Research Interest Groups (RIGs) Coming this Spring

Research Interest Groups (RIGS) are designed to bring faculty together to identify other researchers with an interest in a specific topic for knowledge, assistance, and collaboration. RIGs are coordinated by the TEES Research Development group, on behalf of the Engineering Research Council, and are led by the participants. Any researcher with an interest in the topic is invited to attend. Announcements for the RIGs will be published in this weekly newsletter and online at http://teesresearch.tamu.edu/.

Topics we are working on:
- Imaging/Non-destructive Evaluation
- Deep Space
- Human Factors in Instrumentation and Controls

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

LIMITED SUBMISSION
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 NIH National Human Genome Research Institute Centers for Common Disease Genomics – Email of Intent Due January 28, 2015; Internal Proposal Due February 4, 2015

LIMITED SUBMISSION NIH National Human Genome Research Institute Centers for Mendelian Genomics – Email of Intent Due January 28, 2015; Internal Proposal Due February 4, 2015

LIMITED SUBMISSION Research Experiences for Teachers (RET) in Engineering and Computer Science – Email of Intent Due February 9, 2015; Internal Proposal Due February 11, 2015

LIMITED SUBMISSION NIH National Institute of Environmental Health Sciences Environmental Health Sciences Core Centers – Email of Intent Due February 11, 2015; Internal Proposal Due February 18, 2015
Air Force
Research Initiatives for Materials State Sensing (RIMSS) II (link)

DARPA
Materials for Transduction (MATRIX) (link)

Digital Manufacturing and Design Innovation Institute (DMDII)

DOE

NIH
LIMITED SUBMISSION NIH National Human Genome Research Institute Centers for Common Disease Genomics (UM1) (link)
LIMITED SUBMISSION NIH National Human Genome Research Institute Centers for Mendelian Genomics (UM1) (link)
LIMITED SUBMISSION NIH National Institute of Environmental Health Sciences Environmental Health Sciences Core Centers (EHS CC) (P30) (link)

NSF
LIMITED SUBMISSION Research Experiences for Teachers (RET) in Engineering and Computer Science – Supplements and Sites (link)

Texas Sea Grant College Program
Texas Sea Grant Request for Research Proposals FY 2016-2018 (link)

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

This Week: Researcher Orientation
January 30, 2015
8:30-11:30 a.m.
ETB 3002
Registration required
Agenda

Engaging with Industry – Panel Discussion
February 24, 2015
10 a.m. – 12 noon
ETB 3002
No registration needed.
Topics include: how to get started, what to expect, and mechanisms for success.
Networking time will be available at the end of the discussion.

**CAREER Workshop**
February 27, 2015
8:00 a.m.-2:30 p.m.
MEOB 301
[Registration required] – Online registration is now available!
Breakfast and Lunch included
Part 1 (8:30 a.m. – 12:30 p.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]

**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)

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

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

**8th Annual Intensive Course in Research Writing** – (This course is for non-native speakers of English.)
June 22-July 10, 2015
Research News

Elwany, Karaman and Arroyave Win NASA Research Grant

Dr. Alaa Elwany, assistant professor in the Department of Industrial and Systems Engineering at Texas A&M University, along with Dr. Ibrahim Karaman and Dr. Raymundo Arroyave from the Department of Materials Science and Engineering were awarded a $500,000 Early Stage Innovations (ESI) Research Grant from NASA for their proposal in response to the NASA SpaceTech-REDDI Research Announcement. Elwany is the PI on the proposal, while Karaman and Arroyave are the co-PIs.

A panel of subject matter experts assessed submissions against the criteria: relevance to NASA’s objectives, technical approach, management approach, and cost.

Early Stage Innovations is a part of the Space Technology Research, Development, Demonstration, and Infusion 2014 program. The program is an umbrella of research grants by NASA’s Space Technology Mission Directorate seeking aggressive technology development efforts that may require undertaking significant technical challenges and risk to achieve a higher potential payoff.

The grant money will support three Ph.D. students to be supervised by the project team members to investigate the fabrication of nickel-titanium shape memory alloys, commercially known as Nitinol, using selective laser melting (a laser-based additive manufacturing process).

“The award grant will be used by the team to study the additive manufacturing (3D Printing) of shape memory alloys,” Elwany said. “These alloys are very sensitive to manufacturing process parameters, and the focus of this project will be on reducing the variability in the performance of printed (manufactured) parts through microstructure control and design. Shape memory alloys have very promising application potential across many industry sectors, including the automotive, aerospace, and biomedical sectors.”

To view the complete story, please visit the [website](#).
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