

# Office of Research Newsletter – January 17, 2014

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## *Part I. News and Announcements*

### **NSF InfoBrief: Federal Budget Authority for R&D Declines in FYs 2012 and 2013; Increase Proposed for 2014**

New data indicate that federal budget authority for research and development and R&D plant together in FY 2012 totaled \$143.7 billion (current dollars). The corresponding figure for FY 2013 was an estimated \$133.5 billion, a decline of 7.1% over the FY 2012 level. This sizable drop in FY 2013 stemmed chiefly from the across-the-board spending cuts (sequestration) mandated by the Budget Control Act of 2011.

More at <http://www.nsf.gov/statistics/infbrief/nsf14306/>

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### **NSF Post Frequently Asked Questions (FAQs) for Improving Undergraduate STEM Education (IUSE)**

Improving Undergraduate STEM Education (IUSE, PD 14-7513) is part of the National Science Foundation's investment in research-based and research-generating approaches to understanding STEM learning; to designing, testing, and studying curricular change; to wide dissemination and implementation of best practices; and to broadening participation of individuals and institutions in STEM fields. The goals of these investments include: increasing student retention in STEM, to prepare students well to participate in science for tomorrow, and to improve students' STEM learning outcomes.

NSF accepts unsolicited proposals to support projects that address immediate challenges and opportunities facing undergraduate STEM education, as well as those that anticipate new

structures and functions of the undergraduate learning and teaching enterprise. In addition, NSF accepts unsolicited proposals for developing Ideas Labs in biology, engineering, and geosciences that will bring together relevant disciplinary and education research expertise to produce research agendas that address discipline-specific workforce development needs. Proposal Target Date: February 4, 2014

The FAQs are available at

[http://www.nsf.gov/pubs/2014/nsf14023/nsf14023.jsp?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14023/nsf14023.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click)

Details of the program are available at

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504976&org=EHR&from=home%20\(PD%2014-7513\)](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504976&org=EHR&from=home%20(PD%2014-7513))

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

### ***MARK YOUR CALENDAR***

**February 12-13, 2014, Scottsdale, AZ**  
*Sensorimotor Prosthetics Workshop*

The Microsystems Technology Office (MTO) of the DARPA is sponsoring an exploratory technical Workshop for the neural prosthesis community to develop concepts for restoring somatosensory and motor functions to persons with prosthetic limbs. The Workshop agenda will include a series of lectures and group discussions addressing one or more of the following themes: 1) Mechanics, sensing, and control of hand grasp in humans and robots, 2) Psychology and neurophysiology of touch and proprioception, 3) Peripheral nerve and myoelectric interfaces for volitional control, and 4) Peripheral nerve interfaces for restoring somatosensory functions.

Registration Deadline: February 3, 2014

More at

<https://www.fbo.gov/index?s=opportunity&mode=form&id=c67aa57eb821a54a33267eeac542c310&tab=core&cvview=0>

**June 30-July 2, 2014, Boston, MA**

*CSP Symposium at ASME 2014 8th International Conference on Energy Sustainability*

More at <http://www.asmeconferences.org/ESFuelCell2014/TechnicalTracks.cfm>

**August 17-21, 2014, San Diego, CA**

*Solar Energy + Technology 2014 Symposium*

More at <http://spie.org/x13194.xml>

## ***Part II. Funding Opportunities***

## ***DOD***

### **Kabul Polytechnic University Initiative**

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=249857>

February 9, 2014

## ***AFRL***

### **Pre-solicitation: Antenna and Electromagnetic Technology**

[https://www.fbo.gov/index?s=opportunity&mode=form&id=a95ee82d72051b04f4ae76074921e267&tab=core&\\_cvview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=a95ee82d72051b04f4ae76074921e267&tab=core&_cvview=0)

Proposal Due Date TBD

## ***NASA***

### **PACE Science Team**

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={B8E023B4-C695-B9FD-783B-46F746BB42C3}&path=open>

NOI Due Date: February 3, 2014. Application Due Date: March 31, 2014

### **Advanced Component Technology**

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={AA17AFE0-2BBB-43ED-AEFB-8EAC65020E05}&path=open>

NOI Due Date: February 7, 2014. Application Due Date: April 2, 2014

### **Earth Science Applications: Health and Air Quality**

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={ECF6C6B8-8B38-217D-A617-D19ABEBEC62F}&path=open>

NOI Due Date: February 27, 2014. Application Due Date: April 24, 2014

## ***NIH***

### **Neurobiology of Migraine (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-14-068.html>

February 5, 2014

### **Neurobiology of Migraine (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-14-069.html>

February 16, 2014

### **The Use of Polyethylene Glycol in the Pediatric Population (R01)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-002.html>

February 28, 2014

### **Limited Competition to Develop a BrainSpan RNA-seq Browser (R24)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-100.html>

LOI Due Date: February 28, 2014. Application Due Date: March 28, 2014

**Shared Instrumentation Grant Program (S10)**

<http://grants.nih.gov/grants/guide/pa-files/PA-14-073.html>

March 21, 2014

**Mentored Career Development Award in Biomedical Big Data Science for Clinicians and Doctorally Prepared Scientists (K01)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-007.html>

April 1, 2014; April 1, 2015

**Courses for Skills Development in Biomedical Big Data Science (R25)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-008.html>

April 1, 2014; April 1, 2015; April 1, 2016

**Open Educational Resources for Biomedical Big Data (R25)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-009.html>

April 1, 2014; April 1, 2015; April 1, 2016

**Alzheimer's Disease Core Centers (P30)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-001.html>

LOI Due Date: April 14, 2014. Application Due Date: May 14, 2014

**Alzheimer's Disease Research Centers (P50)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-002.html>

LOI Due Date: April 14, 2014. Application Due Date: May 14, 2014

***NSF***

**Faculty Early Career Development (CAREER) Program**

<http://www.nsf.gov/pubs/2014/nsf14532/nsf14532.htm>

July 21, 2014 (BIO, CISE, HER); July 22, 2014 (ENG); July 23, 2014 (GEO, MPS, SBE)

**Geography and Spatial Sciences Program (GSS)**

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503621&WT.mc\\_id=USNSF\\_39&WT.mc\\_ev=click](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503621&WT.mc_id=USNSF_39&WT.mc_ev=click)

DDRI Proposal Due Dates: February 13, 2014; Second Thursday in February, Annually Thereafter; October 9, 2014; Second Thursday in October, Annually Thereafter. Regular Proposal Due Dates: September 4, 2014; First Thursday in September, Annually Thereafter

***DOI***

**BAA for Proposed Research on Arctic Safety**

[https://www.fbo.gov/index?s=opportunity&mode=form&id=dbbc67978aa64ab5e1e50a0b011afeb&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=dbbc67978aa64ab5e1e50a0b011afeb&tab=core&_cview=0)

February 10, 2014

***DOT***

**Every Day Counts Initiative**

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=249979>

February 15, 2014

***EPA***

**National Center for Sustainable Water Infrastructure Modeling Research**

[http://www.epa.gov/ncer/rfa/2014/2014\\_star\\_sustainable-water.html](http://www.epa.gov/ncer/rfa/2014/2014_star_sustainable-water.html)

March 10, 2014

**Particulate Matter and Related Pollutants in a Changing World**

[http://www.epa.gov/ncer/rfa/2014/2014\\_star\\_pm.html](http://www.epa.gov/ncer/rfa/2014/2014_star_pm.html)

March 14, 2014

**Early Career Awards: Particulate Matter and Related Pollutants in a Changing World**

[http://www.epa.gov/ncer/rfa/2014/2014\\_star\\_pm.html](http://www.epa.gov/ncer/rfa/2014/2014_star_pm.html)

March 14, 2014

***NEA***

**NEA Literature Fellowships: Poetry, FY 2015**

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=249986>

March 12, 2014

***USDA***

**Agriculture and Food Research Initiative: Food Security Challenge Area**

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=249900>

LOI Due Date: March 14, 2014. Application Due Date: June 12, 2014

*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](mailto:huangj7@rpi.edu).*