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 their site.

LIMITED SUBMISSION Camille Dreyfus Teacher-Scholar Awards Program (link)

Keep watching this space for more limited submissions.

Tips/Lessons Learned in Submitting Proposals

Proposals Returned without Review
Recently, NSF program officers have returned proposals without review because of mistakes made in the biosketches. Some of the issues include:

- Using incorrect fonts and font sizes;
- Adding honors and awards;
- Not separating the 5 most closely related products/publications to the proposed project from up to 5 other significant products/publications; and
- Providing a data management plan over 2 pages.

Information on biosketches can be found in the NSF Grant Proposal Guide.

If you have a tip or lesson learned in submitting proposals and you would like for it to be considered for this newsletter, please email it to researchnews@tees.tamus.edu.

NIH
NIBIB Quantum Program: Technological Innovation to Solve a Major Medical or Public Health Challenge (U01) (link)
Stem Cell-Derived Blood Products for Therapeutic Use (R01) (link)
BRAIN Initiative: Optimization of Transformative Technologies for Large Scale Recording and Modulation in the Nervous System (U01) (link)
FLAG-ERA Joint Transnational (FLAG-ERA: Human Brain Project (HBP) Joint Transnational Call) (link)
Centers of Excellence on Environmental Health Disparities Research (P50) (link)

NSF
Science of Science and Innovation Policy Doctoral Dissertation Research Improvement Grants (SciSIP-DDRIG) (link)

DOE
Advancing Solutions to Improve the Energy Efficiency of U.S. Commercial Buildings (link)

DoD
Strategic Environmental Research and Development Program (SERDP) (link)
Participate in the webinar “SERDP Funding Opportunities” (link)
Integrated Photonics Institute for Manufacturing Innovation (link)
Core Solicitation (Federal and Non-Federal) – Weapons Systems and Platforms – Environmentally Sustainable Manufacturing for Energetic Formulations (link)
Core Solicitation (Federal and Non-Federal) - Weapons Systems and Platforms – Data to Improve Understanding of the Source and Mechanism of Full Scale Military Tactical Aircraft Engine Noise (link)
Core Solicitation (Federal and Non-Federal) – Environmental Restoration – Ecotoxicity of Perfluorinated Compounds (link)
Improve Understanding of the Source and Mechanism of Full Scale Military Tactical Aircraft Engine Noise (link)
Commercial Technologies for Maintenance Activities (CTMA) Managing Partner Cooperative Agreement (Maintenance and Sustainment R&D Projects) (link)
Low Resource Languages for Emergent Incidents (LORELEI) (link)

DARPA
Biological Technologies EZ BAA (link)
Biological Technologies Office (BTO) has announced a new program with a simplified process for engaging with DARPA that will make it easier for businesses to attract up to $700k in “seedling” funding to pursue capabilities at the intersection of biology and technology (link)

Engineering
Post Career Break Fellowship (Pilot) (link)
Strengthening Capacities of National Quality Infrastructure (NQI) and Conformity Assessment (CA) Services in the Republic of Serbia (link)

Industry
Silicon Mechanics: The 4th Annual Research Cluster Grant (link)
Upcoming Events
See also http://teesresearch.tamu.edu/about-2/events/ for a complete listing and links to handouts/presentations

This week:
DOD webinar “SERDP Funding Opportunities”
Thursday, November 13, 2014
12:00-1:00
Registration required

Lunch and Learn – RIG: Human Factors in Instrumentation and Controls
November 14, 2014
12:00-1:30
ZACH 301
Registration required. Lunch will be provided.

CONACYT Writer’s Workshop
November 20, 2014
1:30-3:30
Donald L. Houston Bldg. Auditorium
Registration required

Lunch and Learn – RIG: Deep Space
November 21, 2014
11:30-1:00
MEOB 501
Registration required. Lunch will be provided.

Strategic Initiatives Informational Breakfast
December 2, 2014
8:30-10:30
ETB 3002
Registration required (coming soon). Breakfast will be provided.

New Researcher Orientation
January 30, 2015
Time and place TBA
Registration required (coming soon)

CAREER
February 27, 2015
Time and place TBA
Registration required (coming soon)
Research News

Discovery of Biomarker: Detecting Disease, Cancer

Dr. Hung-Jen Wu, assistant professor of chemical engineering at Texas A&M University, connects industrial processes of membrane separation and molecular sieve technology to identify a new biomarker for iron regulator-related diseases and cancer. The biomarker is named hepcidin.

In his research alongside other colleagues, Wu captures small proteins and peptides from complex bodily fluids with well-engineered nanopores before evaluating them in a mass spectrometer for study and identification. Using a sieve, the target molecule (hepcidin) is separated from complex human bodily fluids such as blood and urine, to better detect the target in the mass spectrometer. Essential to the process is the development of the nanopore, which is a “very simple and stable fabrication by self-assembly of surfactants,” Wu said, and based heavily in chemical engineering principles.

A new research grant for the discovery of tuberculosis biomarkers was awarded in July 2014. Wu will advance his research in collaboration with Dr. Victor Ugaz, professor of chemical engineering, holder of the Charles D. Holland ’53 professorship and director of the undergraduate program, as well as Dr. Jeffrey Cirillo, professor in the Texas A&M Health Science Center and director of the Center for Airborne Pathogen Research and Tuberculosis Imaging.

To view the complete story, please visit the website.

New Research Center at Texas A&M at Qatar Seeks to be a Leader in World Energy Innovation

In a critical moment of evolution and opportunity in the gas and fuels industry, Texas A&M University has taken a major step by establishing an important new home for cutting-edge innovation, research, learning and collaboration to be centered at its Qatar campus.

Arching over two continents and several disciplines, the Qatar campus’ new Gas and Fuels Research Center (GFRC) has the potential to become the definitive depository of knowledge as well as the leading cradle of new technologies related to the production, transport and processing of natural gas worldwide.

GFRC is part of the Texas A&M Engineering Experiment Station (TEES), an engineering research agency of the State of Texas and a member of The Texas A&M University System.

The center’s main objectives are to train highly skilled engineers and technical staff and to provide both research and service to industry and governmental agencies seeking to learn about the potential and use of natural gas as a fast-rising source of cleaner energy. Qatar is the natural destination for the Center, as it is home to some of the most significant gas resources on the planet, including the largest liquefied natural gas and gas-to-liquids plants in the world, and to an
integrated supply chain of cleaner energy sources in addition to value-added chemicals and ultra-clean fuels. The GFRC will establish strong links with the research institutions and industry and governmental agencies both in Qatar and the United States.

The center will focus on several research areas immediately, including new gas exploration and production techniques, novel catalysts and materials for natural gas conversions, new processes related to hydrocarbon treatment, and new materials and mathematical models for property prediction and process design, explained Dr. Ioannis Economou, the center’s co-director.

“Growth in the shale-gas industry in the US will lead to investments exceeding $100 billion over the next decade,” said Dr. Mahmoud El-Halwagi, the center’s managing director and McFerrin Professor in the Artie McFerrin Department of Chemical Engineering at Texas A&M in College Station. “So there is great advantage to have Texas A&M University both in Qatar and College Station provide leadership, research, education, and outreach for the oil and gas industry at such a critical time.”

“The State of Texas and specifically Texas A&M University played critical roles in leading the world during the oil era,” Economou said. “And now the opportunity has arrived to take the same leading role in the shale gas era.”

To view the complete story, please visit the website.