

# FUNDING OPPs & INFO

For Hajim School Researchers



Nov. 2, 2015

## WEBINARS

**NSF Grant Workshop – Conference Room Lattimore 306A (just down from my office): tomorrow – NOTE special session on CAREER tomorrow:**

**Tuesday, November 3, 2015**

8:30 a.m. – 9:30 a.m. EST – NSF Policy Update

11:10 a.m. – 11:40 a.m. EST – Office of the Inspector General

11:40 a.m. – 12:10 p.m. EST – Funding Mechanism Overview

1:20 p.m. – 2:20 p.m. EST – Emerging Research Institution (ERI) Roundtable

2:40 p.m. – 4:00 p.m. EST – Faculty Early Career Development (CAREER) Program

**NIH R01 – Conference Room 317, Thursday Nov 5 – Conference Room Lattimore 317 (main A&S Dean’s office area) from 2:00-4:00 PM**

**Thursday, November 5 2:00-4:00PM EST. Research Grant Projects R01**

**Webinar is designed to give participants useful insights into NIH’s application submission and peer review processes.**

Stop in for as much as you have time – open door so you can listen in and participate in as much as your schedule allows

*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

### National Science Foundation

**Dear Colleague Letter: Research Experiences for Undergraduates (REU) Supplemental Funding**

**[http://www.nsf.gov/pubs/2016/nsf16018/nsf16018.jsp?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2016/nsf16018/nsf16018.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click)**

**Deadline: Grantees are encouraged to submit these requests before March 30, 2016.**

**Funding:** CISE expects to provide up to \$8,000 per student per year through the REU supplemental support mechanism.

**Synopsis:** For single investigator projects, CISE REU supplemental funding requests should typically be for no more than two students for one year. Research teams funded through multi-investigator projects may request support for a larger number of students, commensurate with the size and nature of their projects. NSF

REU Program Announcement can be found:

<http://www.nsf.gov/pubs/2013/nsf13542/nsf13542.pdf>

**National Science Foundation  
Smart and Connected Health**

<http://www.nsf.gov/pubs/2013/nsf13543/nsf13543.htm>

**Deadlines:** INT projects will be funded up to a 4-year period up to a total of \$370,000 direct cost, plus applicable indirect costs, per year. It is expected that few awards will be made at the upper end of this range. Integrative Projects (INT): Multi-disciplinary teams spanning 1 to 4 years - December 10, 2015; Exploratory Projects (EXP): One or more investigators spanning 1 to 3 years - October 10, 2016

**Funding:** EXP awards will be funded over a 1 to 3 year period not exceeding \$170,000 direct cost, plus applicable indirect costs, per year for up to three years

**Synopsis:** The program includes two classes of proposals: 1. Exploratory (EXP) projects & 2. Integrative (INT) projects: Multidisciplinary teams. Proposals for health and healthcare research among collaborative teams to establish better linkages between fundamental science, clinical practice and technology development, deployment and use. Realizing the promise of disruptive transformation in health and healthcare will require well-coordinated, multi-disciplinary approaches that draw from the social, behavioral, and economic sciences, engineering, medicine, biology, and computer and information sciences. Addressing the challenges will require fundamental research and the development of new tools and methods across many dimensions, some of which are called for below:

1. Digital Health Information Infrastructure
2. From Data to Knowledge to Decisions
3. Empowering Individuals
4. Sensors, Devices and Robotics

**National Science Foundation**

**Integrative Strategies for Understanding Neural and Cognitive Systems (NSF-NCS) 16-508**

<http://www.nsf.gov/pubs/2016/nsf16508/nsf16508.htm>

**Deadline:** Letter of Intent (required) December 10, 2015 INTEGRATIVE FOUNDATIONS; Full January 26, 2016 INTEGRATIVE FOUNDATIONS

**Funding:** INTEGRATIVE FOUNDATIONS awards are anticipated to range from a total of \$500,000 to \$1,000,000 (including direct and indirect costs), with durations of 2 to 4 years. A request for a CORE+ SUPPLEMENT may be submitted in either of two ways: (1) Proposers may include a CORE+ SUPPLEMENT activity as a component of a new (or renewal) proposal submitted to the CISE, EHR, or ENG directorate, requesting additional funds of up to \$200,000; or (2) Investigators holding an existing award managed by CISE, EHR, or ENG may submit a post-award

request for supplemental funding of up to 20% of the existing award, not to exceed \$200,000

**Synopsis:** Two of the themes are continued from FY15: Neuroengineering and Brain-Inspired Concepts and Designs, and Individuality and Variation. Two additional integrative research themes are introduced: Cognitive and Neural Processes in Realistic, Complex Environments; and Data-Intensive Neuroscience and Cognitive Science.

The complexities of brain and behavior pose fundamental questions in many areas of science and engineering, drawing intense interest across a broad spectrum of disciplinary perspectives while eluding explanation by any one of them. Rapid advances within and across disciplines are leading to an increasingly interconnected fabric of theories, models, empirical methods and findings, and educational approaches, opening new opportunities to understand complex aspects of neural and cognitive systems through integrative multidisciplinary approaches. This program calls for innovative, integrative, boundary-crossing proposals that can best capture those opportunities.

NSF seeks proposals that are bold, risky, and transcend the perspectives and approaches typical of single-discipline research efforts. This cross-directorate program is one element of NSF's broader effort directed at Understanding the Brain, a multi-year activity that includes NSF's participation in the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative (<http://www.nsf.gov/brain/>). NSF envisions a connected portfolio of transformative, integrative projects that create synergistic links across investigators and communities, yielding novel ways of tackling the challenges of understanding the brain in action and in context. The program will consider two classes of proposals, for pursuit of integrative opportunities at two different levels of collaboration and coordination.

## **National Science Foundation Science, Technology, and Society**

<http://www.nsf.gov/pubs/2015/nsf15506/nsf15506.htm>

**Deadline:** February 2, 2016

**Funding:** STANDARD RESEARCH GRANTS - Total direct costs will rarely exceed \$400,000; SCHOLARS AWARDS - total direct costs will rarely exceed \$180,000; POSTDOCTORAL FELLOWSHIPS - total direct costs will rarely exceed \$120,000; CONFERENCE AND WORKSHOP SUPPORT - do not exceed \$25,000 in direct costs; DOCTORAL DISSERTATION RESEARCH IMPROVEMENT GRANTS (DDRIGs) - typically do not exceed \$10,000 in direct costs.

**Synopsis:** STS program supports proposals across the broad spectrum of STS research areas, topics, and approaches. Examples include, but are by no means limited to:

1. Societal aspects of emerging high-tech technologies (e.g., nanotechnology, synthetic biology, neuroscience, robotics, drones, ubiquitous computing, crowd

sourcing, remote-sensing)

2. Societal aspects of emerging low-tech technologies (e.g., paper microscopes; whirlwind wheel chairs)
3. Issues relating to equity, ethics, governance, sustainability, public engagement, user-centeredness, and inclusiveness.
4. Integration of traditional STS approaches with innovative perspectives from the arts or humanities.
5. Ethical, policy, and cultural issues regarding big data, surveillance and privacy in an increasingly networked world, and
6. The science of broadening participation in STEM disciplines.

### **National Science Foundation**

#### **Civil, Mechanical and Manufacturing Innovation (CMMI) Division**

<http://www.nsf.gov/div/index.jsp?org=CMMI>

**Deadline:** Deadline: February 16, 2106

CMMI Division is organized into four program clusters, each containing four to five research programs:

- [Advanced Manufacturing:](#)

Design of Engineering Material Systems  
Manufacturing Machines and Equipment  
Materials Engineering and Processing  
NanoManufacturing

- [Mechanics and Engineering Materials](#)

Biomechanics and Mechanobiology  
Design of Engineering Material Systems  
Mechanics of Materials and Structures

- [Resilient and Sustainable Infrastructures](#)

Civil Infrastructure Systems  
Decision Frameworks for Multi-Hazard Resilient and Sustainable Buildings  
Engineering for Natural Hazards  
Geotechnical Engineering and Materials  
Infrastructure Management and Extreme Events  
Natural Hazards Engineering Research Infrastructure  
Structural and Architectural Engineering

- [Operations, Design and Dynamical Systems](#)

Dynamics, Control and Systems Diagnostics  
Engineering and Systems Design  
Service, Manufacturing and Operations Research  
Systems Science