

NJIT Research Newsletter

Issue: ORN-2017-30

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

Save the Date and Join Us!

Event: Intellectual Property Open House

When: September 18, 2017; 12.00 PM – 2.00 PM

Where: Ballroom B, Campus Center

Brief Description: 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. Light lunch will be available at 12.00 PM.

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.

Other Major Events hosted by the Office of Research:

Event: Panel Discussion: NSF CAREER Award

Date: October 16, 2017

Time: 2.00 PM – 3.00 PM

Place: 398 Fenster Hall

Event: URI Workshop

Date: October 17, 2017

Time: 2.00 PM – 5.30 PM

Place: Ballroom A/B

Event: Faculty Research Advisory Board Meeting

Date: November 13, 2017

Time: 11.30 AM – 1.30 PM

Place: 398 Fenster Hall

Event: President's Forum and Research Centers and Labs Showcase

Date: November 16, 2017

Time: 10.00 AM – 2.30 PM

Place: Ballroom A/B/G

Event: URI Workshop
Date: December 6, 2017
Time: 2.00 PM – 5.30 PM
Place: Ballroom A/B

Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Research Coordination Networks (RCN); Inclusion Across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES); Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR); Division of Molecular and Cellular Biosciences: Investigator-Initiated Research Projects (MCB); Social, Behavioral & Economic Sciences Postdoctoral Research Fellowships (SPRF)

NIH: Grant Program: Understanding and Modifying Temporal Dynamics of Coordinated Neural Activity (R21) and (R01); BRAIN Initiative: Tools to Facilitate High-Throughput Microconnectivity Analysis (R01); BRAIN Initiative: Research on the Ethical Implications of Advancements in Neurotechnology and Brain Science (R01); CREATE Bio Optimization Track for Biologics (U01) (SBIR-U44); Point-of-Care Technologies Research Network Centers (U54)

Department of Defense/US Army/DARPA/ONR: DoD Orthotics and Prosthetics Outcomes Research Award; Breast Cancer Research Program Innovator Award; DoD, Peer Reviewed Alzheimer's Research

Department of Energy: High-Energy-Density Laboratory Plasma Science; Advanced Manufacturing Graduate-Level Traineeships; Photovoltaics (PV) Innovation Roadmap

NASA: Use of the NASA Physical Sciences Informatics System; ROSES 2017: Discovery Data Analysis; ROSES 2017: Rosetta Data Analysis

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

Whitehall Foundation: Whitehall Foundation Grants

American Association for Cancer Research: AACR NextGen Grants for Transformative Cancer Research

Recent Research Grant and Contract Awards

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

PI: Boris Khusid (PI)

Department: Chemical, Biological and Pharmaceutical Engineering

Grant/Contract Project Title: Kinetics of Electric Field-Driven Phase Transitions in Polarized Colloids

Funding Agency: NASA

Duration: 08/23/13-08/28/18

PI: Veronica Guzman (PI)

Department: CPCP (Center for Pre-College Programs)

Grant/Contract Project Title: Upward Bound for English Language Learners (ELLs)

Funding Agency: US Department of Education

Duration: 09/01/17-08/31/22

PI: Monique Paden-Hutchinson (PI)
Department: CPCP (Center for Pre-College Programs)
Grant/Contract Project Title: Educational Talent Search Program
Funding Agency: US Department of Education
Duration: 09/01/16-08/31/21

PI: Judith Sheft (PI)
Department: NJII, NJIT
Grant/Contract Project Title: Health IT Cluster Connections MOD#3
Funding Agency: JP Morgan Chase
Duration: 05/01/16-12/31/17

PI: Andrew Gerrard(PI)
Department: Center for Solar Terrestrial Research
Grant/Contract Project Title: At the Cusp of the 21st Century: The Next Generation of Geospace Research Facilities at South Pole and McMurdo Stations
Funding Agency: NSF
Duration: 09/01/17-08/31/22

PI: Phil Goode (PI), Vasyi Yurchyshyn (Co-PI) and Wenda Cao (Co-PI)
Department: Center for Solar Terrestrial Research
Grant/Contract Project Title: Observations with the 1.6 Meter New Telescope in Big Bear: Origins of Space Weather
Funding Agency: AFOSR
Duration: 09/15/15-09/14/18

PI: Tomas Gregorio (PI)
Department: NJII, NJIT
Grant/Contract Project Title: Department of Health and Human Services for Medicare and Medicaid MOD#1
Funding Agency: Department of Health and Human Services, Centers for Medicare & Medicaid Services
Duration: 08/28/16-09/21/17

PI: Sergei Adamovich (PI)
Department: Biomedical Engineering
Grant/Contract Project Title: Optimizing Hand Rehabilitation Post-Stroke Using Interactive Virtual Environments
Funding Agency: NIH
Duration: 03/05/09-05/31/22

PI: Yixin Fang(PI)
Department: Mathematical Sciences
Grant/Contract Project Title: Prevention of Foot Complications in Diabetes
Funding Agency: Department of Veterans Affairs
Duration: 08/01/17-08/31/17

In the News...

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

Senate Vote Nears on Defense Bill: The Senate version of the FY 2018 National Defense Authorization Act could come to the floor next week, and with it a blizzard of proposed amendments. See a [committee summary](#). The House passed [its version](#) before the August recess. Advocates for university-based research applaud a number of provisions in the Senate bill, including its rejection of most of the White House's basic research cuts. The bill supports Army Defense Research Sciences, Army University and Industry Research Centers, Army basic research support for the Third Offset strategy, and Navy University Research Initiatives. It authorizes additional money for the Manufacturing Engineering Education Program, enhances the Hollings Manufacturing Extension Partnership, and sustains the Manufacturing USA institutes related to defense. Particularly welcome is Section 211, giving the Pentagon flexibility to gain access to access to university technical expertise, including faculty, staff, and students, in 22 subject areas, ranging from cybersecurity to lasers, artificial intelligence, and shipbuilding. The committee report is posted on the website <https://www.armed-services.senate.gov/imo/media/doc/FY18%20NDAA%20Summary6.pdf>

National Academies Report on Powering Science: NASA's Large Strategic Science Missions (2017): "NASA's large strategic missions like the Hubble Space Telescope, the Curiosity rover on Mars, and the Terra Earth observation satellite are essential to maintaining the United States' global leadership in space exploration and should continue to be a primary component of a balanced space science program that includes large, medium, and smaller missions," says a National Academies press release introducing a [new report](#). "However, controlling the costs of these large missions remains vital in order to preserve the overall stability of the program." The report can be accessed from the website <https://www.nap.edu/catalog/24857/powering-science-nasas-large-strategic-science-missions>

Build STEM Work Environments That Retain STEM Skills: In recent years, news outlets have stressed the importance of science, technology, engineering and math (STEM) skills. How important are these skills?

- 75% of the fastest-growing occupations require STEM skills.
- U.S. employment in STEM fields has gone up more than 30% since 2000.

Fortunately, the work environment can be an asset, as opposed to a liability, for STEM organizations. When STEM organizations establish a motivating work environment, people want to stay and the organizations prosper. In this diverse and inclusive work environment, employees know what is expected of them, they have authority delegated to them and they are rewarded for performance. They also receive guidance and feedback that helps them succeed in their current jobs and prepare for the next ones. The complete report by Forbes is posted on the website <https://www.forbes.com/sites/forbescoachescouncil/2017/08/31/build-stem-work-environments-that-retain-stem-skills/#1d005762375c>

Research Integrity: In 2007, Congress passed the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act (America COMPETES Act), which among other things directed NSF to introduce a requirement for awardees to provide adequate

training for undergraduate students, graduate students, and postdoctoral researchers about the Responsible Conduct of Research (RCR).

By law, the National Science Foundation is supposed to require that institutions receiving grants train their undergraduates, graduate students, and postdoctoral researchers about the responsible conduct of research (RCR). NSF's Office of Inspector General (OIG) checked out 48 institutions and found that 11 - 23 percent - did not have an RCR plan or a designated person to make sure that the required participants took the training. Eight of the 11 developed a plan after being contacted by the OIG. **In a report**, the OIG says: "The lack of guidance from NSF as to what constitutes 'appropriate training' means that NSF cannot guarantee that the instruction provided in response to the RCR training requirement meets a minimum level of quality"; "Some institutions are engaged in promising practices or using techniques that are worthy of being shared with the broader community"; "No institutions are conducting risk assessments, despite the fact that NSF's FAQ says that they should"; "Requiring RCR training only for participants supported by NSF can have negative consequences"; and, "Although faculty play a critical role in the research enterprise and constitute a significant percentage of research misconduct subjects, only 15 percent of the plans we reviewed require faculty to take RCR training." More information on [https://www.nsf.gov/oig/pdf/RCR MIR Final 7-25-17.pdf](https://www.nsf.gov/oig/pdf/RCR_MIR_Final_7-25-17.pdf)

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](#).ⁱ 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.ⁱⁱ

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](#).ⁱⁱⁱ 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>

Webinar and Events

Event: Emerging Science Webinar: Proteogenomic strategies to advance drug development and precision medicine

When: September 6, 2017 12:00 PM

Website:

<http://view6.workcast.net/register?pak=6504789397441105&referrer=Blast3&et rid=79460182&et cid=1521195>

About the Webinar: The genomics era has had a profound impact on life science research, leading to significant developments such as the use of expression quantitative trait loci (eQTLs), which link polymorphisms in single genes to quantifiable changes in gene expression associated with specific diseases. As the end products and biological effectors of gene expression, proteins are crucial for improving our understanding of human biology, developing new and better drugs, and advancing precision medicine. Proteomics technologies have lagged behind their genomics counterparts, but recent breakthroughs are now combining these methods in powerful ways. The journey to clinical utility, however, remains challenging. Association of a protein biomarker with any given disease process, for example, needs to be assessed in terms of disease-independent, confounding factors that may modulate protein expression levels among different individuals. Moreover, understanding whether an associated protein is causally involved in (or merely reflects) a disease process is extremely valuable information for identifying new drug targets. Our panelists will discuss how multi-omics and epidemiological approaches are accelerating important advances in the use of protein biomarkers for clinical research and pharmaceutical development.

During the webinar, the speakers will:

- Discuss how covariates (genetic, environmental, and clinical) can affect the levels of potential biomarkers
- Explore the use of covariate modeling to establish personally normalized plasma protein profiles (PNPPP) to reduce non-disease-related variation and maximize clinical potential
- Describe how protein quantitative trait loci (pQTLs) can provide insights into disease biology and improve the efficiency of drug development
- Answer your questions during the live broadcast!

Presenters:

Anders Mälarstig, Ph.D., Pfizer, Stockholm, Sweden

Ulf Gyllensten, Ph.D., Uppsala University, Uppsala, Sweden

Register: To join the webinar, register at webinar.sciencemag.org

Event: Emerging Frontiers in Research and Innovation Program - Informational Webinar

When: September 7, 2017 1:00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=242816&org=NSF

About the Webinar: On Thursday, September 7th, from 1:00 to 2:30 pm Eastern time, the NSF Office of Emerging Frontiers and Multidisciplinary Activities (EFMA) will host a webinar to discuss the FY 2018 program solicitation of the [Emerging Frontiers in Research and Innovation \(EFRI\) program](#).

EFRI investigators pursue cutting-edge, interdisciplinary research with the potential for transformative impacts on national needs and grand challenges.

During this webinar, potential proposers to the program will be able to learn more about EFRI and ask questions about the [new EFRI solicitation](#).

The FY 2018 EFRI topics are:

- Chromatin and Epigenetic Engineering (CEE)
- Continuum, Compliant, and Configurable Soft Robotics Engineering (C3 SoRo)

Webinar attendance is limited, so prior registration is required. For those unable to watch the webinar live, the slides will be posted with a summary of questions and answers on this announcement after the meeting.

Register: To join the webinar, register at <https://tinyurl.com/EFRI-9-7-2017>

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

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

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](#))

Grant Opportunities

National Science Foundation

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

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 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

Grant Program: Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR)

Agency: National Science Foundation NSF 17-590

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17590/nsf17590.htm>

Brief Description: The fields of science, technology, engineering, and mathematics (STEM) hold much promise as sectors of the economy where we can expect to see continuous vigorous growth in the coming decades. STEM job creation is expected to outpace non-STEM job creation significantly, according to the Commerce Department, reflecting the importance of STEM knowledge to the US economy.

The National Science Foundation (NSF) plays a leadership role in development and implementation of efforts to enhance and improve STEM education in the United States. Through the NSF *Improving Undergraduate STEM Education* (IUSE) initiative, the agency continues to make a substantial commitment to the highest caliber undergraduate STEM education through a Foundation-wide framework of investments. The IUSE: EHR program is a core NSF undergraduate STEM education program that seeks to improve the effectiveness of undergraduate STEM education for both majors and non-majors. The program is open to application from all institutions of higher education and associated organizations. NSF places high value on educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate populace. In pursuit of this goal, IUSE: EHR supports projects that have the potential to improve student learning in STEM through development of new curricular materials and methods of instruction, and development of new assessment tools to measure student learning. In addition to innovative work at the frontier of STEM education, this program also encourages replications of research studies at different types of institutions and with different student bodies to produce deeper knowledge about the effectiveness and transferability of findings.

IUSE: EHR also seeks to support projects that have high potential for broader societal impacts, including improved diversity of students and instructors participating in STEM education, professional development for instructors to ensure adoption of new and effective pedagogical techniques that meet the changing needs of students, and projects that promote institutional partnerships for collaborative research and development. IUSE: EHR especially welcomes proposals that will pair well with the efforts of NSF INCLUDES (https://www.nsf.gov/news/special_reports/nsfincludes/index.jsp) to develop STEM talent from all sectors and groups in our society. Collaborations are encouraged between IUSE proposals and existing INCLUDES projects, provided the collaboration strengthens both projects.

For all the above objectives, the National Science Foundation invests primarily in evidence-based and evidence-generating approaches to understand and improve STEM learning and learning environments, improve the diversity of STEM students and majors, and prepare STEM majors for the workforce. In addition to contributing to STEM education in the host institution(s), proposals should have the promise of adding more broadly to our understanding of effective teaching and learning practices.

The IUSE: EHR program recognizes and respects the variety of discipline-specific challenges and opportunities facing STEM faculty as they strive to incorporate results from educational research into classroom practice and work with education research colleagues and social science scholars to advance our understanding of effective teaching and learning.

Toward these ends the program features two tracks: (1) Engaged Student Learning and (2) Institutional and Community Transformation. Two tiers of projects exist within each track: (i) Exploration and Design and (ii) Development and Implementation.

	<i>Exploration and Design</i>	<i>Development and Implementation</i>
Engaged Student Learning	Up to \$300K, for up to 3 years	Level 1: Up to \$600K, for up to 3 years Level 2: \$601K-\$2M, for up to 5 years
Institutional and Community Transformation	Up to \$300K, for up to 3 years	Up to \$3M, for up to 5 years

Awards: Standard Grant; **Anticipated Funding Amount:** \$73,000,000

Letter of Intent: Not Required

Proposal Submission Due Date:

December 12, 2017

Development and Implementation Tier for Engaged Student Learning & Institution and Community Transformation

December 11, 2018

Development and Implementation Tier for Engaged Student Learning & Institution and Community Transformation

Contacts: Myles G. Boylan, telephone: (703) 292-4617, email: mboylan@nsf.gov

- Ellen Carpenter, telephone: (703) 292-5104, email: elcarpen@nsf.gov
- Abiodun Ilumoka, telephone: (703) 292-2703, email: ailumoka@nsf.gov

Grant Program: Division of Molecular and Cellular Biosciences: Investigator-Initiated Research Projects (MCB)

Agency: National Science Foundation NSF 17-589

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17589/nsf17589.htm>

Brief Description: The Division of Molecular and Cellular Biosciences (MCB) supports quantitative, mechanistic, predictive, and theory-driven fundamental research designed to promote understanding of complex living systems at the molecular, subcellular, and cellular levels. While recognizing the need for thorough and accurate descriptions of biological complexes and pathways, the priority of the Division is to support work that advances the field by capturing the predictive power of mechanistic, quantitative, and evolutionary approaches. MCB is soliciting proposals in four core clusters:

- Cellular Dynamics and Function
- Genetic Mechanisms
- Molecular Biophysics
- Systems and Synthetic Biology

MCB gives high priority to research projects that use theory, methods, and technologies from life and physical sciences, mathematics, computational sciences, and engineering to address major biological questions that elucidate the rules governing subcellular and cellular processes. Research supported by MCB uses a range of experimental and computational approaches--including *in vivo*, *in vitro*, and *in silico* strategies--and a broad spectrum of model and non-model organisms, including microbes and plants. Typical research supported by MCB integrates theory and experimentation. Projects are particularly welcome that address the emerging areas of: multi-scale integration; transformative methods and resources (when driven by compelling biological questions); molecular and cellular evolution; the synthesis of life-like systems; and the quantitative prediction of the phenome from genomic information. Highest funding priority is given to applications that have outstanding intellectual merit and strong broader impacts, while proposals with weaknesses in either category (or those that are perceived as likely to have an incremental impact) will not be competitive. Proposals that are motivated by relevance to human health and disease treatment are not appropriate for the Division and will be returned without review.

Awards: Standard Grant; **Anticipated Funding Amount:** \$83,000,000

Letter of Intent: Not Required

Proposal Submission Due Date: November 20, 2017

Contacts: Charles Cunningham, telephone: (703) 292-8440, email: mcb-cdf@nsf.gov

- Arcady Mushegian, telephone: (703) 292-8440, email: mcb-gm@nsf.gov
 - Engin Serpersu, telephone: (703) 292-8440, email: mcb-mb@nsf.gov
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Grant Program: Social, Behavioral & Economic Sciences (SBE) Postdoctoral Research Fellowships (SPRF)

Agency: National Science Foundation NSF 17-588

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17588/nsf17588.htm>

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

Awards: 15-20 Fellowships; **Anticipated Funding Amount:** \$3,000,000

Letter of Intent: Not Required

Proposal Submission Due Date: November 01, 2017

Contacts: Josie S. Welkom - Actg Program Officer, telephone: (703) 292-7376, email: jwelkom@nsf.gov

- Lisa M. Jackson - Program Specialist, telephone: (703) 292-7882, email: lmjacks@nsf.gov
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National Institutes of Health

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.

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.

Grant Program: BRAIN Initiative: Research on the Ethical Implications of Advancements in Neurotechnology and Brain Science (R01)

Agency: National Institutes of Health RFA-MH-18-500

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-18-500.html>

Brief Description: One of the defined themes in the BRAIN 2025 report is: “*Considers ethical implications of neuroscience research.*” Although ethical issues that are common to other areas of biomedical science also impact brain research, there are special ethical considerations unique to brain research. Considering that the brain gives rise to consciousness, our innermost thoughts, and our most basic human needs, it comes as no surprise that mechanistic studies of the brain have revealed novel social and ethical questions. With respect to research supported by the BRAIN Initiative, it is clear there are additional ethical issues in areas such as brain imaging and modulation, data privacy, informed consent, and a host of additional opportunities that warrant focused attention. These critical issues should be considered through thoughtful discussion and empirical research. Specifically, the BRAIN 2025 report describes the importance of “Support for data-driven research to inform ethical issues arising from BRAIN Initiative research, ideally with integrated activities between ethicists and neuroscientists.” In addition, feedback solicited through a recent [BRAIN Neuroethics Request for Information](#) underscores that the broader public and scientists alike endorse that scientific advances and technology development are well-served by thoughtful consideration of potential ethical issues.

Awards: Application budgets are limited to \$300,000 in direct costs in any project year, and 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, 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

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.

Grant Program: CREATE Bio Optimization Track for Biologics (SBIR-U44) (U01)

U01 Research Project – Cooperative Agreements

PAR-14-288, UG3/UH3 Exploratory/Developmental Phased Award Cooperative Agreement

Agency: National Institutes of Health PAR-17-457

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-17-457.html>

Brief Description: This Funding Opportunity Announcement (FOA) is part of a suite of complementary programs to encourage the translation of research discoveries into new treatments for disorders that fall under the NINDS mission.

The NINDS Cooperative Research to Enable and Advance Translational Enterprises for Biologics (CREATE Bio) program is dedicated to biotechnology product- and biologics-based therapies, which broadly include modalities such as peptides, proteins, oligonucleotides, gene therapies, cell therapies and novel emerging modalities. The program includes two tracks: the Optimization Track supports optimization in order to obtain a candidate appropriate for entering the Development Track, and the Development Track supports IND-enabling studies for the candidate. For entry into the Optimization Track, projects must have strong scientific rationale and demonstrate relevant, convincing *in vivo* data of one or more agent(s) that are sufficiently profiled so that the parameters to be optimized can be quantitatively specified (see entry criteria for details) in the application. At the end of the funding period, a candidate should be identified that has sufficient bioactivity, stability, manufacturability, bioavailability, *in vivo* efficacy and/or target engagement (measurement of target binding or proximal downstream effects) with defined minimal and optimal doses, and other favorable properties consistent with the desired clinical application (see Scope below for details).

Projects are funded through the SBIR U44 cooperative agreement award mechanism, which involves NINDS Scientific/Research staff's participation in developing the project plan, monitoring research progress, and establishing appropriate milestones. NINDS staff will also provide assistance to academic investigators in guiding them with the therapeutic development process and the criteria needed to advance therapeutic leads to the clinic.

For more information about earlier stage translational funding opportunities and programs, visit the [NINDS Division of Translational Research](#) website and, for more information specifically about the [CREATE Bio Program](#), visit the website. Applicants are strongly advised to read through the [CREATE Program FAQs](#).

Awards: Application budgets are not limited but must reflect the actual needs of the proposed project. Budgets for these projects will normally remain under \$700,000 total cost (direct costs, indirect costs, fee) per year in Phase I and \$4,000,000 total cost for Phase II (no more than \$1,500,000 in total costs per year in Phase II). Budget costs will likely fluctuate over the funding period based on the stage of the project.

Letter of Intent: Not Required

Deadline: February 13, 2018; July 18, 2018; February 13, 2019; July 18, 2019; February 13, 2020; and July 20, 2020, by 5:00 PM local time of applicant organization.

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

Grant Program: Point-of-Care Technologies Research Network Centers (U54)

Agency: National Institutes of Health PAR-17-453

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-17-453.html>

Brief Description: The network of POCTRN Research Centers will have broad expertise across many research areas and will cover multiple levels of technology readiness from proof of feasibility through products and procedures used in clinical practice (*See individual NIH Institute/Center Areas of Interest*). The scope of work covered within each Center will include 1) assessment and communication of unmet clinical needs in point-of-care testing; 2) collaborations with physical scientists, computational scientists, and engineers (as well as researchers from other relevant disciplines, as appropriate) on technology development projects;

3) development of external partnerships (e.g., technology, clinical, industry, and regulatory) necessary to move enabling technologies toward clinical applications; 4) clinical testing of prototype point-of-care devices and 5) creation of training opportunities for technology developers and other stakeholders on clinical issues related to the development of point-of-care devices. The POCTRN Research Centers provide support to point-of-care stakeholders through sub-awards and other resources (e.g. consultations, database tools, training modules, connections with clinical collaborators and providing de-identified clinical specimens for testing POC devices). A key component of the POCTRN Research Centers includes the ability to provide sub-award support for point-of-care projects that have significant potential to address clinical needs in point-of-care testing and for ultimate commercialization. It is expected that the POCTRN Research Center leadership will establish a review process, manage a solicitation and selection process for projects and the distribution of sub-award funds for point-of-care projects according to Center focus and milestones, budget period, availability of meritorious projects and the overall goal of transitioning functional prototypes out of the Center toward later- stage clinical testing and commercialization. Proposed technology development projects submitted in this application will be initiated at the onset of the grant award. The selection of future sub-award projects for funding beyond those presented in the initial grant application, will be made in consultation with the Scientific Officers and approved by the NIH Program Officer. The details of the full governance structure are provided in Section VI.2, “Cooperative Agreement Terms and Conditions of Award”. Although Center institutions may receive funding for collaborative sub-award projects, it is expected that the majority of funds will be used to fund sub-award projects outside of the U54 awardee institution.

Organizational Structure

The structure of a POCTRN Research Center will consist of in-house scientific and point-of-care technological expertise and the clinical partnerships necessary to facilitate the identification and integration of enabling technologies into devices that address defined clinical needs. Each POCTRN Research Center will be comprised of four Core Components: (1) Administrative (*Admin Core*); (2) Technology Development/Refinement (*Technology Dev Core*); (3) Clinical Translation and Validation (*Clinical Trans Valid*) and (4) Technology Training and Dissemination (*Technology Train Dis*).

1) Admin Core

The appropriate leadership and structure to manage the many facets of these large and complex Centers will be a key component in establishing a successful Center. The Admin Core serves as the managing component of the Center that is charged with effectively leading the organization, governance, collaboration within the Network, communication with stakeholders, as well as evaluation and continuous improvement in quality and efficiency of the Research Center by establishing an External Advisory Board (EAB). The EAB is appointed by the Center Program Director/Principal Investigator (PD/PI) and advises the PD/PI on future directions of the Center. The Center’s Scientific Subcommittee of the Network Steering Committee will also provide scientific and administrative oversight of Center functions, including the review and selection of projects to receive sub-award funding.

2) Technology Dev Core

The Technology Dev Core identifies, evaluates and supports point-of-care technology development/refinement in-house and external to the Center. Support can be in the form of sub-awards, tools and/or other resources. It is expected that the project period for sub-awarded projects will be 6 months up to two years to allow for several technologies to be tested and moved into the next stage of clinical testing during the five-year grant period. Exceptions to this are possible if justification is provided for an extended project period. Therefore, adequate funds

should be budgeted in later years of the grant period to allow for transitioning or retiring current projects and recruiting and selecting new technology development/refinement projects. The first round of sub-awards are to be made in Year one of the grant period. Although there is flexibility in the support amount and time periods of the sub-awards, 6 month awards at \$50,000 or 1 year at \$100,000 is suggested. The number of awards would depend on meritorious applications and the Center's goals and budget.

3) Clinical Trans Valid Core

Clinical validation, adoption, and feasibility testing are necessary to ensure that the prototypes supported under this program will have a reasonable rate of success for public uptake.

POCTRN Research Centers are expected to validate the prototypes, and undertake rigorous feasibility and adoption testing for the point-of-care devices in both clinical and “real-world” settings. Examples of intended-use settings include, but are not limited to, the integration of the point-of-care-technologies into clinical workflow (private offices and academic practices), within low-resource settings and among the intended users and/or caregivers. An important characteristic of funded Research Centers is therefore the ability to collaborate effectively with entities that possess the resources and expertise to commercialize the prototype devices developed through Research Center activities. Support for clinical translation can also be in the form of sub-awards, tools and/or other resources.

4) Technology Train Dis Core

The Technology Train Dis Core provides training activities for point-of-care technology stakeholders such as scientists, engineers, clinicians and other medical professionals, patients, policy makers and investors. Within the Technology Train Dis Core, the Research Centers will also conduct assessments of clinical and user needs to inform device design and further define and disseminate publicly available clinical needs information.

Awards: Application budgets are not limited but it is strongly recommended that applicants not request a budget of more than \$1.2M in direct costs per year. Facilities and administrative costs requested by consortium participants are not included in the direct cost limitation.

Letter of Intent: 6 weeks prior to the application due date

Deadline: October 27, 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.

Department of Defense/US Army/DARPA/ONR

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

Grant Program: Breast Cancer Research Program Innovator Award

**Agency: Department of Defense Congressionally Directed Medical Research Programs
W81XWH-17-BCRP-INNOV2**

Website: <http://cdmrp.army.mil/funding/pa/FY17-BCRP-IA.pdf>

Brief Description: The BCRP has prepared a brief overview, The Breast Cancer Landscape, that describes what is currently known about the most pertinent topics that are consistent with the BCRP's vision of ending breast cancer. Applicants are strongly urged to read and consider The Breast Cancer Landscape before preparing their applications. The Landscape may be found at http://cdmrp.army.mil/bcrp/pdfs/bc_landscape.pdf

The Innovator Award supports visionary individuals who have demonstrated exceptional creativity, innovative work, and paradigm-shifting leadership in any field including, but not limited to, breast cancer. The Innovator Award will provide these individuals with the funding and freedom to pursue their most novel, visionary, high-risk ideas that could accelerate progress to ending breast cancer. Because the intent of the Innovator Award mechanism is to recognize these remarkably creative and innovative visionary individuals, rather than projects, the central feature of the award is the innovative contribution that the Principal Investigator (PI) can make toward ending breast cancer. The PI should have a record of challenging the status quo, shifting paradigms by changing a field of research or approach to patient care, exhibiting high levels of creativity, and demonstrating promise for continued innovation in future work. These rare individuals will be able to articulate a vision for ending breast cancer that challenges current dogma and demonstrates an ability to look beyond tradition and convention. The PI is also expected to be established in his/her field and have demonstrated success at forming and leading effective partnerships and collaborations. To further the development of innovative individuals and spark the generation of novel ideas, applications are required to incorporate the mentoring of promising junior investigators. Experience in breast cancer research is not required; however, the application must focus on breast cancer, and the PI must maintain a 50% dedication of his/her full-time professional effort during the award period to breast cancer research. This professional effort in breast cancer research can be through a combination of this award and other current support. Individuals from other disciplines who will apply novel concepts to breast cancer are

encouraged to submit. The PI is expected to assemble a research team that will provide the necessary expertise and collaborative efforts toward accomplishing the research goals. The PI's research team must include two or more breast cancer consumer advocates. As lay representatives, the consumer advocates must be individuals who have been diagnosed with breast cancer and are actively involved in a breast cancer advocacy organization. Their role should be independent of their employment, and they cannot be employees of any of the organizations participating in the application. The consumer advocates should have a high level of knowledge of current breast cancer issues and the necessary background or training in breast cancer research to contribute to the project. Their role should be focused on providing objective input on the research and its potential impact for individuals with, or at risk for, breast cancer.

Awards: Standard Grants

Proposal Deadline:

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 29, 2017

Invitation to Submit an Application: November 1, 2017

Application Submission Deadline: 11:59 p.m. ET, December 21, 2017

Confidential Letters of Recommendation Submission Deadline: 5:00 p.m. ET, December 27, 2017

Contact Information: CDMRP Help Desk: 301-682-5507 Email: help@eBRAP.org

Grant Program: DoD, Peer Reviewed Alzheimer's Research

Agency: Department of Defense

W81XWH-17-PRARP-RPA	DoD Peer Reviewed Alzheimer's, Research Partnership Award
W81XH-17-PRARP-CSRA	DoD, Peer Reviewed Alzheimer's
W81XWH-17-PRARP-QUAL	DoD Peer Reviewed Alzheimer's, Quality of Life Research Award
W81XWH-17-PRARP-NIRA	DoD Peer Reviewed Alzheimer's, New Investigator Research Award

Website: <http://cdmrp.army.mil/prarp/default>

Brief Description: Several Research Topics in Basic Research: The FY17 Defense Appropriations Act provides \$15 million (M) to the Department of Defense Peer Reviewed Alzheimer's Research Program (PRARP) to support research which addresses the long-term consequences of traumatic brain injury (TBI) as they pertain to Alzheimer's disease (AD) and related dementias (ADRD). The research impact will benefit the military, Veteran, and civilian communities. The PRARP's mission is devoted to (1) understanding the association between traumatic brain injury (TBI) and Alzheimer's disease (AD)/Alzheimer's disease-related dementias (ADRD) and (2) reducing the burden on affected individuals and caregivers, especially in the military and Veteran communities. Consistent with the PRARP's mission and vision, the program faces 6 overarching challenges for FY17. These overarching challenges represent longstanding research goals for the program:

- **Paucity of Research Resources:** The paucity of research resources to examine the interrelationship between TBI and subsequent AD/ADRD for the military, Veteran, and civilian communities.
- **Paucity of Clinical Studies:** The paucity of clinical studies to examine the interrelationship between TBI and subsequent AD/ADRD for the military, Veteran, and civilian communities. This includes research into risk factors which may predispose individuals to AD/ADRD subsequent to TBI.

- **Diagnostic Technologies, Tests, Biomarkers, or Devices:** The need for technologies, tests, or devices to detect or prognose the progression to AD/ADRD subsequent to TBI. This includes research into risk factors which may predispose individuals to AD/ADRD subsequent to TBI.
- **Quality of Life:** The need for technologies, assessments, interventions, or devices to benefit individuals living with the common symptoms or deficits of TBI and AD/ADRD.
- **Caregiver Burden:** The need for technologies, assessments, interventions, or devices with the goal of reducing burden for caregivers of individuals living with the common symptoms or deficits of TBI and AD/ADRD.
- **Epidemiology:** The paucity of epidemiological research to examine the interrelationship between TBI and subsequent AD/ADRD for the military, Veteran, and civilian communities. This includes research into risk factors which may predispose individuals to AD/ADRD subsequent to TBI.

Awards: Standard Grants

Proposal Deadline: September 20, 2017; May need earlier submission of white paper.

Contact Information: CDMRP Help Desk: 301-682-5507 Email: help@eBRAP.org

Department of Energy

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

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

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

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

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). Notwithstanding the posting of this opportunity at FedBizOpps.gov, nspires.nasaprs.com, or Grants.gov, NASA reserves the right to determine the appropriate award instrument for each proposal selected pursuant to this announcement.

Awards: TBA

Response Deadline: December 15, 2017

Contact: Dr. Francis Chiaramonte,
Program Scientist for Physical Sciences

francis.p.chiaramonte@nasa.gov

Phone: 202-358-0693

Grant Program: ROSES 2017: Discovery Data Analysis

Agency: NASA NNH17ZDA001N-DDAP

Website:

<https://nspires.nasaprs.com/external/solicitations/summary.do?sollId=%7B410D2803-9FFE-F7D0-2CDA-6AABC9664AF5%7D&path=open&method=init>

Brief Description: The objective of the Discovery Data Analysis Program (DDAP) is to enhance the scientific return of Discovery Program missions and broaden the scientific participation in the analysis of data, both recent and archived, collected by Discovery missions.

Sources and Analysis of Mission Data: Spacecraft data used in DDAP investigations must be available in the Planetary Data System (PDS; <http://pds.nasa.gov/>), or equivalent publicly accessible archive(s), at least 30 days prior to the Step-2 submission deadline for DDAP proposals. Spacecraft data that have not been placed in such archives are not eligible for use in DDAP investigations. In all cases, it is the responsibility of the DDAP investigator to acquire any necessary data. Investigators are encouraged to contact the archive for assistance in identifying specifics of available datasets. Datasets to be used in the proposed work must be clearly and specifically identified in the proposal. Regardless of the archive(s) used, if the data to be analyzed have known issues that might represent an obstacle to analysis, the proposers must demonstrate clearly and satisfactorily how such potential difficulties will be overcome.

Awards: Up to 4-years award

Proposal Deadline: DDAP17 Step-1 Proposal: September 07, 2017

Contact: Thomas S. Statler Planetary Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Email: thomas.s.statler@nasa.gov Telephone: 202-358-0272

Grant Program: ROSES 2017: Rosetta Data Analysis

Agency: NASA NNH17ZDA001N-RDAP

Website:

<https://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=553869/solicitationId=%7BD8115F8F-DEFA-99CB-067C-742F41316A08%7D/viewSolicitationDocument=1/C.20%20RDAP.pdf>

Brief Description: The objective of the Rosetta Data Analysis Program (RDAP) is to enhance the scientific return of the Rosetta mission and broaden the scientific participation in the analysis of archived data collected from the Rosetta and Philae spacecraft.

Sources and Analysis of Mission Data: Spacecraft data used in RDAP investigations must be available in the Planetary Data System (PDS; <http://pds.nasa.gov/>), or equivalent publicly accessible archive(s), at least 30 days prior to the Step-2 submission deadline for RDAP proposals. Spacecraft data that have not been placed in such archives are not eligible for use in RDAP investigations. In all cases, it is the responsibility of the RDAP investigator to acquire any necessary data. Investigators are encouraged to contact the archive for assistance in identifying specifics of available datasets. Datasets to be used in the proposed work must be clearly and

specifically identified in the proposal. Regardless of the archive(s) used, if the data to be analyzed have known issues that might represent an obstacle to analysis, the proposers must demonstrate clearly and satisfactorily how such potential difficulties will be overcome. Proposals to RDAP must include a science investigation. Proposals to produce a higher order data product that enhances the science return from Rosetta, but does not include a science investigation, should be submitted to the Planetary Data Archiving, Restoration, and Tools (PDART) Program (program element C.7). Proposed work responsive to this call may include (1) data analysis tasks, (2) tasks that are not data analysis but are necessary to analyze or interpret the data, and (3) tasks that are not data analysis but that significantly enhance the use or facilitate the interpretation of Rosetta data. These tasks may incorporate theory, modeling, laboratory studies, correlative analyses, and/or other research; however, proposals that include tasks that are not data analysis must also incorporate the results of these tasks into the analysis or interpretation of Rosetta mission data in order to be responsive to this call.

Awards: Up to 4-years award

Proposal Deadline: RDAP17 Step-1 Proposal: September 07, 2017

Contact: Thomas S. Statler Planetary Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Email: thomas.s.statler@nasa.gov Telephone: 202-358-0272

National Endowment of Humanities

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

Whitehall Foundation

Grant Program: Whitehall Foundation Research Grants in Neurobiology

Agency: Whitehall Foundation

Website: <http://www.whitehall.org/about/>

Brief Description: The Whitehall Foundation, through its program of grants and grants-in-aid, assists scholarly research in the life sciences. It is the Foundation's policy to assist those dynamic areas of basic biological research that are not heavily supported by Federal Agencies or other foundations with specialized missions. In order to respond to the changing environment, the

Whitehall Foundation periodically reassesses the need for financial support by the various fields of biological research.

The Foundation emphasizes the support of young scientists at the beginning of their careers and productive senior scientists who wish to move into new fields of interest. Consideration is given, however, to applicants of all ages. The chief criteria for support are the quality and creativity of the research as well as the commitment of the Principal Investigator (a minimum time allocation of 20% is required). The principal investigator *must hold* no less than the position of assistant professor, or the equivalent, in order to participate in the application process. The applicant need not be in a tenure track position but must be an independent researcher and have Principal Investigator status at his/her institution, usually construed as having lab space independent of another Principal Investigator.

The Foundation does not award funds to investigators who have substantial existing or potential support, even if it is for an unrelated purpose. Applications may be held in abeyance until the results of other funding decisions are determined. While it is difficult to assign a specific dollar amount to this policy and each case is unique, the Foundation currently defines "substantial" as *approximately* \$200,000 per year (including both direct and indirect expense but excluding the Principal Investigator's salary).

The Foundation is currently interested in basic research in neurobiology, defined as follows: *Invertebrate and vertebrate (excluding clinical) neurobiology, specifically investigations of neural mechanisms involved in sensory, motor, and other complex functions of the whole organism as these relate to behavior. The overall goal should be to better understand behavioral output or brain mechanisms of behavior.*

The Foundation does not support research focused primarily on disease(s) unless it will also provide insights into normal functioning.

Awards: Research grants normally range from \$30,000 to \$75,000 per year.

The Grants-in-Aid program is designed for researchers at the assistant professor level who experience difficulty in competing for research funds because they have not yet become firmly established. Grants-in-Aid can also be made to senior scientists. All applications will be judged on the scientific merit and innovative aspects of the proposal, as well as on past performance and evidence of the applicant's continued productivity. Grants-in-Aid are awarded for a one-year period and do not exceed \$30,000.

Application Process: <http://www.whitehall.org/applying/>

Proposal Deadline:

	Summer Session	Fall Session	Spring Session
Letter of Intent deadline	January 15	April 15	October 1
Issuance of Application materials	April 1	July 1	December 15
Application deadline	June 1	September 1	February 15
Notification of Grant awards	August 15	December 1	May 15

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

American Association for Cancer Research

Grant Program: AACR NextGen Grants for Transformative Cancer Research

Agency: American Association for Cancer Research

Website: <http://www.aacr.org/Funding/Pages/Funding-Detail.aspx?ItemID=48#.Waye8xPyv-a>

Brief Description: The AACR NextGen Grants for Transformative Cancer Research represent the AACR's flagship funding initiative to stimulate highly innovative research from young investigators. This grant mechanism is intended to promote and support creative, paradigm-shifting cancer research that may not be funded through conventional channels. It is expected that these grants will catalyze significant scientific discoveries and help talented young investigators gain scientific independence.

The proposed research must represent a highly innovative approach to a major contemporary challenge in cancer research. The funded projects must have the potential to lead to groundbreaking discoveries in the field, and transform our understanding of the tumorigenesis process and/or our ability to treat, detect, or prevent cancer. The research can be in any area of basic, translational, or clinical science.

The grants provide \$450,000 over three years for expenses related to the research project, which may include salary and benefits of the grant recipient, postdoctoral or clinical research fellows, graduate students (including tuition costs), and research assistants, research/laboratory supplies, equipment, travel applicable to the research project, publication charges for manuscripts that pertain directly to the funded project, other research expenses, and indirect costs.

Awards: \$450,000 for 3 years; 3 awards

Letter of Intent: Required; Deadline: September 22, 2017

Proposal Deadline: January 8, 2018

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

Streamlyne Update

513 proposals were submitted in FY17. Since January 17, 307 proposals were submitted through streamline. In the last quarter (April-July), 34 proposals were submitted through the System-to-System (S2S) Streamlyne-Grants.gov module. 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](#)

In addition, most Frequently Asked Question (FAQs) from PIs are posted with answers on the same website as [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; and **Eric Hetherington, Director, Sponsored Research Programs Administration** 973-596-3631; eric.d.hetherington@njit.edu. The college representatives to help PIs on proposal submissions are

John McCarthy, NCE Director of Research

(973) 596-3247; john.p.mccarthy@njit.edu

Cristo Leon, CSLA Director of Research

(973) 596-6426; cristo.e.yanezleon@njit.edu

Nancy Henderson, CCS Project Manager

973-596-5687; nancy.henderson@njit.edu

Iris Pantoja, CoAD and SOM Project Manager

973-596-4483; irp3@njit.edu
