Office of Research Newsletter – January 24, 2014

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Part I. News and Announcements

Funding Opportunities in Horizon 2020 Project

Horizon 2020 is the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness. Planned to run from 2014 to 2020 with a €70 billion preliminary budget, the EU's new program for research and innovation is part of the drive to create the conditions for new growth and jobs in Europe. Horizon 2020 focuses on advancing scientific knowledge and discovery, but also more than ever on making Europe more competitive through research. The program offers many possibilities for researchers and innovators from around the world - international cooperation is highly encouraged.

The European Commission has presented calls for projects under Horizon 2020, The first two years of funding (2014-2015) will be more than €15 billion and includes 12 focus areas :

- Personalizing Health and Care
- Sustainable Food Security
- Blue Growth: Unlocking the Potential of Seas and Oceans
- Digital Security
- Smart Cities and Communities
- Competitive Low-Carbon Energy
- Energy Efficiency
- Mobility for Growth
- Waste: A Resource to Recycle, Reuse and Recover Raw Materials
- Water Innovation: Boosting Its Value for Europe
- Overcoming the Crisis: New Ideas, Strategies and Governance Structures for Europe

- Disaster-Resilience: Safeguarding and Securing Society, Including Adapting to Climate Change

More at https://ec.europa.eu/programmes/horizon2020/node/119

NASA Offers Space Tech Grants To Early Career University Faculty

NASA's Space Technology Mission Directorate is seeking proposals from accredited U.S. universities on behalf of outstanding early career faculty members who are beginning their independent careers. The grants will sponsor research in specific, high priority areas of interest to America's space program. Aligned with NASA's Space Technology Roadmaps and priorities identified by the National Research Council, the agency has identified topic areas that lend themselves to the early stage innovative approaches U.S. universities can offer for solving tough space technology challenges.

NASA expects to award about five grants this fall, funded up to $200,000 each per year for as many as three years, based on the merit of proposals and availability of funds. Funded research will investigate unique, disruptive or transformational space technologies in areas such as *soft machines for robotic mobility and manipulation, science-based digital materials and manufacturing, and low size, weight, and power lasers.*

For future space exploration and applications here on Earth, NASA is seeking advances in flexible and form-changing machines. Soft machines are hybrids of soft and hard materials that are inherently strong against impact and unexpected collision. Soft machines hold promise for performing in situations where flexibility is required and it is difficult to predict when contact may occur, such as when planetary rovers traverse extreme terrain or when robotic manipulators operate in close proximity to humans.

As the requirements for aerospace structures become more complex and sophisticated, there also is a need to create an innovative capability for manufacturing ground and space structures. This research topic area seeks technologies in materials design, process modeling and material behavior prediction that will lead to new lightweight and multifunctional materials and structures.

The third topic area under this solicitation seeks to develop low size, weight, and power lasers that could be used for lower-cost, lighter-weight Earth science space platforms. Advanced lasers also may enable reliable, higher data rates while requiring less size, weight and power on future interplanetary space missions.

Notices of intent are due by Feb. 14. The deadline for submitting final proposals is March 14.

More at http://www.nasa.gov/press/2014/january/nasa-offers-space-tech-grants-to-early-career-university-faculty/

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&_cview=0

May 6-8, 2014, Wilmington, Delaware
The 16th Meeting of the Symposium on Polymers for Microelectronics
Abstract Submission Deadline Extended to February 1

More at http://www.symposiumonpolymers.com/

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

Broad Agency Announcement for Science, Technology, Engineering & Mathematics (STEM) Program
http://www.grants.gov/web/grants/view-opportunity.html?oppId=250248
January 31, 2015

ONR

Electronic Warfare Technology
http://www.grants.gov/web/grants/view-opportunity.html?oppId=249328
White Paper Due Date: February 5, 2013. Full Proposal Due Date: May 27, 2013

DHS

Applications for Detection of Biological Materials
https://www.fbo.gov/index?s=opportunity&mode=form&id=c8994c1849230a7127de221ab3e3d4ce&tab=core&_cview=0
January 31, 2014

DOE

FY 2014 Vehicle Technologies Program Wide FOA
https://eere-exchange.energy.gov/#FoaIdd95c8658-d41c-4447-9c66-a6051fe1f726
Concept Paper Due Date: February 19, 2014. Full Application Due Date: April 1, 2014

Vehicles Technologies Incubator
http://www.grants.gov/web/grants/view-opportunity.html?oppId=250086
February 28, 2014

Building Energy Efficiency Frontiers & Incubator Technologies (BENEFIT) 2014
https://eere-exchange.energy.gov/#FoaId18af125f-f127-42b0-aeeb-b677b1df465e
Proposal Due Date TBD

NASA

Early Career Faculty Grant
http://www.grants.gov/web/grants/view-opportunity.html?oppId=250286
NOI Due Date: February 14, 2014. Proposal Due Date: March 14, 2014

NIH

U.S.-South Africa Program for Collaborative Biomedical Research (U01)
http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-018.html
LOI Due Date: March 22, 2014. Application Due Date: April 22, 2014

Request for Proposal (RFP) Notice: Medication Discovery Using Rate Relapse Models
http://grants.nih.gov/grants/guide/notice-files/NOT-DA-14-039.html

NIST

National Strategy for Trusted Identities in Cyberspace Pilots Cooperative Agreement Program
http://www.nist.gov/nstic/NSTIC-Pilot-FFO-01-2014.pdf
March 6, 2014

Foundations

HHMI Investigator Program
http://www.hhmi.org/news/hhmi-investigator-program-launches-national-competition
June 3, 2014

The Howard Hughes Medical Institute (HHMI) seeks to appoint up to 25 new biomedical researchers through a national open competition. The initiative represents an investment of approximately $150 million in basic biomedical research over the next five years.

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.