

Office of Research Newsletter – November 14, 2014

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Part I. News and Announcements

NIH, Amgen Foundation and the Foundation for the NIH Announce Collaboration to Support Undergraduate Research Opportunities

Undergraduate students will learn lab work and science leadership skills with mentors from the National Institutes of Health at one of 17 facilities taking part in the Amgen Scholars Program to prepare students for careers in science. Beginning in 2015, NIH will participate as a host institution, appointing candidates who meet both the NIH and Amgen Scholars requirements. This is the first year that NIH will participate in the program in which scholars will spend the summer at NIH's main campus in Bethesda, Maryland, working with leading scientists. The program is made possible by an \$850,000 grant to the Foundation for the NIH from the Amgen Foundation.

“An important aspect of this opportunity is that it will provide real-world experience to undergraduate students from low-resource settings who lack opportunities to perform independent research during the school year,” said Sharon L. Milgram, Ph.D., Director of the NIH Office of Intramural Training & Education. “We know that getting this type of hands-on experience makes a difference in retaining students in the sciences.”

During their internships at NIH, the scholars will focus on projects to bridge the gap between foundational and applied science. Scholars will be matched with research mentors in the NIH Intramural Research Program and will participate in a customized curriculum that will teach leadership skills and prepare them for research-oriented careers. More about the Amgen Scholars Program at NIH can be found here: <https://www.training.nih.gov/amgenscholars>. Online applications begin November 15, 2014.

The Amgen Foundation's total commitment to the Amgen Scholars Program now reaches more than \$50 million, bringing the Amgen Foundation's total commitment to science, technology, engineering and math (STEM) education to over \$100 million globally.

More at <http://www.nih.gov/news/health/nov2014/od-12.htm>

You Are Invited to Attend a Conference on the Internet of Things: How Can Policymakers Help Build the Internet of Things

When: Thursday, December 4, 2014 from 1:00 PM - 5:00 PM

Where: Center for Data Innovation, Washington, D.C.

The Internet of Things represents the idea that ordinary objects—from thermostats and shoes to cars and lamp posts—will be embedded with sensors and connected to the Internet. Many of these changes will be subtle and go unnoticed by consumers, but the long-term effect could ultimately have an enormously positive impact on individuals and society. For example, efforts to reduce unnecessary energy usage will be accelerated by devices that automatically regulate energy usage in the home and office, while health care costs and outcomes can be improved with wearable medical technologies that help individuals track their health and monitor chronic conditions. Over the long term, the Internet of Things offers solutions to major social problems from improving transportation to reducing pollution, but achieving this vision of a fully-connected world will not happen without the cooperation of policymakers.

Join the Center for Data Innovation for an afternoon of conversation about the future of smart devices, smart communities, and the smart policies that will enable the Internet of Things. The conference will include remarks from special guest Senator Brian Schatz (D-Hawaii).

Panel 1: Smart Homes and Smart Devices

From reducing home energy bills to keeping families safe, the Internet of Things is poised to improve the life of consumers. Automated home systems can monitor and control energy use to cut down on bills, alert the police or fire department during an emergency when nobody is home, and help make consumers more comfortable. Wearable technologies, ranging from smart watches to smart onesies, can help track calories, monitor sleep habits, and even treat medical conditions. This panel will explore the opportunities for consumers to benefit from the Internet of Things, and how policymakers can enable these changes.

Panelists: Neil Chilson (Attorney-Advisor to Commissioner Ohlhausen, FTC), Vineet Shahani (Head of Commercial & Product Legal, Nest Labs), Ohad Zeira (Director of Global Product Management, Belkin)

Panel 2: Smart Cities and Smart Infrastructure

From smart trash cans to smart street lamps, integrating city infrastructure and public services into the Internet of Things has the potential address problems such as crime, traffic, and pollution. Smart roads can help reduce congestion, sensor-equipped bridges can help improve public safety, and smart buildings can help reduce the city's environmental impact. This panel will explore the future of smart cities, how they will benefit citizens, and what opportunities exist to leverage smart infrastructure to build more resilient communities.

Panelists: Hilary Cain, (Director of Technology and Innovation Policy, Toyota), Dan Hoffman (Chief Innovation Officer, Montgomery County, Maryland), Tonetta Oubari (Business Development and Strategy Manager, Verizon)

Panel 3: Smart Industry

From sensor-laden assembly lines to networked fleets, many businesses are beginning to invest in the Internet of Things to become more efficient, deliver better products and services, and increase sustainability. Smart factories allow for quantification and real-time monitoring of every step of the manufacturing process; networked supply chains can make international shipping and trade easier and more accountable, and ensure transparency in the sourcing of materials; and wearables can help businesses improve the health and safety of their workforce. This panel will explore how the Internet of Things will help unleash a new wave of industrial innovation and build new economic opportunities.

Panelists: Robert Ferrar (Intel), Alexa Marrero (Deputy Staff Director, House Energy & Commerce Committee), Eric Miller (Vice President, Policy, Innovation, and Competitiveness, Canadian Council of Chief Executives), Sokwoo Rhee (Associate Director, Internet of Things and Cyber-Physical Systems, NIST)

The registration is free. To register please go to <http://www.eventbrite.com/e/how-can-policymakers-help-build-the-internet-of-things-tickets-14055673899?aff=mcivte>

A Weekly Newsletter from DOE Office of Energy Efficiency and Renewable Energy (EERE): <http://apps1.eere.energy.gov/news/enn.cfm>

MARK YOUR CALENDAR

December 4, 2014, DTRA Broad Agency Announcement Webinar

Covered Topics:

- Introduction to the DTRA mission and its research and development goals and objective.
- Review of the December 1, 2014 Basic Research BAA eligibility, timelines, award types, and sizes.
- Review by the portfolio manager of each Basic Research topic advertised in the December 1, 2014 BAA.
- Question and Answer session on specific research topics and overall BAA eligibility, timelines, award structure.

More at <https://www.signup4.net/public/ap.aspx?EID=BAAW11E&OID=50>

Part II. Funding Opportunities

DOD

DOD Neurosensory and Rehabilitation Research Award Grant

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=269497>

Pre-Application Due Date: December 10, 2014. Invitation to Submit an Application: January 5, 2015. Application Due Date: February 11, 2015

Strategic Environmental Research and Development Program (SERDP) Exploratory Development (SEED)

https://www.fbo.gov/index?s=opportunity&mode=form&id=9d3df4076d2ba2dc20202bad5428c06f&tab=core&_cview=0

March 10, 2015

AFRL

AFRL/RXC Structural Materials Open/Open BAA Program

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=246533>

White papers may be submitted at any time upon issuance of this BAA until November 4, 2018.

DOE

Building America Industry Partnerships for High Performance Housing Innovations

<https://eere-exchange.energy.gov/#FoaIdacda0992-e9f1-4bb0-a0ab-ff7ccc8b6052>

Concept Paper Due Date: December 12, 2014. Full Application Due Date: February 4, 2015

Buildings University Innovators & Leaders Development (BUILD)

<https://eere-exchange.energy.gov/#FoaIdb1ef4b8e-7e75-43fc-a2ac-af86bb5d3a75>

Concept Paper Due Date: December 19, 2014. Full Application Due Date: February 11, 2015

Transnet

<https://www.fedconnect.net/fedconnect/?doc=DE-FOA-0001199&agency=DOE>

December 22, 2014

NASA

Climate Indicators and Data Products for Future National Climate Assessments

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={A9FB3106-32E2-4A77-4A7C-14BD5EF86752}&path=open>

NOI Due Date: December 2, 2014. Proposal Due Date: February 2, 2015

MUREP Institutional Research Opportunity (MIRO)

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=269420>

January 30, 2015

NIH

Request for Information (RFI): Making Data Usable--A Framework for Community-Based Data and Metadata Standards Efforts for NIH-relevant Research

<http://grants.nih.gov/grants/guide/notice-files/NOT-ES-15-002.html>

December 5, 2014

Stem Cell-Derived Blood Products for Therapeutic Use (R01)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-022.html>

LOI Due Date: January 20, 2015. Application Due Date: February 20, 2015

Academic-Community Partnership Conference Series (R13)

<http://grants.nih.gov/grants/guide/pa-files/PA-15-032.html>

January 29, 2015, November 17, 2015, November 17, 2016

Training Program for Institutions That Promote Diversity (T32)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-007.html>

February 18, 2015

BRAIN Initiative: Planning for Next Generation Human Brain Imaging (R24)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-200.html>

LOI Due Date: February 18, 2015. Application Due Date: March 18, 2015

Short-Term Research Education Program to Increase Diversity in Health-Related Research (R25)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-008.html>

February 18, 2015

NSF

Earth Sciences: Instrumentation and Facilities (EAR/IF)

http://www.nsf.gov/pubs/2015/nsf15516/nsf15516.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Proposals Accepted Anytime

Law & Social Sciences (LSS)

http://www.nsf.gov/pubs/2015/nsf15514/nsf15514.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Dissertation Research, Standard and Collaborative Research and Interdisciplinary Postdoctoral Fellowships: February 4, 2015; January 15, 2016; January 15, Annually Thereafter. Standard and Collaborative Research and Interdisciplinary Postdoctoral Fellowships: August 3, 2015; August 1, Annually Thereafter

Algorithms in the Field

http://www.nsf.gov/pubs/2015/nsf15515/nsf15515.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

February 9, 2015. Second Monday in February, Annually Thereafter

DOC

Ocean Exploration 2015 Funding Opportunity

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=269435>

January 29, 2015

Please note that this bulletin is not intended to be an exhaustive listing of funding opportunities. Your input and feedback are always welcome. Please send your comments and requests to be removed from the distribution list to huangj7@rpi.edu.