

NEWS

ENGINEERING RESEARCH
ADMINISTRATION



AUBURN
UNIVERSITY

Samuel Ginn
College of Engineering

September 5, 2023

Vol. 1 No. 6

Announcements

First SGC OE Faculty Colloquium Tomorrow

Date: Wednesday, September 6, 2023

Time: 12:00-1:00 pm

Location: Brown-Kopel, 3rd Floor Grand Hall

Tomorrow SGC OE will hold the first faculty colloquium of the academic year. Dr. Greg Purdy will introduce the Interdisciplinary Center for Advanced Manufacturing Systems (ICAMS), and two recently hired faculty, Dr. Akond Rahman and Dr. Tanzeel Rehman, will share their research. Lunch will be provided for attendees. Other information about the colloquium, including past presentations, can be found [here](#).

Updated Misconduct Statement

As of April 2023, Auburn has updated the Research Misconduct Policy to align with federal regulations and guidance. The new policy can be found at the [OVPR's Office of Research Compliance page](#).

Lab Spotlight

Advanced Structural Engineering Laboratory



This week's spotlight is on the Advanced Structural Engineering Laboratory (ASEL), directed by Dr. Matthew Yarnold. Part of the Department of Civil and Environmental Engineering, the lab's mission is to become a national leader for characterization and performance testing of engineering materials, components, and systems. ASEL works to advance our knowledge of infrastructure resilience and renewal and also to enhance the nation's defense and space programs.

Although the lab is relatively new, they have already partnered with several state and federal agencies and with industry sponsors. ASEL has recently received six awards including a \$3.0M grant from the Air Force Civil Engineering Center. Awarded to Dr. Jim Davidson, the project "Novel Timber Structures for Air Force Expeditionary Environments" will enable ASEL to acquire "a highly unique \$1.2M high-rate universal testing machine," Yarnold says. Building on that success, the lab looks to partner with other on-campus centers and departments in pursuit of future multi-disciplinary research efforts.

In terms of the lab's research production, Dr. Yarnold says that "ASEL is starting to hit its stride." Current experiments include four simulation studies on the high-bay strong floor, a study in the geotechnical chamber, and several projects in the concrete material testing lab.

Read more about the Advanced Structural Engineering Lab and their research on their newly released website [here](#).

Funding Opportunities

Graduate Research Fellowship Program (GRFP)

Due: October 17, 2023—Computer and Information Science and Engineering & Materials Research

Due: October 19, 2023—Engineering
National Science Foundation

The GRFP recognizes and supports outstanding graduate students pursuing full-time research-based master's and doctoral degrees in STEM. This program offers three years of support over a five-year fellowship period for graduate students demonstrating their potential for significant research achievements. For each year of support, NSF will provide a \$37,000 stipend and \$16,000 cost of education allowance.

Read more [here](#).

Biosensing

Due: Full proposals accepted anytime

National Science Foundation

Areas of interest: remote sensing and monitoring, signal processing, machine learning

This program, part of the Engineering Biology and Health cluster, supports research in the monitoring, identification, and/or quantification of biological analytes and phenomena using innovations that exist at the intersection of engineering, life sciences, and information technology. Projects that advance both engineering and life sciences as well as those that address critical sensor needs in biomedical research, public health, food safety, agriculture, forensics, environmental protection and homeland security will be considered. Projects focusing on research and technologies that can help the nation prevent the spread of the next global pandemic are especially encouraged.

Read more [here](#).

Thermal Transport Processes (TTP)

Due: Full proposals accepted anytime

National Science Foundation

Areas of interest: fluid mechanics, heat & mass transport, process engineering

The TTP program is part of the Transport Phenomena cluster and supports research projects that develop new fundamental knowledge or combine existing knowledge in thermodynamics, fluid mechanics, and heat and mass transfer to incite innovation in thermal transport processes. Specific areas of interest include convection, diffusion and radiation; thermodynamics, biological heat and mass transport; nanothermics, microthermics, and mesothermics; thermal solutions to climate change; thermal science and quantum technology interface; and new metrology and AI/machine learning methodologies in thermal sciences. Projects with collaborative, interdisciplinary approaches and ones that offer applications or investigations into problems with clearly defined economic, environmental, and societal impacts are encouraged.

Read more [here](#).

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