**Engineering Research Digest**

A weekly newsletter for Engineering PIs interested in funding opportunities and news

April 12, 2017  http://teesresearch.tamu.edu/  researchnews@tees.tamu.edu

**Funding Opportunities**

[http://teesresearch.tamu.edu/funding-opportunities/](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** *Big Data Regional Innovation Hubs: Establishing Spokes to Advance Big Data Applications (BD Spokes)* – Email of Intent Due May 31, 2017; Internal Proposal Due June 5, 2017

**Borders, Trade, and Immigration (BTI) Institute – University of Houston**

*Request for Proposals for Borders, Trade, and Immigration Research ([link](http://teesresearch.tamu.edu/funding-opportunities/))* – Due May 5, 2017 - $325,000

**DOC**

*National Institute of Standards and Technology Center for Neutron Research (NCNR) Comprehensive Grant Program ([link](http://teesresearch.tamu.edu/funding-opportunities/))* – Due May 8, 2017 – NIST anticipates funding one (1) – three (3) projects for up to five (5) years in the range of approximately $1,000,000 - $3,500,000 per year.

**DOD**

*ERDC Broad Agency Announcement ([link](http://teesresearch.tamu.edu/funding-opportunities/))* – Due January 31, 2018

**NIH**

*Health Information Technology (IT) to Improve Health Care Quality and Outcomes (R21) ([link](http://teesresearch.tamu.edu/funding-opportunities/))* – Standard Due Dates: February 16, June 16, October 16 – The total costs (direct and
indirect) for a project awarded under this FOA will not exceed $200,000 in any given year or $300,000 for the entire project period.

**Research Education: Bridges to the Doctorate (R25)** (link) – Due September 25, 2017 – Application budgets are limited to $300,000 direct costs per year.

**Bridges to the Baccalaureate Program (R25)** (link) – Due September 25, 2017 – Application budgets are limited to $300,000 direct costs per year.

**Nutrition and Alcohol-Related Health Outcomes (R01)** (link) – Standard Due Dates: June 5, October 5, February 5 – Application budgets are not limited but need to reflect the actual needs of the proposed project.

**NSF**

**Limited Submission Big Data Regional Innovation Hubs: Establishing Spokes to Advance Big Data Applications (BD Spokes)** (link) – Full Due September 18, 2017 – Each SMALL project will be funded at $100,000 to $500,000 total for up to three years, subject to the availability of funds. Each MEDIUM project will be funded at $500,001 to $1,000,000 total for up to three years, subject to the availability of funds.

**CMMI Biological and Environmental Interactions of Nanoscale Materials** (link) – Full Proposal Accepted Anytime – PD 18-1179

**Dear Colleague Letter: Using JOIDES Resolution to Collect Cores with Advanced Piston Coring (APC) System** (link)

**Small Business Innovation Research Program (SBIR)** (link) – Full Due June 14, 2017

**Small Business Technology Transfer Program Phase I (STTR)** (link) – Full Due June 14, 2017

**Robert Noyce Teacher Scholarship Program** (link) – Full Due August 29, 2017 – Total Amount Available $58,000,000 annually for new Noyce awards, subject to the availability of funds.

**Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences (CDS&E-MSS)** (link) – Due November 25, 2017 - December 11, 2017 – PD 16-8069

**Transportation Research Board (TRB)/The National Academies of Sciences, Engineering, and Medicine**

**IDEA Program Announcement 2017** (link) – The Transit IDEA program has two review cycles in 2017; proposals are due May 1 and November 1, 2017. NCHRP IDEA proposals are due March 1, 2017 and September 1, 2017 depending on which of the two funding cycles is targeted. The Rail Safety IDEA program has one review cycle per year. Proposals are due September 15, 2017. - The Transit IDEA program and the Rail Safety IDEA program can consider Type 1 and Type 2 proposals for up to $100,000 in IDEA costs, not including any cost sharing. The NCHRP Highway IDEA has an upper limit of $150,000 for Type 1 projects, while Type 2 projects are limited to a maximum of $100,000 and also require significant cost sharing (at least a 50% match to the proposed NCHRP IDEA budget).

**Notice of Intent/Request for Information**

**DARPA Foundations for Generalizable Representation and Automated Extraction of Knowledge Request for Information (RFI)** (link) – Responses Due April 14, 2017

**Student Opportunities**
American Public Transportation Association (APTA) Scholarship Program (link) – Applications Due June 16, 2017 – $2,500 - $5,000

DOE Office of Science Graduate Student Research (SCGSR) Program (link) – Applications Due May 16, 2017 – Each awardee is eligible to receive the following benefits: Living Stipend and Inbound and Outbound Transportation

Proposers Days/Webinars

2017 CBET CAREER Proposal Writing Webinar
April 17, 2017
12:00 p.m. - 5:00 p.m.
Information and Registration

DARPA Ground Truth Proposers Day Webcast
April 20, 2017
12:00 p.m. - 3:00 p.m.
Information

DARPA System Security Integrated Through Hardware and Firmware (SSITH) Proposers Day
April 21, 2017
Booz Allen Hamilton Conference Center, 3811 B. Fairfax Drive, Suite 600, Arlington, VA
8:00 a.m. - 5:00 p.m. EDT
Information and Registration – Registration deadline is April 18.

TEES Regional Divisions and Hanover Webinar Series (Open to Engineering Faculty; please see registration link below)

Developing a Concept Paper & Contacting a Program Officer – In this training, investigators will learn how to construct a concise summary of the key elements of a funding request to solicit feedback and/or buy-in from prospective funders, partners, and potential stakeholders. Guided by statistical evidence suggesting a correlation between higher success rates and contact with a cognizant program officer, a Hanover Grants Consultant will then walk investigators through appropriate outreach methods and strategies. Training participants will hone proposal development skills and explore methods to increase proposal competitiveness across all types of funders.
April 28, 2017
11:00 a.m. - 1:00 p.m.
Registration

NSF CAREER Program Webinar
May 22, 2017
12:00 p.m. - 2:00 p.m.
Information and Registration
DARPA Discover DSO Day
June 15, 2017
Arlington, VA
Information – Registration will be announced at a later date via FBO.

Upcoming Events/Workshops
http://teesresearch.tamu.edu/events/

TEES Research Development

Registration Open
NSF CAREER Mock Review Panel and Workshop
May 22, 2017
8:00 a.m. - 4:00 p.m.
Rudder Tower, Room 401
Information and Registration

Other Opportunities

NSF Broader Impacts Workshop
April 12, 2017
2:00 p.m. - 3:30 p.m.
Henderson Hall, Room 103
Information and Registration

DARPA Workshop
April 14, 2017
9:00 a.m. - 11:00 a.m.
Rudder Tower, Room 601
Registration

ENG-LIFE 2017: Biomanufacturing and Synthetic Biology
April 14, 2017
8:00 a.m. - 5:00 p.m.
MSC, Room 2300 C, D & E
Information and Registration

Smart Grid Workshop – “Using Big Data in Smart Grids: The Next Steps”
April 18, 2017
8:00 a.m. - 5:00 p.m.
MSC, Rooms 2400, 2401, 2500, 2501
Information and Registration

U.S. DOE Advanced Manufacturing Office Graduate-Level Traineeship Development Workshop
April 20, 2017
8:30 a.m. MST – 12:30 p.m. MST
Sheraton Grand Phoenix, 340 North 3rd Street, Phoenix, AZ 85004
Information and Registration

Spring 2017 NIH Regional Seminar on Program Funding & Grants Administration
May 3-5, 2017
New Orleans Marriott, 555 Canal Street, New Orleans, LA
Information and Registration

Naval Surface Warfare Center, Crane Division (NSWC Crane) Advanced Planning Briefings for Industry (APBI)
May 17, 2017
8:00 a.m. - 4:00 p.m.
WestGate Academy Conferencing & Training Center, 13598 East WestGate Drive, Odon, IN
Information and Registration

TEES Annual Research Conference
May 24-25, 2017
Prairie View A&M University
Information and Registration

Science of Team Science (SciTS) 2017 Conference
June 12-14, 2017
Hyatt Regency Clearwater Beach Resort, Clearwater, FL
Information and Registration

DOE Bioeconomy 2017: Domestic Resources for a Vibrant Future
July 11-12, 2017
Sheraton Pentagon City, Arlington, VA
Information and Registration

26th USENIX Security Symposium
August 16-18, 2017
Vancouver, BC, Canada
Information

Research News

TEES Researchers Design Supersonic Transport Aircraft for NASA that Modifies Its Shape in Real Time

A team of Texas A&M Engineering Experiment Station (TEES) researchers has been selected for a potential award by NASA to lead research into commercially viable civil supersonic transport aircraft that meet noise and efficiency requirements for overland flight. Put simply,
their research is on designing an aircraft that can modify its shape in real time in order to optimize for fuel efficiency or quiet flight as the flight phase and conditions change. The team is one of five transformative system-level aviation innovations that NASA has selected as part of the NASA Aeronautics’ University Leadership Initiative (ULI.)

“We are excited that Texas A&M University and the Texas A&M Engineering Experiment Station proposal was selected to be part of this highly competitive program with NASA,” said Dr. M. Katherine Banks, vice chancellor and dean of Texas A&M Engineering and director of TEES. “We have tremendous depth and strength in supersonics at Texas A&M and look forward to advancing technology in this area of critical importance.”

Currently, aircraft are limited to flying below Mach 1 while over land because of the community noise impacts and even damage that can be caused by sonic booms. Research has shown small changes in supersonic transport outer mold lines can reduce sonic boom noise, but these changes only work in specific flight conditions. To be commercially viable, aircraft must meet sonic boom signature limits for a range of flight conditions.

To view the complete story, please visit the website.

**NSF Announces New Pilot Requiring the Use of a Spreadsheet Template for Identifying Collaborators and Other Affiliations Information**

On April 24, 2017, the National Science Foundation (NSF) will initiate a new pilot requiring the use of a spreadsheet template for identifying Collaborators and Other Affiliations information for Principal Investigators (PIs), co-PIs, and other senior project personnel identified on proposals. The NSF Proposal and Award Policies & Procedures Guide (PAPPG) (NSF 17-1) requires PIs, co-PIs, and other senior project personnel identified on NSF proposals to individually upload Collaborators and Other Affiliations information as a Single Copy Document (see PAPPG Chapter II.C.1.e).

Please be advised that the new Collaborators and Other Affiliations pilot beginning on April 24 will only be for FastLane proposal submissions. Grants.gov proposal submissions will continue to follow the instructions in NSF Grants.gov Application Guide Chapter VI.2.4.

To view the complete story, please visit the NSF website.

For system-related questions, please contact FastLane User Support at 1-800-673-6188 or fastlane@nsf.gov. Policy-related questions should be directed to policy@nsf.gov.

Prepared by TEES Research Development under the auspices of the Associate Agency Director for Strategic Initiatives and Centers. For questions, email researchnews@tees.tamu.edu.