20 separate research projects aimed specifically at security-critical pieces of energy infrastructure. The projects come with such colorful acronyms as MEEDS (Mitigation of External-exposure of Energy Delivery System Equipment) and SASS-E (Safe & Secure Autonomous Scanning Solution for Energy Delivery Systems), and range from managing the cyberthreats inherent in the utility IT-OT connection, to managing security on a grid rich with DERs. More information is posted on the website <https://energy.gov/under-secretary-science-and-energy/resilient-distribution-systems-lab-call-awards>

**Research in Material Science:** The Subcommittees on Energy and Research and Technology of the House Science, Space, and Technology Committee recently held a joint hearing to review federally funded research in materials science. Researchers in this field analyze existing materials, studying their chemical, physical, atomic, and magnetic make up in order to develop new materials with preferred properties. New materials research has facilitated innovations in areas such as biomedical engineering and at the Department of Defense. Investing in science, technology, engineering, and mathematics (STEM) education and the infrastructure that is needed for this advanced research is imperative. One witness at the hearing, Dr. Fred Higgs, a professor of Mechanical Engineering from Rice University and expert in tribology, expressed three main issues in his testimony. He stated that new materials can improve the safety and environmental impact of energy production technologies and that material advancements can provide the foundation for new technologies in medicine, transportation, manufacturing and computing. Additionally he promoted the merits of science prize competitions, university-federal lab/agency partnerships, and university-company partnerships, in speeding the development of advanced materials. The hearing testimony and archived video is available:

<https://science.house.gov/legislation/hearings/joint-subcommittee-energy-and-subcommittee-research-and-technology-hearing>

**IBM Commits \$240 Million For AI Lab In Partnership With MIT:** MIT and IBM will enter into a decade-long research partnership that will see the creation of an artificial intelligence research lab at MIT where over 100 researchers from both sides of the collaboration will work “to advance four key focus areas within the AI field.” One of those focuses will be “deep-learning algorithms that can help neural networks move from single-use applications to more generalized performance” – serving to make AI more flexible in applications and transparent in processes. The intersection of AI and quantum computing will also be examined and “will aid both fields, with AI helping to identify and characterize quantum devices and with quantum computers helping to optimize machine learning methodologies.” Also to be researched are AI applications in healthcare, cybersecurity, and, according to an IBM press release, the “economic implications of AI and investigate how AI can improve prosperity.” The news release is posted on the website [https://www.engadget.com/2017/09/07/ibm-watson-ai-lab-mit/?sr\\_source=Twitter](https://www.engadget.com/2017/09/07/ibm-watson-ai-lab-mit/?sr_source=Twitter)

**NSF: Important Notice No. 140: Training in Responsible Conduct of Research – A Reminder of the NSF Requirement  
Important Notice to Presidents of Universities and Colleges and Heads of Other National Science Foundation Grantee Organizations**

The National Science Foundation (NSF) requires that each institution submitting a proposal certify that it has a plan to provide appropriate training and oversight in the ethical conduct of research to all undergraduates, graduate students, and postdoctoral researchers who will be supported by NSF to conduct research. The institutions are responsible for verifying that the training has been received. This is in accordance with the 2007 [America COMPETES Act](#).<sup>i</sup> The NSF recognizes the importance of research integrity and the responsible and ethical conduct of research. The scientific research enterprise is critical to our nation, and its progress depends on maintaining integrity in the process of conducting research. A recent report by the National Academies of Sciences, Engineering, and Medicine, called [Fostering Integrity in Research](#), notes that the core values and guiding norms underpinning research integrity are crucial to assure that new generations of researchers are able to meet the challenges of a dynamic research environment.<sup>ii</sup>



NSF's Responsible Conduct of Research (RCR) requirement applies to the breadth of research disciplines the Foundation funds and the different educational levels of the students and post-doctoral researchers the agency supports. The training should be effective and appropriately tailored to the specific needs and circumstances at each university. Accordingly, it is the responsibility of each institution to determine both the focus and the delivery method for appropriate training.

The NSF Office of the Inspector General (OIG) has studied a sample of academic institutions to find out how they have implemented the [RCR requirement](#).<sup>iii</sup> I encourage you to read the OIG report as well as the [Fostering Integrity in Research](#) report cited above. Both of these reports draw attention to the importance of maximizing the effectiveness of RCR education. The OIG report suggests that universities could benefit from best practices. I would like to draw your attention to Chapters 9 and 10 in the [Fostering Integrity in Research](#) report to learn more about some best practices and the many resources available for RCR educational materials and strategies.

I believe we can all do more to achieve and demonstrate the effectiveness of RCR training and improve strategies for fostering research integrity. This will continue to be a topic of discussion at NSF, including the National Science Board, and among the scientific societies, universities, colleges, and other institutions involved in the research enterprise. Thank you for your continued commitment and dedication to this important endeavor.

France A. Córdova, Director; Website: <https://www.nsf.gov/pubs/issuances/in140.jsp?org=NSF>

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## Webinar and Events

**Event: Data Science Undergraduate Education: Incorporating Real-World Applications**

**Sponsor: National Academies**

**When: Webcast on September 19, 2017 from 3:00 PM to 4:00 PM**

**Website:**

[https://nasevents.webex.com/mw3200/mywebex/default.do?nomenu=true&siteurl=nasevents&service=6&rnd=0.6897764795263417&main\\_url=https%3A%2F%2Fnasevents.webex.com%2Fec3200%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26%26%26EMK%3D4832534b0000000487859a6079b2def7fc59eca96f395230e4b9dd58a2267bbb88350b3f70baec95%26siteurl%3Dnasevents%26confViewID%3D71647041377304366%26encryptTicket%3DSDJTSwAAAATPQpflr3AEJSURI5Gaxb0-Y\\_hNV3CKTiwL4CjaMLTykw2%26](https://nasevents.webex.com/mw3200/mywebex/default.do?nomenu=true&siteurl=nasevents&service=6&rnd=0.6897764795263417&main_url=https%3A%2F%2Fnasevents.webex.com%2Fec3200%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26%26%26EMK%3D4832534b0000000487859a6079b2def7fc59eca96f395230e4b9dd58a2267bbb88350b3f70baec95%26siteurl%3Dnasevents%26confViewID%3D71647041377304366%26encryptTicket%3DSDJTSwAAAATPQpflr3AEJSURI5Gaxb0-Y_hNV3CKTiwL4CjaMLTykw2%26)

**Brief Description:** During this webinar, invited speakers will discuss how partnerships between industry and educational programs could be encouraged, whether a focus on real problems could attract a more diverse cadre of data science students, and how to help students gain access to real-world data sets. Each talk will be followed by a Q&A session for webinar participants. This webinar series is part of an input-gathering initiative for a National Academies study on *Envisioning the Data Science Discipline: The Undergraduate Perspective*. Learn more about the study, read the interim report, and share your thoughts with the committee on the study webpage at <http://nas.edu/EnvisioningDS>.

**Register:** Please register at the above URL

**Event: NSF Electronic Research Administration (ERA) Forum**

**When: Webcast on September 19, 2017 from 1:00 PM to 2:30 PM**

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=242973&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=242973&org=NSF)



**About the Webinar:** The National Science Foundation Electronic Administration (ERA) Forum Webinar will be hosted by NSF on September 19, 2017 at 1:00 p.m. ET. To participate in this Forum, please [Register Now](#). The purpose of the 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 topic of this Forum will be **NSF's initiative to streamline and modernize registration functionality**, including new role request features and dashboards for managing accounts, as well as how existing accounts will be migrated to the new system. This Forum will also provide updates on NSF's **Proposal Submission Modernization (PSM) implementation**.

**Register:** To join the webinar, register

at [https://nsf.webex.com/mw3100/mywebex/default.do?nomenu=true&siteurl=nsf&service=6&rnd=0.20863987569181452&main\\_url=https%3A%2F%2Fnsf.webex.com%2Fec3100%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26%26%26EMK%3D4832534b0000004c693c9e5bf95c6378143889c83b449df1afb758d126a18d3a32ada6e408b4661%26siteurl%3Dnsf%26confViewID%3D64661111566288208%26encryptTicket%3DSDJTSwAAAASfqH52FI FG2Rp9KqoZOUiEjKZUZLbVxcAYaGffuCJoxQ2%26](https://nsf.webex.com/mw3100/mywebex/default.do?nomenu=true&siteurl=nsf&service=6&rnd=0.20863987569181452&main_url=https%3A%2F%2Fnsf.webex.com%2Fec3100%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26%26%26EMK%3D4832534b0000004c693c9e5bf95c6378143889c83b449df1afb758d126a18d3a32ada6e408b4661%26siteurl%3Dnsf%26confViewID%3D64661111566288208%26encryptTicket%3DSDJTSwAAAASfqH52FI FG2Rp9KqoZOUiEjKZUZLbVxcAYaGffuCJoxQ2%26)

**Event: Drones on Campus: Policies to Achieve Institutional Compliance and Minimize Risk**

**When: Tuesday, September 26 ; 2.00 PM – 3.30 PM**

**Website:** <https://www.paper-clip.com/Main/product-catalog/3492.aspx>

**About the Webinar:** Since December 2015, over 800,000 drone owners have registered with the Federal Aviation Administration and it expects that number to triple in size to 3.55 million by 2021. Unmanned Aircraft Vehicle (UAV aka Drones) are being used by campuses in innovative ways to enhance research, improve learning, and elevate campus events.

As a result of the expansion of drone usage and rapid advancement of this technology, institutions along with federal and state governments have struggled to keep up and adapt laws and regulations regarding their use.

Join our expert presenter on September 26, 2017, and in just 90 minutes, you and your staff will learn about the **current types of UAV being used on your campus, identify federal, state and privacy laws that impact use of drones on your campus and enhance the educational mission of your institution through the use of this technology**.

**Panelists:** Shawn Troxler currently serves as an Associate General Counsel at North Carolina State University located in Raleigh, NC. ([Click here for full bio](#))

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## **Grant Opportunities**

### **National Science Foundation**

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

**Agency: National Science Foundation NSF 17-597**

**RFP Website:** <https://www.nsf.gov/pubs/2017/nsf17597/nsf17597.htm>

**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 to continue the cadence promised by Moore’s Law.

**Awards:** Six awards; **Anticipated Funding Amount:** \$3,000,000

**Letter of Intent:** Not Required

**Proposal Submission Due Date:** January 12, 2018

**Contacts:** Tao Li, Program Director, CCF, telephone: (703) 292-8238, email: [taoli@nsf.gov](mailto:taoli@nsf.gov)

- Yan Solihin, Program Director, CNS, telephone: (703) 292-7939, email: [ysolihin@nsf.gov](mailto:ysolihin@nsf.gov)
- Matt Haycock, Center Executive Sponsor, Vice President, Intel Labs, telephone: (503) 712-2872, email: [matthew.haycock@intel.com](mailto:matthew.haycock@intel.com)

### **Grant Program: Small Business Innovation Research Program Phase I (SBIR)**

**Agency:** National Science Foundation NSF 17-596

**RFP Website:** <https://www.nsf.gov/pubs/2017/nsf17596/nsf17596.htm>

**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.

The program is governed by Public Law 112-81 (SBIR/STTR Reauthorization Act of 2011) [and reauthorized by Public Law 114-328](#). SBIR/STTR policy is provided by the Small Business Administration (SBA) through the [SBIR Policy Directive](#). A main purpose of the legislation is to stimulate technological innovation and increase private sector commercialization. The NSF SBIR/STTR program is therefore in a unique position to meet both the goals of NSF and the purpose of the SBIR/STTR legislation by transforming scientific discovery and innovation into both social and economic benefit, and by emphasizing private sector commercialization.

Because the program has no topical or procurement focus, the NSF offers very broad solicitation topics that are intended to permit 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:** Fixed award; **Anticipated Funding Amount:** \$33,750,000

**Letter of Intent:** Not Required

**Proposal Submission Due Date:** December 4, 2017

**Contacts:** Henry Ahn, Biomedical (BM) Technologies and Educational Applications (EA), telephone: 703-292-7069, email: [hahn@nsf.gov](mailto:hahn@nsf.gov)

- Peter Atherton, Information Technologies (IT), telephone: (703) 292-8772, email: [patherto@nsf.gov](mailto:patherto@nsf.gov)
  - Anna Brady-Estevez, Chemical and Environmental Technologies, telephone: (703) 292-7077, email: [abrady@nsf.gov](mailto:abrady@nsf.gov)
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**Grant Program: Small Business Technology Transfer Program Phase I (STTR)**

**Agency: National Science Foundation NSF 17-595**

**RFP Website:** <https://www.nsf.gov/pubs/2017/nsf17594/nsf17594.htm>

**Brief Description:** The STTR 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 STTR 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.

The program is governed by Public Law 112-81 (SBIR/STTR Reauthorization Act of 2011) and reauthorized by [Public Law 114-328](#). STTR policy is provided by the Small Business Administration (SBA) through the [STTR Policy Directive](#). A main purpose of the legislation is to stimulate technological innovation and increase private sector commercialization. The NSF SBIR/STTR program is therefore in a unique position to meet both the goals of NSF and the purpose of the SBIR/STTR legislation by transforming scientific discovery and innovation into both social and economic benefit, and by emphasizing private sector commercialization.

Because the program has no topical or procurement focus, the NSF offers very broad solicitation topics that are intended to permit 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:** Fixed awards; **Anticipated Funding Amount:** \$9,000,000

**Letter of Intent:** Not Required

**Proposal Submission Due Date:** December 04, 2017

**Contacts:** Henry Ahn, Biomedical (BM) Technologies and Educational Applications (EA), telephone: (703) 292-7069, email: [hahn@nsf.gov](mailto:hahn@nsf.gov)

- Peter Atherton, Information Technologies (IT), telephone: (703) 292-8772, email: [patherto@nsf.gov](mailto:patherto@nsf.gov)
  - Anna Brady-Estevez, Chemical and Environmental Technologies, telephone: (703) 292-7077, email: [abrady@nsf.gov](mailto:abrady@nsf.gov)
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**Grant Program: Research Coordination Networks (RCN)**

**Agency: National Science Foundation NSF 17-594**

**RFP Website:** <https://www.nsf.gov/pubs/2017/nsf17594/nsf17594.htm>

**Brief Description:** The goal of the RCN program is to advance a field or create new directions in research or education by supporting groups of investigators to communicate and coordinate their research, training and educational activities across disciplinary, organizational, geographic and international boundaries. The RCN program provides opportunities to foster new collaborations, including international partnerships, and address interdisciplinary topics. Innovative ideas for implementing novel networking strategies, collaborative technologies, training, broadening participation, and development of community standards for data and meta-data are especially encouraged. RCN awards are not meant to support existing networks; nor are they meant to support the activities of established collaborations. RCN awards also do not support primary research. Rather, the RCN program supports the means by which investigators can share information and ideas, coordinate ongoing or planned research activities, foster synthesis and new collaborations, develop community standards, and in other ways advance science and education through communication and sharing of ideas. Additional information about the RCN program and its impacts may be found in Porter et al. 2012 Research Coordination Networks: Evidence of the relationship between funded interdisciplinary networking and scholarly impact. *BioScience*, 62: 282-288. Proposed networking activities directed to the RCN program should focus on a theme to give coherence to the collaboration, such as a broad research question or particular technologies or approaches.

Participating programs in the Directorates for Biological Sciences (BIO), Computer and Information Science and Engineering (CISE), Geosciences (GEO), Education and Human Resources (EHR), Engineering (ENG) and Social, Behavioral and Economic Sciences (SBE) will accept RCN proposals. PIs are encouraged (for CISE required) to discuss suitability of an RCN topic with a program officer that manages the appropriate program.

Several other NSF solicitations accept RCN proposals, or support research networking activities if appropriate to the solicitation. Please see section **IX. Other Information** of this solicitation for a listing of these programs. PIs are strongly advised to contact the appropriate Program Director before submitting an RCN proposal.

**Awards:** Standard Grant or Continuing Grant; **Anticipated Funding Amount:** \$12,500,000

**Letter of Intent:** Not Required

**Proposal Submission Due Date:** Submission deadlines vary by program. RCN proposals should be submitted to a particular program according to the program's submission dates; PIs should consult program websites and contact cognizant program officers for guidance.

**Contacts:** Peter H. McCartney, telephone: (703) 292-8470, email: [pmccartn@nsf.gov](mailto:pmccartn@nsf.gov)

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## **Grant Program: Inclusion Across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)**

**Agency:** National Science Foundation NSF 17-591

**RFP Website:** <https://www.nsf.gov/pubs/2017/nsf17591/nsf17591.htm>

**Brief Description:** Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) is a comprehensive national initiative designed to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) discoveries and innovations focused on NSF's commitment to diversity, inclusion, and broadening participation in these fields. The initiative is developing a National Network composed of NSF INCLUDES Design and Development Launch Pilots, NSF INCLUDES Alliances, NSF-funded broadening participation projects, other relevant NSF-funded projects, scholars engaged in broadening participation research, and other organizations that support the development of talent from all sectors of society to build the STEM workforce.

To facilitate the Network's operation, the program is soliciting proposals for a **NSF INCLUDES Coordination Hub** that will drive and support the work of the NSF INCLUDES National Network over the life-cycle of the initiative by: (a) promoting the NSF INCLUDES guiding vision and strategy; (b) developing a collaborative infrastructure to support the activities of the various entities partnering in the NSF INCLUDES National Network; (c) fostering progress among Network partners toward shared models, measurement practices, and evaluation criteria; (d) communicating the discoveries of and generating enthusiasm for the NSF INCLUDES National Network; and (e) advancing the expansion and scale of the NSF INCLUDES National Network by connecting expertise from multiple sectors and other private and public funders.

The three critical functions of the NSF INCLUDES Coordination Hub are summarized below:

1. **Communication and Networking:** From the beginning the NSF INCLUDES Coordination Hub should direct efforts toward building the Network infrastructure by facilitating continuous communication and information updates, designing community activities, and fostering collaboration across all elements of the Network.
2. **Network Assistance and Reinforcement:** As NSF INCLUDES Alliances and other organizations join the NSF INCLUDES National Network, the NSF INCLUDES Coordination Hub should focus attention on assistance and reinforcement activities including technical assistance, conducting research, and facilitating shared measurement and data analysis across the Network.
3. **Visibility and Expansion:** The NSF INCLUDES Coordination Hub should provide resources for efforts to focus on expansion and sustainability within the National Network, increase NSF INCLUDES visibility and communicate impact, while also serving as a repository for funding opportunities, research and knowledge generated by the NSF INCLUDES National Network and stakeholders.

**Awards:** Cooperative Agreement; **Anticipated Funding Amount:** \$10,500,000

**Letter of Intent:** Not Required

**Limit on Number of Proposals per Organization:** An organization may serve as the lead institution on only one NSF INCLUDES Coordination Hub proposal, although it may serve as a collaborating partner on other proposals.

**Internal Pre-Proposal Review and Selection:** Please send an email with a copy of the pre-proposal with project summary, collaborators, intellectual merit and broader impact sections to the Office of Research at [dhawan@njit.edu](mailto:dhawan@njit.edu) by October 1, 2017 for internal review and selection.

**Proposal Submission Due Date:** November 27, 2017

**Contacts:** General inquiries may be addressed to:, telephone: (703) 292-7303, email: [nsfincludes@nsf.gov](mailto:nsfincludes@nsf.gov)

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## **National Institutes of Health**

**Grant Program: NIDDK Partnerships with Professional Societies to Enhance Scientific Workforce Diversity and Promote Scientific Leadership (R25)**

**Agency: National Institutes of Health RFA-DK-17-015**

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-17-015.html>

**Brief Description:** The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers. The over-arching goals of the NIH R25 program are to: (1) complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs; (2) enhance the diversity of the biomedical, behavioral and clinical



research workforce; (3) help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral and clinical sciences; and (4) foster a better understanding of biomedical, behavioral and clinical research and its implications.

The over-arching goal of this NIDDK R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. In particular, this R25 program focuses on the role that professional societies can play in enhancing the research workforce. Ultimately, it is hoped that by fostering the diversity of the overall research workforce, the diversity of professional societies, including at the level of the committee and organizational leadership, will be enhanced as well.

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

- ***Courses for Skills Development:*** For example, leadership courses for early and mid-career diverse faculty. Other courses may also include for example grant writing or lab management which may contribute to career success.
- ***Mentoring Activities:*** For example, dedicated efforts at providing not only technical expertise, but advice, insight, and professional career skills to diverse fellows and postdoctorates and/or early and mid-career faculty. The mentoring activities should be performed on an individual level and may also include network activities. Activities should address mentor, mentee, and mentor-mentee activities and provide leadership training.

**Awards:** Although the size of award may vary with the scope of the research education program application, the total direct costs are limited to \$135,000 annually.

**Letter of Intent:** November 5, 2017

**Deadline:** December 5, 2017), by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date.

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: Understanding and Modifying Temporal Dynamics of Coordinated Neural Activity (R21) and (R01)**

**Agency: National Institutes of Health**

[PAR-17-463](#), [R21 Exploratory/Developmental Grant](#)

[PAR-17-466](#), [R01 Research Project Grant](#)

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PAR-17-463.html>

**Brief Description:** Cognition appears to emerge at the level of populations of neurons, with information represented and organized as action potentials and network events that are temporally coordinated across brain areas. For example, there have been notable advances in our basic understanding of the role of local field potential (LFP) oscillations and large-scale coordination of neural networks in learning and memory. In rodents, particular patterns of temporal dynamics have been shown to proportionally improve or worsen working memory, and particular LFP oscillatory bands predict episodic/relational learning. Theta phase precession is another well-known precise temporal code that might be required for optimal cognition, and the precise reactivation of neural activity during hippocampal sharp wave ripples is also a temporally coordinated representation that might be necessary for memory consolidation or decision making.

From a disease standpoint, electrophysiological aberrations exist in many brain disorders, and recent findings suggest that modulating electrophysiological patterns could potentially have therapeutic benefit. In schizophrenia, findings have suggested that systems-level

electrophysiological endophenotypes are modifiable and that such modifications have the potential to improve cognition. In autism, the modest amounts of electrophysiological data that exist in patients and model organisms suggest that this disorder also has disruptions in temporal coordination of neural signals, and that electrophysiological patterns at the level of neural populations might represent an intermediate, modifiable phenotype. Furthermore, rationally-developed pharmacological interventions are being tested for autism spectrum disorders, whose effect on temporal dynamics of electrophysiological patterns might be instructive to examine, especially if the treatments are directed at the cognitive impairments that lead to significant functional deficits for some patients.

These basic and translational findings should be expanded to better understand the brain algorithms that implement learning, memory consolidation, attention, reasoning, affect regulation, and social interactions. The patterns of neural coordination can also be brought to bear on areas of translation such as pre-clinical target validation studies in animals or, in humans, as treatment effectiveness biomarkers or as stratification variables. Work in non-human primates is also highly encouraged, as it would provide a bridge between rodent and human work with regard to neuroanatomy and cognitive capabilities.

The underlying premise of this funding opportunity is that cognitive, affective, and social dysfunction may result in part from compromised systems-level electrophysiological patterns; that these patterns are necessary for normal brain function; and therefore, treatments whose goal is to improve these domains of function might be more effective if they improve the underlying aberrant electrophysiological patterns.

**Awards:** The combined budget for direct costs for the two year project period may not exceed \$275,000. No more than \$200,000 may be requested in any single year.

**Letter of Intent:** Not Required

**Deadline:** November 8, 2017, [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: Tools to Facilitate High-Throughput Microconnectivity Analysis (R01)**

**Agency: National Institutes of Health RFA-MH-18-505**

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-18-505.html>

**Brief Description:** This funding opportunity announcement (FOA) is designed to support development and validation of novel tools to facilitate the detailed analysis of brain microconnectivity. The primary goal is to provide techniques and resources for understanding and delineating the structure of complex circuits at the level of synaptic connections, alone or in combination with methods for identifying important cellular and circuit features, for example, for classifying or characterizing cellular or synaptic phenotypes. Understanding and delineating complex circuits will provide insight into important cellular interactions that underlie brain function and ultimately complex behaviors. Defining cellular and circuit-level function is dependent on detailed knowledge about the components and structure of the circuit. Such knowledge, in turn, is fundamental to understanding how these features underlie cognition and behavior, which should aid in the development of targeted cell-type and circuit-specific therapeutics to treat brain disorders. This initiative is focused on developing and optimizing tools and resources to characterize the cells and connections within neuronal circuits.



Recent advances in electron microscopy (EM) and alternative techniques for nanoscale imaging have enabled major gains in the rate and quality of morphological and connectivity analysis of neurons and their embedded circuits. Some of these gains have come from ongoing EM efforts outside of NIH, including the HHMI Janelia Farm FlyEM project, the IARPA MICrONS project, and major efforts from the Max Planck Institute in Germany. In addition, newer techniques such as expansion microscopy and array tomography, and emerging methods for barcode-based tagging of synaptic connections, have advanced to the point they may be considered for the purposes of mapping brain connectivity with synapse resolution.

Despite these ongoing projects and the progress they have made, addressing the dramatic scale of mapping circuits at the level of the trillions of synapses in the brain, and the scope of the analytic challenges for interpreting their connectivity, requires concerted technical development towards true high-throughput microconnectomics. The goal of this proposed effort is to produce the necessary tools, including novel or refined techniques and new datasets, to bring microconnectivity analysis into routine use for interrogating healthy and diseased brains, in model organisms and humans. More broadly, the intention is to put within reach the ultimate challenge of understanding the circuit level substrates of brain activity.

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 connective studies. This FOA solicits applications to develop next-generation, innovative technologies for the analysis of the microconnectome. Traditional EM studies have provided our best understanding to date of synaptic connections but breakthroughs in additional imaging modalities hold promise for alternative approaches that can be implemented to deliver high quality connective information at high throughput.

Tools/technologies relevant for this initiative are expected to be transformative, either through the development of novel tools that may be high-risk or through major advances in current approaches that break through technical barriers and will significantly improve current capabilities. While an emphasis of the BRAIN initiative is the development of novel tools to study the brain, here we highlight the need for innovative approaches to bridge experimental scales. Studies that are able to explore molecular and cellular mechanisms of neural activity permitting improved precision and sensitivity in the analysis of micro-and macro-circuits are strongly encouraged. Plans for validating the utility of the tool/technology will be an essential feature of a successful application.

**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:** December 7, 2017 and November 13, 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.

No late applications will be accepted for the Funding Opportunity Announcement.

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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**Department of Defense/US Army/DARPA/ONR**

**Grant Program: DoD Hearing Restoration Research Program Focused Research Award**

## **DoD Hearing Restoration Research Program Translational Research Award**

**Agency: Department of Defense Dept. of the Army -- USAMRAA**

**W81XWH-17-HRRP-FRA; W81XWH-17-HRRP-TRA**

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=297413>

**Brief Description:** The FY17 HRRP FRA is intended to support functional hearing restoration research that develops and validates assessment techniques and treatment methods using patient-centric outcomes to identify potential predictive indicators for successful treatment of individuals living with functional auditory system deficits. The research in this area should result in refined diagnostic tools and improved evaluation of the effectiveness of therapeutic approaches. Applications involving multidisciplinary collaborations among academia, industry, the military Services, the VA, and other Federal Government agencies are highly encouraged. Under this award mechanism, research may support correlative or observational studies that are associated with an ongoing or completed clinical trial.

The FY17 HRRP TRA mechanism is being offered in this first year of the program to support preclinical translational research that will accelerate the movement of promising initiatives relevant to hearing restoration into clinical applications. The ultimate goal of translational research is to move an observation forward into clinical application and accelerate the clinical introduction of healthcare products, technologies, or practice guidelines. Observations that drive a research idea may be derived from a laboratory discovery, population-based studies, or a clinician's first-hand knowledge of patients and anecdotal data. However, Principal Investigators (PIs) should not view translational research as a one-way continuum from bench to bedside. The research plan should involve a reciprocal flow of ideas and information between basic and clinical science.

**Awards:** Funding available: \$6,400,000

**Proposal Deadline:** November 15, 2017

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

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## **Grant Program: DoD Psychological Health/ Traumatic Brain Injury Research Program, Complex Traumatic Brain Injury Rehabilitation Research Clinical Research Award**

**Agency: Department of Defense Dept. of the Army -- USAMRAA**

**W81XWH-17-CTRR-CRA**

**Website:** <http://cdmrp.army.mil/funding/pa/FY17-PHTBI-CTRR-CTA.pdf>

**Brief Description:** The PH/TBIRP and JPC-8/CRM RP seek innovative rehabilitation research that has the potential to make a significant impact on improving the health and well-being of military Service members, Veterans, and other individuals with TBI. The programs challenge the clinical and scientific communities to design innovative research that will foster new directions for, and address neglected issues in, the field of TBI rehabilitation research. Applications from investigators within the military Services, and applications involving multidisciplinary collaborations among academia, industry, the military Services, the U.S. Department of Veterans Affairs (VA), and other Federal Government agencies are highly encouraged.

The FY17/18 PH/TBIRP CTRR-CTA seeks research focused on potential interventions relevant to the mission of the JPC-8/CRM RP. To meet the intent of the award mechanism, applications must be responsive to one or both of the following two FY17/18 PH/TBIRP CTRR-CTA Focus Areas:

1. Cognitive Rehabilitation: Cognitive rehabilitation-focused clinical trials should generate new knowledge to confirm whether novel or standard-of-care rehabilitation interventions are effective in remediating cognitive impairments (e.g., memory, processing speed, executive functioning) and

functional limitations after TBI. Applications specifically addressing barriers to participation in Service members with TBI are strongly encouraged.

2. Vestibular Rehabilitation and Mechanisms of Recovery: Vestibular rehabilitation focused clinical trials should generate new knowledge to remediate symptoms (e.g., dizziness, vertigo, motion intolerance), impairments (e.g., gaze, postural and dynamic instability), functional limitations, and barriers to participation (e.g., readiness to return to duty) associated with post-traumatic dizziness and/or vestibular pathology in patients with TBI. Applications should include a plan to collect data across a broad range of functional outcomes including standard-of-care DoD outcome measures. Applications are encouraged to include one or more aims that objectively characterize neurologic mechanisms of recovery associated with novel and/or standard-of-care vestibular rehabilitation interventions; include data obtained in a sample of active duty military personnel, and advance understanding of rehabilitation prescription (to include frequency, intensity, time, and type of therapeutic exercise).

**Awards:** The anticipated total costs budgeted for the entire period of performance for an FY17/18 PH/TBIRP CTRR-CTA will not exceed \$2.5 Million (M) for awards responding to the Vestibular Rehabilitation and Mechanisms of Recovery Focus Area or \$4.0M for awards responding to the Cognitive Rehabilitation Focus Area.

**Proposal Deadline:**

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), October 11, 2017

- Invitation to Submit an Application: November 10, 2017
- Application Submission Deadline: 11:59 p.m. ET, December 27, 2017

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

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**Grant Program: Young Faculty Award (YFA)**

**Agency:** Department of Defense DARPA DARPA-RA-17-01

**Website:** <https://www.darpa.mil/news-events/2017-09-07>

**Brief Description:** The YFA program aims to identify and engage rising stars in junior faculty positions in academia as well as equivalent positions at non-profit research institutions and expose them to national security challenges and needs. The 2018 solicitation will provide high-impact funding to elite researchers early in their careers to develop innovative research directions that enable transformative Department of Defense (DoD) capabilities. The long-term goal of YFA is to develop the next generation of scientists and engineers who will focus a significant portion of their future careers on DoD and national security issues.

**Eligibility:** 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. Previous YFA recipients are not eligible to apply to this or any future YFA program.

**Focus Areas:** The 26 YFA topic areas for 2018 are listed below. For detailed descriptions of each topic see Para. I. E., "Topic Areas (TAs)" on P. 6 of the YFA Research Announcement (DARPA-RA-17-01) available here: <https://go.usa.gov/xRFCZ>

1. Designing Ungameably Complex Games
2. Topological Photonics
3. Artificial Intelligence for Materials Discovery
4. Transformative Radiation Sensing
5. Engineered Interactions with the Energy of the Vacuum

6. Novel Methods for Nonsurgical Brain Interfaces
7. Self-forming Chronic Central Nervous System (CNS) Neural Interfaces
8. The Minimal Plant: Engineering Plants for Easy Biosynthetic Pathway Design with High Modularity
9. Antifouling Solutions for Large, Nonplanar Optical Surfaces
10. Replicating Cell-Cell Information Transfer
11. Programmable DNA Repair for Improved Genome Editing Outcomes
12. Efficient Integrated Nanophotonics
13. Adversarial Artificial Intelligence (AI)
14. Developing Intelligent Sensors for Fentanyl and Related Toxins
15. High Quality Atomic Traps and Waveguides
16. Wideband Efficiency in Millimeter Wave Power Amplifiers
17. Materials and Actuator Innovation for Small Scale Mobility and Manipulation
18. Reducing Software Attack Surface through Compiler-Rewriter Cooperation
19. Computational Models of the Spread of False or Misleading Information
20. Big Data Summarization
21. Decentralized Control of Networked Unmanned Autonomous Systems
22. REsilience through COmposable Logistics (RECOiL)
23. Wide Area Sensing Using the Internet of Things
24. Tactical Terrain Analysis
25. Thermostructural Sensitivity to Uncertainties
26. Swarm Intent Understanding

**Awards:** The Research Announcement (RA) solicitation seeks grant proposals for research activity consisting of a 24-month base period. Each 12-month interval of the base period should not exceed \$250,000. Proposals should also include a 12-month option period with a maximum funding level of \$500,000. The 12-month option period, referred to as the “Director’s Fellowship,” will be reserved for a limited number of awardees who demonstrate exceptional YFA project performance over the 24-month base period. A target start date of July 2018 may be assumed for planning purposes.

**Proposal Deadline:** Executive summaries are due Oct. 2, 2017, at 4 p.m. Eastern Time, and full proposals are due Dec. 4, 2017, at 4 p.m. Eastern Time..

**Contact Information:** For all submission details, including eligibility, please refer to the RA here: <https://go.usa.gov/xRFCZ>

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### **Grant Program: DoD Orthotics and Prosthetics Outcomes Research Award**

**Agency: Department of Defense Dept. of the Army -- USAMRAA**

**W81XWH-17-OPORP-OPORA**

**Website:** <https://www.scholarshipandgrants.com/business-grants/dod-orthotics-and-prosthetics-outcomes-research-award/>

**Brief Description:** The FY17 OPORP Orthotics and Prosthetics Outcomes Research Award (OPORA) challenges the scientific community to address which orthotic and prosthetic devices generate the best patient outcomes. Outcomes focused research is used to support evidence-based practice which guides providers in the optimization of care to Service members and Veterans with limb loss and/or limb impairment. It is expected that any research findings will also provide benefit to the general population. Applications involving multidisciplinary collaborations among academia, industry, the military Services, the Department of Veterans Affairs (VA), and other Federal Government agencies are highly encouraged. The FY17 OPORP OPORA is intended

to support research that evaluates the comparative effectiveness of orthotic and prosthetic devices using patient-centric outcomes for Service members and Veterans who have undergone limb amputation. The FY17 OPORP OPORA is focused on outcomes-based best practices through analysis of the merits of prosthetic and orthotic device options currently available, not on the development of new, or the improvement of existing, technology. The intent of the award is to generate clinically useful evidence that will enhance and optimize patient outcomes. The FY17 OPORP OPORA offers funding for two Funding Levels. The following are generalized descriptions of the scope of research appropriate for each Funding Level: Funding Level 1/New Investigator: This level is for new investigators only, and may support pilot research without preliminary data or research that is already supported by preliminary data and has the potential to make significant advancements toward clinical translation. Specific eligibility details are provided in Section II.C, Eligibility Information. Funding Level 2: Research that is supported by preliminary data and has the potential to make significant advancements toward clinical translation.

**Awards:** Standard Grants; Available Funding: \$10,000,000

**Proposal Deadline:** January 18, 2018

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

## **Department of Energy**

### **Grant Program: Generation 3 Concentrating Solar Power Systems**

**Agency:** Department of Energy DE-FOA-0001697

**Website:** <https://www.energy.gov/eere/sunshot/funding-opportunity-announcement-generation-3-concentrating-solar-power-systems-gen3csp>

**Brief Description:** The U.S. Department of Energy’s (DOE) Energy Efficiency and Renewable Energy (EERE) Solar Energy Technology Office (SETO) is seeking applications under this Funding Opportunity Announcement (FOA) to fund applied research and development to enable the reduction of the levelized cost of electricity (LCOE) generated by concentrating solar power (CSP) to 6 ¢/kWh-electric or less, without subsidies. This FOA intends to develop integrated thermal system solutions to overcome the temperature limitations of current CSP systems, while lowering capital costs by enabling the use of advanced turbines and achieving a higher overall system efficiency in converting solar thermal energy into electricity. Applications to this FOA are expected to advance individual high temperature components which have been developed at lab scale, and test them as an integrated system at a multi-MW thermal scale that can accept solar thermal energy, store it, and efficiently deliver it to a working fluid at high temperature, representative of a high efficiency power cycle.

**Submission Deadline:**

<b><u>Informational Webinar:</u></b>	September 19, 2017, <a href="#">1:00-2:00 p.m. ET</a>
<b>Submission Deadline for Mandatory Concept Papers:</b>	October 27, 2017 5:00pm ET
<b>Submission Deadline for Full Applications:</b>	January 19, 2018 5:00pm ET

**Contact Information:** [EERE-ExchangeSupport@Hq.Doe.Gov](mailto:EERE-ExchangeSupport@Hq.Doe.Gov)



**Grant Program: RFI: Solar Energy Technology Analysis & Data Needs**

**Agency: Department of Energy DE-FOA-0001818**

**Website:** <https://eere-exchange.energy.gov/#FoalId2f31dbc5-6e1c-469a-a85b-dd174b90e0c2>

**Brief Description:** The Solar Energy Technologies Office (SETO), in the Office of Energy Efficiency and Renewable Energy (EERE) of the U.S. Department of Energy (DOE), is requesting input on integrated data and analysis needs across the solar value chain to inform near to mid-term plans for the development of information based network planning, real time optimization, and bankability tools in the context of the SunShot 2030 goals. SETO aims to better understand the information-related problems and questions that exist for key stakeholders, including manufacturers, project developers, financiers, engineering procurement and construction businesses, state and local jurisdictions, researchers, analysts, and others supporting the technological advancement and wide scale adoption of solar technology.

**RFI:** Responses to this RFI must be submitted electronically to [solaranalysis@ee.doe.gov](mailto:solaranalysis@ee.doe.gov) no later than 5:00pm (ET) on October 6, 2017. Responses must be provided as attachments to an email. It is recommended that attachments with file sizes exceeding 25MB be compressed (i.e., zipped) to ensure message delivery. Messages that are over 25MB, even after compression, will not be delivered. Responses must be provided as a Microsoft Word (.docx) attachment to the email, and no more than 10 pages in length, 12 point font, 1 inch margins. Only electronic responses will be accepted.

**Deadline:** October 06, 2017

**Contact Information:** [EERE-ExchangeSupport@Hq.Doe.Gov](mailto:EERE-ExchangeSupport@Hq.Doe.Gov)

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**Grant Program: Advanced Power Electronics Design for Solar Applications**

**Agency: Department of Energy DE-FOA-0001740**

**Website:** <https://eere-exchange.energy.gov/Default.aspx#FoalId53bdf98a-0c8e-4bc1-9a5c-81810df79f69>

**Brief Description:** This Funding Opportunity Announcement (FOA) will fund research that can enable significant reductions in the lifetime costs of power electronics (PE) for solar photovoltaic (PV) energy that align with meeting the SunShot 2030 goals, and likewise enable versatile control functionalities to support grid integration of solar PV for enhanced grid services. Power electronics technology is fundamental for renewable energy systems, and especially for solar PV as the critical link between solar PV arrays and the electric grid.

In comparison to the state of the art, the SunShot Initiative seeks to fund early-stage solar PE research projects to enable the following objectives:

- 1) Lower the lifetime cost of residential, commercial, and utility-scale solar PV inverter/converter solutions;
- 2) Develop innovative modular, multi-purpose solar PV power electronics designs that offer enhanced services for improved lifetime value and lower grid integration costs.

The eXCHANGE system is currently designed to enforce hard deadlines for Concept Paper and Full Application submissions. The APPLY and SUBMIT buttons automatically disable at the defined submission deadlines. The intention of this design is to consistently enforce a standard deadline for all applicants.

Applicants that experience issues with submissions PRIOR to the FOA Deadline: In the event that an Applicant experiences technical difficulties with a submission, the Applicant should contact the eXCHANGE helpdesk for assistance ([exchangehelp@hq.doe.gov](mailto:exchangehelp@hq.doe.gov)). The eXCHANGE helpdesk and/or the EERE eXCHANGE System Administrators will assist the Applicant in resolving all issues. Applicants that experience issues with submissions that result in a late

submission: In the event that an Applicant experiences technical difficulties with a submission that results in a late submission, the Applicant should contact the eXCHANGE helpdesk for assistance (exchangehelp@hq.doe.gov). The eXCHANGE helpdesk and/or EERE eXCHANGE System Administrators will assist the Applicant in resolving all issues (including finalizing the submission on behalf of and with the Applicant's concurrence). DOE will only accept late applications when the Applicant has a) encountered technical difficulties beyond their control; b) has contacted the helpdesk for assistance; and c) has submitted the application through eXCHANGE within 24 hours of the FOA's posted deadline.

An Informational Webinar will be held on Thursday, September 21st. To register for the webinar, please follow this link:

<https://doe.webex.com/doe/j.php?MTID=mee0e52f24b9aca5193609c1f50b05714>

**Award:** Up to \$500,000; Available Funding: \$24,000,000.

**Letter of Intent:** Concept Paper Submission Deadline: 10/12/2017 5:00 PM ET

**Proposal Deadline:** Full Application Submission Deadline: 12/15/2017 5:00 PM ET

**Contact Information:** [EERE-ExchangeSupport@Hq.Doe.Gov](mailto:EERE-ExchangeSupport@Hq.Doe.Gov)

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### **Grant Program: High-Energy-Density Laboratory Plasma Science**

**Agency:** Department of Energy DE-FOA-0001801

**Website:** [https://science.energy.gov/~media/grants/pdf/foas/2017/SC\\_FOA\\_0001801.pdf](https://science.energy.gov/~media/grants/pdf/foas/2017/SC_FOA_0001801.pdf)

**Brief Description:** The Fusion Energy Sciences (FES) program of the Office of Science (SC) and the Defense

Program (DP) of the National Nuclear Security Administration (NNSA), both of the U.S. Department of Energy (DOE), jointly announce their interests in receiving grant applications for new awards and grant renewals for research in the SC-NNSA Joint Program in High-Energy Density (HED) laboratory plasmas. All individuals or groups planning to submit applications for new or renewal funding in Fiscal Year 2018 should submit in response to this Funding Opportunity Announcement (FOA). The specific areas of interest are:

1. HED Hydrodynamics
2. Radiation-Dominated Dynamics and Material Properties
3. Magnetized HED Plasma Physics
4. Nonlinear Optics of Plasmas and Laser-Plasma Interactions
5. Relativistic HED Plasmas and Intense Beam Physics
6. Warm Dense Matter
7. High-Z, Multiply Ionized HED Atomic Physics
8. Diagnostics for HED Laboratory Plasmas.

**Award:** Up to \$500,000; Available Funding: \$24,000,000.

**Letter of Intent:** Required; Deadline: October 1, 2017

**Proposal Deadline:** November 15, 2017

**Contact Information:** Dr. Kramer U. Akli, Office of Science 301-903-2943;

[Kramer.Akli@science.doe.gov](mailto:Kramer.Akli@science.doe.gov)

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### **Grant Program: Fossil Fuel Large-Scale Pilots**

**Agency:** Department of Energy DE-FOA-0001788

**Website:**

[https://www.fedconnect.net/FedConnect/PublicPages/PublicSearch/Public\\_Opportunities.aspx](https://www.fedconnect.net/FedConnect/PublicPages/PublicSearch/Public_Opportunities.aspx)



**Brief Description:** This FOA seeks applications for projects to design, construct, and operate large-scale pilots of transformational coal technologies aimed at enabling step change improvements in coal powered system performance, efficiency, and cost of electricity. The FOA will be carried out in three phases, with a down-select between phases. Phase I, Feasibility, will be aimed at supporting recipients' efforts to secure team commitments, including host sites and recipient cost share for Phase II, update the preliminary cost estimate and schedule for design, construction, and operation, and complete an environmental information volume. Projects selected for Phase II, Design, will complete a Front End Engineering Design study, secure construction-operation cost share funding, and complete the National Environmental Policy Act process. Finally, at least two projects will be selected for Phase III, Construction-Operation, which will support construction and operation of the large-scale pilot facilities. Any recipients proceeding to Phase III will be required to utilize domestic coal and/or domestic coal-derived fuels in the operation period. Applicants to Phase I who plan to primarily use other fuel sources during operations will be judged non-responsive. While only detailed Phase I applications are being solicited at this time, information relating to preliminary plans to carry out Phases II and III will be required to assess the potential viability of the overall project.

**Award:** EERE expects to make approximately \$2,500,000 of Federal funding available for new awards under this FOA, subject to the availability of appropriated funds. EERE anticipates making approximately 1-2 awards under this FOA. EERE may issue one, multiple, or no awards. Individual awards may vary between \$1,250,000 and \$2,500,000.

**Proposal Deadline:** October 19, 2017

**Contact Information:** Raelynn Honkus [Raelynn.Honkus@netl.doe.gov](mailto:Raelynn.Honkus@netl.doe.gov)

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## NASA

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

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

**Website:**

<https://www.fbo.gov/index?s=opportunity&mode=form&tab=core&id=a3086df0e6b38ec720476107b522fd90>

**Brief Description:** This National Aeronautics and Space Administration (NASA) Research Announcement (NRA) solicits ground-based research proposals from established researchers and graduate students to generate new scientific insights by utilizing experimental data residing in NASA's Physical Sciences Informatics (PSI) system (<http://psi.nasa.gov>), an online database of completed physical science reduced-gravity flight experiments conducted on the International Space Station (ISS), Space Shuttle flights, and Free-flyers, or from related ground-based studies. The solicitation (NNH17ZTT001N-17PSI-D), entitled "Use of the NASA Physical Sciences Informatics System - Appendix D," will be available on or about September 15, 2017. Upon release, the solicitation will be found via the following steps: 1. Open the NSPIRES homepage at <http://nspires.nasaprs.com/> 2. Select "Solicitations" 3. Select "Open Solicitations" 4. Select "Use of the NASA Physical Sciences Informatics System NNH17ZTT001N" 5. Select List of Open Program Elements 6. Select "Use of the NASA Physical Sciences Informatics System - Appendix D" 7. Select "Appendix D NNH17ZTT001N-17PSI-D" under Announcement Documents. NASA plans to host a proposers' conference via WebEx shortly after the release of the Appendix to provide more information and to answer questions about the NRA and the PSI system. NASA's Physical Sciences Research Program conducts fundamental and applied physical sciences research, with the

objective of enabling exploration and pioneering scientific discovery. NASA's experiments in the various disciplines of physical science reveal how physical systems respond to the near absence of gravity. They also reveal how other phenomena which have a small influence on physical systems in earth's gravity, can dominate system behavior in space. The PSI system (<http://psi.nasa.gov>) is an online, publicly accessible database of completed physical science reduced-gravity flight experiments conducted on the ISS, Space Shuttle flights, or Free Flyers and related ground-based studies. It is a tool designed for researchers to data mine information from reduced-gravity physical sciences experiments and use it to further science in accordance with the open science approach, while also meeting the requirements of the nation's Open Data Policy. This NRA solicits ground-based research proposals that present a compelling case on how the experimental data from the PSI system will be used to promote the advancement of further research. Proposers must show a clear path from the scientific data obtained from the PSI system to the proposed investigation. In addition, the project must address an important problem in the proposed area of research and advance scientific knowledge or technology. This NRA will remain open for five years. There will be annual call for proposals through a series of appendices which are planned to be released yearly. In general, the NRA solicits research in the following six research areas: 1) Biophysics, 2) Combustion Science, 3) Complex Fluids, 4) Fluid Physics, 5) Fundamental Physics, and 6) Materials Science. This announcement includes Appendix D, which will solicit proposals in several research areas identified above. See the full Appendix D for the list of the research areas solicited and eligible PSI investigations. Proposals for Appendix D are due on or about December 15, 2017. This solicitation is applicable to researchers in 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, including postdoctoral scholars; 2) graduate students (with academic advisors) from accredited U.S. postsecondary institutions and programs. Proposals from graduate students must be submitted by their advisor. Principal Investigators (PIs) may collaborate with investigators from universities, Federal Government laboratories, the private sector, state and local government laboratories, and other countries. Proposals including international participation are eligible, provided NASA policies regarding the conduct of research with non-U.S. organizations are met. Proposals must be submitted by an authorized official of the proposing organization. Proposals must be submitted electronically. Proposers may use either NSPIRES (<http://nspires.nasaprs.com/>) or Grants.gov (<http://www.grants.gov>) for proposal submission. Every organization that intends to submit a proposal in response to this NRA must be registered with NSPIRES, and such registration must identify the authorized organization representative(s) who will submit the electronic proposal. Instructions on how to register in NSPIRES are provided in the NRA. Each electronic proposal system places requirements on the registration of principal investigators and other participants (e.g., co-investigators). Potential proposers and proposing organizations are urged to access the system(s) well in advance of the proposal due date(s) to familiarize themselves with its structure and enter the requested information. Questions with regard to responding to this NRA may be addressed to the contacts referenced in the full solicitation document. This is a broad agency announcement as specified in FAR 6.102 (d)(2).

**Awards:** TBA

**Response Deadline:** December 15, 2017

**Contact:** Dr. Francis Chiamonte, Program Scientist for Physical Sciences  
[francis.p.chiamonte@nasa.gov](mailto:francis.p.chiamonte@nasa.gov) Phone: 202-358-0693

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## **National Endowment of Humanities**

### **Grant Program: Next Generation Humanities PhD Planning Grants**

**Agency: National Endowment of Humanities**

**Website:** <https://www.neh.gov/grants/education/next-generation-humanities-phd-planning-grants>

**Brief Description:** Next Generation Humanities PhD Planning Grants support universities in preparing to institute wide-ranging changes in humanities doctoral programs. Humanities knowledge and methods can make an even more substantial impact on society if students are able to translate what they learn in doctoral programs into a multitude of careers. Next Generation PhD Planning Grants are designed to bring together various important constituencies to discuss and strategize, and then to produce plans that will transform scholarly preparation in the humanities at the doctoral level. Students will be prepared to undertake various kinds of careers, and humanities PhD programs will increase their relevance for the twenty-first century.

**Grantee institutions must provide funds raised from nonfederal third parties equal to the grant funds released by NEH.**

**Awards:** NEH will offer successful applicants a 1:1 matching grant of up to \$25,000 for as long as twelve months. Thus the total grant will come to a maximum of \$50,000: up to \$25,000 raised by the grantee institution from nonfederal third parties, and up to \$25,000 provided by NEH..

#### **Proposal Deadline:**

November 1, 2017: Create or verify your institution's Entity record at the System for Award Management by this date

November 15, 2017: Register your institution (or verify its registration) with Grants.gov by this date

November 29, 2017: Submit application through Grants.gov by this date

**Contact:** Contact the staff of NEH's Division of Education Programs at 202-606-8500 or [nextgen@neh.gov](mailto:nextgen@neh.gov). Applicants who are deaf or hard of hearing can contact NEH via Federal Relay (TTY users) at 800-877-8399.

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### **Grant Program: Summer Awards**

**Agency: National Endowment of Humanities**

**Website:** <https://www.neh.gov/grants/research/summer-stipends>

**Brief Description:** Summer Stipends support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Eligible projects usually result in articles, monographs, books, digital materials and publications, archaeological site reports, translations, or editions. Projects must not result solely in the collection of data; instead they must also incorporate analysis and interpretation.

Summer Stipends support continuous full-time work on a humanities project for a period of two consecutive months. Summer Stipends support projects at any stage of development.

**Awards:** \$6,000 stipend.

**Proposal Deadline: September 27, 2017 for Projects Beginning May 2018**

**Contact:** Contact NEH's Division of Research Programs at 202-606-8200 or [stipends@neh.gov](mailto:stipends@neh.gov)

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## **Bill and Melinda Gates Foundation**

### **Grant Program: Grand Challenge Program**

**Agency:** Bill & Melinda Gates Foundation

**Website:** <https://gcgh.grandchallenges.org/>

**Brief Description:** The Bill & Melinda Gates Foundation is inviting proposals for the latest round of Grand Challenges Explorations. [Grand Challenges Explorations](#) fosters early-stage discovery research to expand the pipeline of ideas for solving our greatest global health and development challenges. Launched in 2008 with an initial \$100 million commitment from the foundation, Grand Challenges Explorations grants have already been awarded to more than 1300 researchers in more than 65 countries.

- [Novel Approaches for Improving Timeliness of Routine Immunization Birthdose and Healthcare Worker Skill in Low-Resource Settings](#);
- [Healthy Minds for Adolescent Mothers: Achieving Healthy Outcomes for the Family](#);
- [Innovations for Integrated Diagnostics Systems](#)

**Awards:** [Grand Challenges Explorations](#) is an initiative where initial grants are for USD \$100,000 and successful projects are eligible to receive follow-on funding of up to USD \$1 million. Proposals are solicited twice a year for an expanding set of global health and development topics. Applications are only two pages, and no preliminary data is required. Applicants can be at any experience level; in any discipline; and from any organization, including colleges and universities, government laboratories, research institutions, non-profit organizations and for-profit companies.

**Proposal Deadline: Wednesday, November 8, 11:30 am Pacific Time**

**Contact:** For more information, please also contact Eric Blitz, Associate Director for Development Corporate and Foundation Relations, [eric.blitz@njit.edu](mailto:eric.blitz@njit.edu)

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## **Bright Focus Foundation**

### **Grant Program: Research Grants and Fellowships**

**Agency:** Bright Focus Foundation

**Website:** <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: \$150,000
- 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: \$160,000
- 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: \$150,000
- Maximum Duration: 2 years

### **Proposal Deadline:**

Application deadlines for BrightFocus research grants vary by program. You can [sign up to receive notifications](#) of new request for proposal (RFP) announcements and application deadlines.

Deadline: Alzheimer's Disease Research Grants

Due date: October 18, 2017

Due to the large volume of proposals received, we no longer accept proposals that are mailed or emailed to the foundation. You must [apply online](#).

Deadline: Macular Degeneration Research Grants

- Letter of Intent FY18: Due July 11, 2017
- Full applications FY18 (by invitation only): Due November 1, 2017

Note: All deadlines are 11:59 p.m. EST (Washington, D.C.) on the day of the deadline.

**Contact:** For more information, please also contact Eric Blitz, Associate Director for Development Corporate and Foundation Relations, [eric.blitz@njit.edu](mailto:eric.blitz@njit.edu)

If you are considering a research opportunity that falls outside of the mechanisms listed below, BrightFocus invites you to schedule a time to discuss your ideas with the [Scientific Affairs staff](#)

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## **Streamlyne Update**

It has been very exciting to introduce Streamlyne as the new tool for Grant Management. Streamlyne is simplifying the pre-award proposal submission processes promoting shared information technology (IT), and improving the timeliness of grant close out.

FY 17 was a clear testimony of what the NJIT community can achieve working as a team. In FY17, 515 proposals were submitted to external funding agencies. Since the pilot phase rolled out in October 2017, 315 proposals were submitted through Streamlyne. Although there were some issues at the beginning with the System to System (S2S) submissions, today we are able to submit 99% S2S with no errors due to system. Currently we have customized the system in the following areas:

- Able to download the package with all forms – there are still some exceptions to this as the federal government continues to change some of the standard forms.
- Validation error prior to submission – this allows to review the package for errors

- Work Flow approval transparent to all users
- Budget forms customized to NSF and/or S2S
- Sub-award budgets easily download – this will allow better management of the award

New “How to Do” videos have been posted on the research website <http://www5.njit.edu/research/streamlyne/>. These 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](#)
- ◆ [Participant Support Categories](#)
- ◆ [Supplies Specific Category Materials](#)
- ◆ [How to Create a Modular Budget](#)

Also, the following links may be helpful:

- ◆ [Streamlyne Benefits for Proposal Submission and Grant Management](#)
- ◆ [Grants.gov Presentation on Online Proposal Submission Systems](#)
- ◆ [Streamlyne Newsletter V2017.1](#)
- ◆ [Streamlyne FAQs](#)

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](mailto:justin.m.samolewicz@njit.edu); and **Eric Hetherington, Director, Sponsored Research Programs Administration** 973-596-3631; [eric.d.hetherington@njit.edu](mailto: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](mailto:john.p.mccarthy@njit.edu)

**Cristo Leon**, CSLA Director of Research  
(973) 596-6426; [cristo.e.yanezleon@njit.edu](mailto:cristo.e.yanezleon@njit.edu)

**Nancy Henderson**, CCS Project Manager  
973-596-5687; [nancy.henderson@njit.edu](mailto:nancy.henderson@njit.edu)

**Iris Pantoja**, CoAD and SOM Project Manager  
973-596-4483; [irp3@njit.edu](mailto:irp3@njit.edu)

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