Funding Opportunities (from the past 7 days)
For previous funding opportunities, see
http://teesresearch.tamu.edu/funding-opportunities/

LIMITED SUBMISSIONS
If you would like to receive all notices of limited submission opportunities, please email shelly.martin@tamu.edu. Note that if you are on this list, you will receive any and all announcements, whether or not they apply to you. All limited submission opportunities are also posted on the VPR’s site.

LIMITED SUBMISSION Faculty Development in the Space Sciences (FDSS) – Email of Intent Due June 2, 2015; Internal Proposal Due June 9, 2015

Air Force
Armament Technology Broad Agency Announcement (link)

DARPA
Communicating with Computers (CwC) (link)

DoD
New and Innovative Ideas for Technology Focused Areas of Interest (link)

NIH
BRAIN Initiative: Optimization of Novel Tools and Technologies for Neuroscience Research (R44) (link)

NSF LIMITED SUBMISSION Faculty Development in the Space Sciences (FDSS) (link)
Critical Techniques and Technologies for Advancing Foundations and Applications of Big Data Science & Engineering (BIGDATA) (link)
Dear Colleague Letter: Research Opportunities in Europe for NSF CAREER Awardees (link)

Upcoming Events
See also http://teesresearch.tamu.edu/events/ for a complete listing and links to handouts/presentations

This Week:

NSF CAREER Workshop
February 27, 2015
8:00 a.m.-2:30 p.m.
Rudder Tower, Room 501
Registration required
Breakfast and Lunch included.
Description:
Part 1 (8:30 a.m. – 12:30p.m.) – Preparing a Successful NSF CAREER or other Young Investigator Program Proposal (presentations and panel of YIP awardees and CAREER reviewers)
Part 2 (1:00 p.m. – 2:30 p.m.) – Writing an excellent departmental head support letter and Mentoring Faculty to Successfully Apply to Young Investigator Programs (Panel of current and former department heads)

Writing Successful Proposals I
March 4, 2015
1:00-5:00 p.m.
ILSB 3147
Registration required
Description: The workshop will cover best practices for successful proposals to federal and other funding agencies. Questions will be taken at the end of the session until all have been asked.

Lunch and Learn – RIG: Imaging/Non-destructive Evaluation
March 26, 2015
11:30 a.m. – 1:00 p.m.
CE/TTI 217
Lunch provided.
Registration required (coming soon)
Description: The goal of this RIG is to help form teams of researchers with unique applications for imaging with those developing new imaging methods.

**NSF Broader Impacts Workshop**
March 26, 2015
2:30-4:00 p.m.
ILSB 3147
[Registration required]

**Description:** The workshop will cover strategies and considerations relevant to the Broader Impacts requirement of grant proposals submitted to the National Science Foundation. Questions will be taken at the end of the session until all have been asked.

**Writing Successful Proposals II**
April 9, 2015
2:00-4:30 p.m.
ILSB 3147
[Registration required]

**Description:** The workshop will cover communication with Federal and other funding agencies, and location of needed funding programs and opportunities. Questions will be taken at the end of the session until all have been asked.

**8th Annual Intensive Course in Research Writing** – (This course is for non-native speakers of English.)
June 22-July 10, 2015
9:00 a.m.-12 noon – Monday-Friday
Veterinary Medicine Administration Building/Veterinary Teaching Hospital
Contact Dr. Barbara Gastel for more information; 979-845-6887; bgastel@cvm.tamu.edu
[More information]

**Description:** This 3-week course is designed mainly to help researchers increase their proficiency in writing and publishing scientific papers. It also includes instruction on related topics, such as giving oral presentations, preparing poster presentations, and writing grant proposals. To benefit fully from the course, participants should have research that is ready to write up or should have a drafted paper that is ready to revise.

**Collaborators Corner**

If you are looking for collaborators for a project/proposal or a piece of equipment, email your request to researchnews@tees.tamus.edu for inclusion in the next newsletter. If you can help, please email the requestor directly.
Texas A&M-led Research Aimed at Treating Brain Aneurysms Receives $2.5 Million NIH Grant

A Texas A&M University-led research effort aimed at treating potentially fatal brain aneurysms by filling them with polymer foams has received a $2.5 million grant from the National Institutes of Health (NIH) with the goal of beginning human trials by 2018.

The three-year grant, which is supported by the NIH National Institute of Neurological Disorders and Stroke (NINDS), is led by Duncan Maitland, professor in the Department of Biomedical Engineering at Texas A&M. Maitland’s team of researchers includes colleagues from his department, the College of Veterinary Medicine and Biomedical Sciences at Texas A&M, and the Mayo Clinic Medical School. The research is a collaboration between Maitland’s Biomedical Device Laboratory and the startup company Shape Memory Therapeutics.

The treatment, Maitland explains, makes use of special plastics called polyurethane-based shape memory polymer foams (SMPs) and could provide doctors with a more effective and less risky method for treating aneurysms – blood-filled, balloon-like bulges in the walls of a blood vessels that can rupture and cause neurological damage that is debilitating or even fatal, especially if near the brain.

Maitland is working to overcome the limitations of conventional treatment methods by employing an alternate filling method for aneurysms that relies on polyurethane-based SMP foam instead of platinum coils. These foams have the ability to be made into a primary shape and then transformed into another shape with an increase in temperature, Maitland notes. Their shape-shifting ability makes these foams an ideal material for filling aneurysms, he explains. In Maitland’s system, the SMP foam remains in a temporary crimped shape so that it can be inserted into a blood vessel and delivered to the aneurysm with the use of a microcatheter.

The team’s grant is titled, “Shape Memory Polymer Embolic Foams for Treating Cerebrovascular Aneurysms” and is funded under the NINDS Cooperative Program in Translational Research (U01).

Shape Memory Therapeutics has contracted with BioTex, Inc., a medical device manufacturer based in Houston to lead product development and manufacturing for the project. Ashok Gowda, president of BioTex, will work with the research team. Gowda is a 2014 Outstanding Alumni Award recipient of the Dwight Look College of Engineering at Texas A&M.

Additional senior team members include Elizabeth Cosgriff-Hernandez, associate professor in the Department of Biomedical Engineering at Texas A&M; Fred Clubb, director of the Cardiovascular Pathology Laboratory in the College of Veterinary Medicine and Biomedical Sciences at Texas A&M; Jonathan Hartman, chair of the Shape Memory Therapeutics advisory board; David Kallmes, professor of radiology at the Mayo Clinic Medical School; and Linda Mummah-Schedel, NAMSA Medical Research Manager. Pre-clinical, quality systems and regulatory support will be provided by NAMSA, a medical research organization providing expert regulatory, laboratory, clinical and compliance services to medical device and healthcare product manufacturers.
Look College Receives Award to Support Vertically Integrated Project Programs

The Dwight Look College of Engineering at Texas A&M University has been awarded a contract to support Vertically Integrated Projects (VIP) such as the AggiE-Challenge program. The contract is part of the $5 million grant awarded by The Leona M. and Harry B. Helmsley Charitable Trust to the VIP University consortium to support large teams of undergraduates working with graduate students and faculty on long-term research projects. The VIP Consortium is led by Georgia Tech University and the University of Michigan and consists of the following schools: Purdue University, Texas A&M University, Rice University, University of Washington, Howard University, Morehouse College, Florida International University, Boise State University, Colorado State University, University of Hawaii-Manoa, Virginia Commonwealth University and two international universities.

Dr. Prasad Enjeti, associate dean for academic affairs, is the principal investigator (PI) while Magda Lagoudas, executive director for industry partnerships, and Dr. Jeff Froyd, TEES research professor are co-PIs.

“We are thrilled to collaborate with our peer institutions in the VIP consortium and join our efforts to promote innovation and research among engineering undergraduates through working on real-world projects, graduate world-class engineers to address the needs of our nation, and improve retention of students in engineering,” Enjeti said.

The VIP funds will support two major efforts on the Texas A&M campus: (1) Improving the infrastructure for recruiting, registering, tracking, and evaluating the undergraduate students who participate in the VIP projects; and (2) Improving the processes through which the learning outcomes that have been established for the VIP projects, which are a subset of the learning outcomes required by ABET, are evaluated.

To view the complete story, please visit the website.