

# FUNDING OPPs & INFO

For Hajim School Researchers



Feb. 22, 2016

## EVENTS

**Wednesday, March 2, 2016, 1:00 – 2:00 p.m. EST - Free Webinar “Accelerating Innovation: Funding for Women Entrepreneurs in Biotechnology and Healthcare”** | [Register today](#) to join NCATS and its NIH co-hosts, along with the [Association for Women in Science \(AWIS\)](#)

### Energy Related Upcoming Events

**[2016 ARPA-E Energy Innovation Summit](#) Washington, DC - February 29 - March 2, 2016.** Premier event bringing together thought leaders to discuss cutting-edge energy issues and facilitate relationships to help move technologies to marketplace.

**[NY-Best Annual Conference & Meeting](#) Albany, NY - March 9-10, 2016.** Join industry leaders at Capture the Energy 2016, the largest energy storage conference in the Northeast. Conference topics include growing markets for energy storage and advancements in energy storage R&D.

**[EnergySMART Conference](#) Washington, DC - April 4-6, 2016.** The latest knowledge of how energy intelligence is reshaping the way we use energy. Meet top enterprises, energy service providers and technology leaders to rethink the industry and refine your approach to energy management.

**[Advanced Energy 2016](#) New York City - April 21 - 22, 2016.** One of the nation's foremost and widest-ranging conferences on energy technologies attracting industry leaders and researchers from 22 counties.

*This weekly message from Cindy Gary, Assistant Dean for Grants and Contracts, highlights research funding opportunities and announcements that are particularly relevant to Hajim School faculty, staff and students. If you have any questions, please contact [cindy.gary@rochester.edu](mailto:cindy.gary@rochester.edu) or call 253-5173.)*

## FUNDING OPPORTUNITIES

### Internal Funding

**Furth Fund** <https://rochester.edu/provost/facultyresources/furthfund/index.html>

**Deadline: February 26, 2016** \*Please notify me if you are applying, I am collecting all Hajim applications for Rob to then prioritize.

**Synopsis:** Provides early-career faculty with \$10,000 in research funds to help foster the development of promising scientists. Nominees should be junior, tenure-track faculty appointed in natural or biological science departments within Arts, Sciences & Engineering or the School of Medicine and Dentistry who have been hired within the past three academic years. Preference will be given to nominees who wish to use the award to support the active engagement of graduate students or postdocs in their research.

## **Funding**

NASA Umbrella solicitation <http://nspires.nasaprs.com>

### **SPACE TECHNOLOGY RESEARCH GRANTS PROGRAM, EARLY CAREER FACULTY**

<http://nspires.nasaprs.com/external/viewrepositorydocument?cmdocumentid=498142&solicitationId={AA23F9FA-2CA3-8811-55BA-678534C1B9FE}&viewSolicitationDocument=1>

CFDA Number 43.012

Space Technology – Research, Development, Demonstration, and Infusion 2016 (SpaceTech–REDDI–2016), NNH16ZOA001N

**Deadlines: Notices of Intent Due: March 4, 2016 (5 PM Eastern) Required; Proposals Due: April 1, 2016**

**Eligibility: PI must be a recent Ph.D. recipient, defined as having his/her degree conferred on or after January 1, 2009. PI must be an untenured Assistant Professor on the tenure track at the sponsoring U.S. university at the time of award. PI must be a U.S. citizen**

**Funding:** NASA plans to make approximately 6-8 awards as a result of this Appendix. Up to \$600,000 over 3 years.

### **DARPA-RA-16-05**

**Young Faculty Award – Modification 1**

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=281551>

**Deadline: April 5, 2016**

**Funding:** 24-month base period (a maximum of \$500,000). A limited number of YFA performers will be awarded a “Director’s Fellowship” with a maximum of an additional \$500,000 in follow-on funding for an additional estimated 12-month period.

**Eligibility:** Participation in the YFA program is limited to untenured Assistant or Associate Professors within five (5) years of appointment to a tenure-track position at a U.S. institution of higher education or equivalent at a non-profit science and technology research institution in the US.

**Synopsis:** solicits ground-breaking single-investigator proposals from junior faculty for research and development in the areas of physical sciences, engineering, materials, mathematics, biology, computing, informatics, and manufacturing of interest to DARPA's Biological Technologies Office (BTO), Defense Sciences Office (DSO) and Microsystems Technology Office (MTO). Specific topic areas of interest are noted.

## **National Science Foundation**

### **National Robotics Initiative 16-517**

<http://www.nsf.gov/pubs/2016/nsf16517/nsf16517.pdf>

**Deadline: March 07, 2016**

**Funding:** -NIH and USDA/NIFA will consider projects comprising one or more investigators with budgets ranging from approximately \$100,000 to \$250,000 per year in direct costs, with durations of one to three years.

- NSF, NASA, DOE, and DOD will consider projects comprising one or more investigators with budgets ranging from approximately \$100,000 to \$1,000,000 per year in total costs (direct and indirect) averaged over the duration of the project, with durations of one to three years with bulk of awards at lower end

**Synopsis:** NSF, NASA, NIH, USDA, DOE, DARPA and the DOD are participating with agency priorities referenced in the call. The purpose of this program is to support the development of this next generation of robotics, to advance the capability and usability of such systems and artifacts, and to encourage existing and new communities to focus on innovative application areas. It will address the entire lifecycle from fundamental research and development to manufacturing and deployment. Only one class of proposals will be considered in response to this solicitation; there will not be separate competitions for small, medium, and large proposals. An investigator may participate as PI or co-PI in no more than two proposals. Collaboration among academic, industry, non-profit and other organizations is strongly encouraged to establish better linkages between fundamental science and technology development and use, through partnerships among researchers, applications developers, users and industry. While the NRI encourages projects that include some aspects of technology development, fundamental research should dominate. Proposers focused on developmental work are encouraged to consider submission to SBIR and STTR programs. Support for common robot platforms can be added with supplements.

## **National Science Foundation**

### **Division of Advanced Cyberinfrastructure**

#### **International Research Network Connections (IRNC) 16-523**

<http://www.nsf.gov/pubs/2016/nsf16523/nsf16523.pdf>

**Deadline: March 17, 2016**

**Funding:** NSF expects to make 1-2 awards at up to \$900,000 total per year for a maximum of 4 years.

**Synopsis:** NSF expects to make 1-2 awards to link U.S. research networks with peer networks in Europe and Africa and leverage existing international network connectivity. High-performance network connections funded by this program are intended to support science and engineering research and education applications, and preference will be given to solutions that provide the best economies of scale and demonstrate the ability to support the largest communities of interest with the broadest services. The funded project(s) will join other awards made in 2015 in the program in assisting the U.S. research and education community by enabling state-of-the-art international network services and access to increased collaboration and data services. Through extended international network connections, additional research and production network services will be enabled, complementing those currently offered or planned by domestic research networks.

## **DARPA**

### **Signal Processing at RF (SPAR)**

#### **DARPA-BAA-16-20**

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=281657>

**Deadline: March 11, 2016**

#### **Funding:**

**Synopsis:** DARPA seeks to transform radio frequency (RF) systems by developing RF analog signal processing and nonreciprocal technologies that perform unprecedented levels of in-band interference suppression. The Signal Processing at RF (SPAR) technology aims to mitigate both self and externally generated interfering signals of known and unknown characteristics. The goal of SPAR is to demonstrate novel in-band signal interference mitigation technologies using analog signal processing techniques as well as novel chip-scale circulator approaches. Areas of Interest: Technical Area 1 (TA1) – RF Correlation Processing; Technical Area 2 (TA2) – Chip-Scale Circulators and Nonreciprocal Components; Technical Area 3 (TA3) – STAR Technology Demonstration

## **NIH**

### **Office of Research Infrastructure Programs/NIH/DHHS**

#### **High-End Instrumentation (HEI) Grant Program (S10) PAR-16-053**

<http://grants.nih.gov/grants/guide/pa-files/PAR-16-053.html>

**Deadline: May 16, 2016**

**Funding:** \$600,000 - \$2,000,000. When planning proposals, please allow sufficient time well before the deadline for discussions with the appropriate research deans about institutional commitment.

**Synopsis:** Office of Research Infrastructure Programs (ORIP) invites applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instruments or integrated systems that cost at least \$600,000. The maximum award is \$2,000,000. Types of instruments supported include, but are not limited to, X-ray diffraction systems, nuclear magnetic resonance (NMR) and mass spectrometers, DNA sequencers, biosensors, electron and confocal

microscopes, cell-sorters, and biomedical Imagers. This FOA will use the NIH S10 Biomedical Research Support Shared Instrumentation Grants award mechanism

## NIH

### **Division of Program Coordination, Planning and Strategic Initiatives, Office of Research Infrastructure Programs (ORIP)**

#### **Shared Instrumentation Grant Program (S10) PAR-16-054**

<http://grants.nih.gov/grants/guide/pa-files/PAR-16-054.html>

**Deadline: May 16, 2016**

**Funding:** \$50,000 - \$600,000. When planning proposals, allow sufficient time well before the deadline for discussions with the appropriate research deans about institutional commitment.

**Synopsis:** The ORIP Shared Instrument Grant (SIG) program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instrumentation or an integrated system that costs at least \$50,000. The maximum award is \$600,000. Types of instruments supported include, but are not limited to, X-ray diffraction systems, nuclear magnetic resonance (NMR) and mass spectrometers, DNA and protein sequencers, biosensors, electron and confocal microscopes, cell-sorters, and biomedical imagers. This program will use the NIH S10 award mechanism.

## National Science Foundation

### **Industry/University Cooperative Research Centers Program (I/UCRC) 16-504**

<http://www.nsf.gov/eng/iip/iucrc/home.jsp>

**Deadline: LOIs and Full Proposals: May 09, 2016, full July 11, 2016**

**Funding: Planning Grant: The award amount for a planning grant seeking to establish a new I/UCRC is \$15,000 per academic institution with a 12 –month duration.** The \$15,000 is for all applicable planning expenses including travel to the I/UCRC "boot camp" and is inclusive of applicable Indirect Costs. The I/UCRC "boot camp" informs planning grant awardees about the planning process, the I/UCRC model, member recruitment strategies and Center operations that are consistent with I/UCRC requirements.

**Full Center Awards: Phase I - First Five Year Center Award - Site meeting minimum membership requirement receives \$150,000 annually from NSF.**

**Phase II - Second Five Year Center Award - Site meeting minimum membership requirement receives \$100,000 annually from NSF.**

**Phase III - Third Five Year Center Award- Site meeting minimum membership requirement receives \$50,000 annually from NSF.**

The NSF level of funding for Phase I, Phase II and Phase III has been increased, and depends on the in-cash membership fees collected from IAB members

Membership: Sites in a multi-university Center:

Phase I: a minimum of \$150,000 in cash (no in-kind cash equivalent) annually and 3 distinct full members

Phase II: a minimum of \$200,000 in-cash (no in-kind cash equivalent) annually and 4 distinct full members

Phase III: a minimum of \$250,000 in-cash (no in-kind cash equivalent) annually and 5 distinct full members

Single University Center in any Phase: a minimum of \$400,000 in-cash (no in-kind cash equivalent) annually with a minimum of eight distinct full members.

**Synopsis:** Major changes have been made to the solicitation. I/UCRC program develops long-term partnerships among industry, academe, and government. The Centers are catalyzed by an investment from the National Science Foundation (NSF) and are primarily supported by industry Center members, with NSF taking a supporting role in the development and evolution of the Center. Each Center is established to conduct research that is of interest to both the industry members and the Center faculty. An I/UCRC contributes to the nation's research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an I/UCRC uses international collaborations to advance these goals within the global context.

## **New York State Energy Research and Development Authority (NYSERDA)**

### **PON 3198 Advanced Transportation Innovations**

<http://www.nyserdera.ny.gov/Funding-Opportunities/Current-Funding-Opportunities/PON-3198-Advanced-Transportation-Innovations>

**Deadline: April 26, 2016**

**Funding:** Up to \$2,700,000 of NYSERDA funding is available. All, some, or none, of the available funds may be awarded. It is preferred that the proposal contain non-NYSERDA funding of at least 50% of the total cost of the project. NYSERDA Funds - Feasibility studies up to \$75,000; Bench scale research and development up to \$150,000; Research and development projects up to \$500,000.

**Synopsis:** PON 3198 seeks proposals to support the development, demonstration, and commercialization of innovative transportation products, systems, and services. Project focus areas will be limited to: electric vehicles, public transportation, smart mobility, transportation demand management, and freight. Proposals will be evaluated on the basis of their energy, environmental, and economic development benefits. Up to \$2,700,000 of NYSERDA funding is available. All, some, or none, of the available funds may be awarded.

**View all NYSERDA Current Funding Opportunities** <http://www.nyserdera.ny.gov/Funding-Opportunities/Current-Funding-Opportunities>

**ARPA- E**

## **Innovative Development in Energy-Related Applied Science (IDEAS)**

**Deadline: September 30, 2016**

**Funding:** Up to \$500,000

**Synopsis:** Support of early-stage applied research to explore innovative new concepts with the potential for transformational and disruptive changes in energy technology. IDEAS awards may also support proof-of-concept research to develop a unique technology concept.

[View all ARPA-E funding opportunities](#)

## **National Science Foundation**

### **Cultivating Cultures for Ethical STEM (CCE STEM) 15-528**

<http://www.nsf.gov/pubs/2015/nsf15528/nsf15528.htm>

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

**Deadline: February 15, 2017**

**Funding:** ~\$450,000 up to maximum of 5 years

**Synopsis:** Proposals for innovative research projects to foster ethical STEM research in all of the fields of science and engineering that NSF supports, including within interdisciplinary, inter-institutional and international contexts. CCE STEM research projects will use basic research to produce knowledge about what constitutes responsible or irresponsible, just or unjust scientific practices and sociotechnical systems, and how to best instill students with this knowledge. Projects can include qualitative and/or quantitative approaches. Proposals should specify plans to deliver findings to appropriate research and educational communities and assist them to implement projects or programs based on the findings. CCE STEM awardees must share their findings with others via the Online Ethics Center for Engineering and Science