FUNDING OPPs & INFO

For Hajim School Researchers

Jan. 25, 2016

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 or call 253-5173.)

EVENTS

Events

Reminder - NSF and Department of Education Joint Webinar - January 25, 2016 2:00-3:00
Joint webinar featuring the National Science Foundation's Division of Human Resource Development (HRD) & Division of Undergraduate Education, and the Department of Education's Office of Post-Secondary Education (OPE) on Upcoming Funding Opportunities
To join the webinar, use the link below or copy into your browser: **www.bluejeans.com/530174640**

NY-BEST Energy Storage Outlook in New York State Webinar
Thursday, February 4, 2016, 2:00 - 3:00 PM EST – no cost as UR is a NY-BEST Member
Registration URL: https://cc.readytalk.com/cc/s/registrations/new?cid=iqm389u8ve0e
The webinar will include information on major State policy initiatives that may impact the energy storage industry, including the latest information on New York's Reforming the Energy Vision (REV) and Clean Energy Fund initiatives

FUNDING OPPORTUNITIES

Internal Funding Deadlines

2016-17 University Research Awards.
http://www.rochester.edu/research/university-research-awards.html
Deadline: February 1, 2016
In addition to the typical UR faculty membership, an application may be submitted by a UR faculty member (as the first-named, Lead Investigator) for a collaboration with faculty outside of the University of Rochester, as long as matching funds can be guaranteed from the US institution(s) in which non-UR faculty member(s) hold their primary appointment(s). International collaborations also may be entertained with the same criteria, some of which may be in-kind support, if demonstrated before the submission review.

Questions about the awards and completed applications should be directed to Adele Coelho, Faculty Outreach Coordinator in the Offices of the Provost and Senior Vice President for Research, at adele.coelho@rochester.edu.

PumpPrimer II: intramural funding program for Arts, Science and Engineering researchers
https://www.rochester.edu/college/pumpprimer/
Deadline: February 1, 2016
The increasingly competitive environment for extramural funding increases the need for proof of concept and/or pilot data in proposals and decreases funding of high-risk proposals. To help faculty secure extramural funding for bold new research directions
• Typical budgets will be $1-20K. In rare instances, budgets as large as $50K may be awarded.
• Cost-sharing with departmental resources is encouraged.

Applicants for both PumpPrimer I and II are expected to submit a proposal for external funding within 18 months of the allocation of intramural support. Both PumpPrimer mechanisms and Researcher Mobility Travel grants will require a brief final survey and final report to help us evaluate the effectiveness of this program. Questions, email me at cindy.gary@rochester.edu

NOTE: The following awards accept applications on an ongoing basis:

PumpPrimer I: Multi-institutional and/or multi-investigator research projects.
Increasingly, federal agencies are interested in research that brings together experts with complementary skills to address grand challenges. We encourage faculty to take on such large-scale initiatives because they benefit multiple AS&E faculty, increase the quality and stability of our research infrastructure, and increase our national and international visibility. The Dean's office may provide:
• Teaching relief for the faculty member who champions the project.
• Administrative support from our office for proposal preparation.
• Travel up to $5K for planning proposals that bring together multi-institutional researchers.
Researcher Mobility Travel Grants: International Research Collaboration
• Provide up to $5K to conduct overseas research visits (one to three months).
• Support for faculty research and expanding international collaborative networks.

Furth Fund https://rochester.edu/provost/facultyresources/furthfund/index.html
Deadline: February 26, 2016
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 Opportunities
L'Oréal USA For Women In Science Program – Fellowship
http://lorealusa.com/Foundation/Article.aspx?topcode=Foundation_AccessibleScience_Fellowships
Deadline: February 5, 2016
Synopsis: L'Oréal USA For Women in Science fellowship program awards five women postdoctoral scientists annually with grants of $60,000 each for their contributions in Science, Technology, Engineering and Math (STEM) fields and commitment to serving as role models for younger generations. The program is the U.S. component of the L'Oreal-UNESCO For Women in Science International Fellowships.
***ASE maintains a fellowships database that can be searched and contain the L'Oréal and hundreds of others, go to http://www.rochester.edu/fellowships/**

Department of Energy – Funding Opportunities
Office of Energy Efficiency & Renewable Energy Funding Opportunity Exchange
https://eere-exchange.energy.gov/
Office of Science issues a cross-cutting, open solicitation annually that is open year-round
http://science.energy.gov/grants/foas/open/
DOE - Industry Partnerships for Cybersecurity of Energy Delivery Systems (CEDS) Research
DE-FOA-0001441 CFDA 81-122
Deadline: March 22, 2016
Funding: majority of the awards will be in the $2,000,000 to $3,000,000 range, not including cost share (Cost share = least 20% of the total allowable costs for research and development phase(s) of projects and 50% of the total allowable costs for demonstration and commercial application phase(s) from non-federal sources)
Synopsis: CEDS within the Power Systems Engineering Research and Development (PSE R&D) Division of the Office of Electricity Delivery and Energy Reliability (OE) is conducting this Announcement seeking innovative cybersecurity defense approaches for the energy sector. The CEDS program has established partnerships over the past several years throughout the energy sector, government, national laboratories and universities to reduce the risk of energy delivery disruption resulting from a cyber event.
Topic Area 1 – Detect Adversarial Manipulation of Energy Delivery Systems Components
Topic Area 2 – Secure Integration of Renewable Energy and Energy Efficiency Resources
Topic Area 3 – Continual and Autonomous Reduction of Cyber Attack Surface for Energy Delivery Control Systems
Topic Area 4 – Supply Chain Cybersecurity for Energy Delivery Systems
Topic Area 5 – Innovative Technologies That Enhance Cybersecurity in the Energy Sector

DARPA Defense Science Office
Fundamental Limits of Photon Detection (Detect)
http://www.darpa.mil/work-with-us/opportunities?oFilter=2
DARPA-BAA-16-25
Deadlines:
o Abstract Due Date: **February 17, 2016**, 4:00 p.m.
o Full Proposal Due Date: **March 29, 2016,** 4:00 p.m.
Synopsis: Establish the first-principles limits of photon detector performance by developing new models of photon detection in a variety of technology platforms, and by testing those models in proof-of-concept experiments. These technology platforms may include superconductor detectors, semiconductor detectors, biologically-inspired detectors, hybrid designs that draw on elements of all three platforms, other existing platforms, or completely new technologies.

National Science Foundation
Research in the Formation of Engineers (RFE) PD 15-1340
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503584&WT.mc_id=USNSF_39&WT.mc_ev=click
Deadline: Deadline Date: February 17, 2016 (next deadline September 21, 2016)
Budget: recommended that all authors contact a cognizant program officer before submission, especially for proposals with a total budget over $300,000 or that do not have an engineering faculty member on the project team.
Synopsis: To create and support an innovative and inclusive engineering profession for the 21st Century. Competitive proposals advance understanding in engineering formation by grounding the proposed work in theory as well as relevant prior work. Proposals should clearly address why the proposed research fills gaps in existing knowledge and address how evaluation will inform the research effort and allow assessment of the project's impact and effectiveness. Professional Formation includes, but is not limited, to:
•Introductions to the profession at any age;
•Acquisition of deep technical and professional skills, knowledge, and abilities in both formal and informal

settings/domains;
•Development of outlooks, perspectives, ways of thinking, knowing, and doing;
•Development of identity as an engineer and its intersection with other identities; and
•Acculturation to the profession, its standards, and norms.

Limited Submission - Internal Deadline: February 19, 2016
http://www.rochester.edu/orpa/funding/limitedsub.html

National Science Foundation
Cybersecurity Innovation for Cyberinfrastructure 16-533
Link to program solicitation/guidelines:
http://www.nsf.gov/pubs/2016/nsf16533/nsf16533.htm?WT.mc_id=USNSF_25&WT.mc_ev=click
Funding Level: # Awards 7 to 9; Up to $1,000,000 total per award for up to three years. Regional Cybersecurity Collaboration awards will be supported at up to $500,000 total per award for up to two years.
Program Synopsis: Advancements in data-driven scientific research depend on trustworthy and reliable cyberinfrastructure. Researchers rely on a variety of networked technologies and software tools to achieve their scientific goals. These may include local or remote instruments, wireless sensors, software programs, operating systems, database servers, high-performance computing, large-scale storage, and other critical infrastructure connected by high-speed networking. This complex, distributed, interconnected global cyberinfrastructure ecosystem presents unique cybersecurity challenges. NSF-funded scientific instruments, sensors and equipment are specialized, highly-visible assets that present attractive targets for both unintentional errors and malicious activity; untrustworthy software or a loss of integrity of the data collected by a scientific instrument may mean corrupt, skewed or incomplete results. Furthermore, often data-driven research, e.g., in the medical field or in the social sciences, requires access to private information, and exposure of such data may cause financial, reputational and/or other damage.

Therefore, an increasing area of focus for NSF is the development and deployment of hardware and software technologies and techniques to protect research cyberinfrastructure across every stage of the scientific workflow.

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.
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
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.