

NEWS

ENGINEERING RESEARCH
ADMINISTRATION



AUBURN
UNIVERSITY

Samuel Ginn
College of Engineering

May 21, 2025

Vol. 3 No. 9

Announcements

Endeavor IRB Module

The IRB team is holding a training session for the Endeavor IRB module. This opportunity is for faculty members conducting research that includes human subjects to learn more about the system and how to submit protocols.

The Zoom event will be held June 2 at noon. Click [here](#) to join the Zoom meeting.

Hanover Research now has Grant Evaluation Services

Hanover Research has added a new service: in house evaluation plans. The evaluation plan for a proposal would be covered by one of the college's slots/tokens, but the cost of a full evaluation solutions will be based on the project needs. Hanover Research's evaluation solutions offer the opportunity to critically assess the outcomes, impact, and effectiveness of grant-funded initiatives. Their range of methodologies can be leveraged across the program lifecycle, from the evaluation plan creation through to program implementation and completion.

Contact [Kelley Terry](#) for more information.

Funding Opportunities

High Priority Open Topics for Additive Manufacturing

America Makes

Proposals Due July 15, 2025

\$920,000 Available

Areas of Interest: Engineering, Defense Manufacturing and Technology

America Makes and the National Center for Defense Manufacturing and Machining (NCDMM) announced a new open project call funded by the Office of the Under Secretary of Defense, Manufacturing Technology Office (OSD ManTech), worth a total of \$920K. The project call, High Priority Open Topics for

Additive Manufacturing (AM), focuses on the development and maturation of AM repairs for sustainment and beam shaping.

Areas of interest include:

- **AM Repairs for Sustainment:** This topic seeks to advance AM repair and surface engineering capabilities through the development and demonstration of qualified techniques, materials, and the technologies applicable to critical components across defense and industrial sectors.
- **Beam Shaping:** This topic focuses on developing consistent, certifiable printing processes that support future material qualification and standards development for high-performance applications.

Read more about this funding opportunity [here](#).

Ecosystem for Leading Innovation in Plasma Science and Engineering

National Science Foundation (NSF)

Proposals Due August 12, 2025

Areas of Interest: Engineering, Plasma Electronics, Plasma Fusion, Plasma Physics, Space Sciences

The ECosystem for Leading Innovation in Plasma Science and Engineering supports translational research and workforce development at the interface of fundamental plasma science and technological innovation. The goal of this program is to identify and capitalize on opportunities for bringing fundamental plasma science investigations to bear on problems of societal and technological need within the scope of science and engineering supported by the participating NSF programs.

Areas of interest include:

- Plasma surface interactions with applications
- Atmospheric pressure plasmas and microplasmas with applications
- Dusty plasmas with applications
- Novel sensor development for highly non-equilibrium plasmas with applications
- Novel computational modeling for multi-component and/or multi-phase plasma systems with applications
- Novel studies of plasmons in nano-photonics and nano-optics with applications
- New chemical measurement science for characterizing processes occurring in plasmas and using plasmas as part of measurement systems with applications
- Study of fundamental chemical reactions and mechanisms in plasmas with applications

Read more about this funding opportunity [here](#).

Advanced Manufacturing (AM)

National Science Foundation (NSF)

Proposals Accepted Anytime

Areas of Interest: Manufacturing Engineering, Mechanical Engineering, Industrial Engineering

The NSF Advanced Manufacturing (AM) program supports fundamental manufacturing research that addresses issues related to national prosperity and security and has the potential to contribute to the revitalization of American manufacturing. The AM program accelerates advances in manufacturing technologies with emphasis on multidisciplinary research that fundamentally alters and transforms manufacturing capabilities, methods and practices.

Advanced manufacturing research proposals should address issues related to national prosperity and security and advanced knowledge to sustain global leadership. Areas of research might include manufacturing systems, materials processing, manufacturing machines, methodologies, and

manufacturing across the length scales. Researchers working in the areas of cybermanufacturing systems, manufacturing machines and equipment, materials engineering and processing, and nanomanufacturing are encouraged to transcend and cross domain boundaries.

Read more about this funding opportunity [here](#).

Summer Spotlight on Centers

Summer Centers Programs and Events

ICAMS has a summer cohort of 14 students earning their Mechatronics Certification and a place in the ICAMS Internship Program

The Auburn University Interdisciplinary Center for Advanced Manufacturing Systems (ICAMS) Center is partnering with Southern Union State Community College (SUSCC) to offer a scholarship to earn a certificate in mechatronics and to work part time at ICAMS for the following academic year.

The certificate is a 10 week/4 course summer program consisting of courses in precision machining, programmable logic controllers, robotics, and pneumatics/hydraulics. The certificate program prepares the students to work at ICAM. This cohort potentially represents 14 future manufacturing professionals, and it is a good sign of growth for the program and reflects that manufacturing is an important stable of the American workforce.

This program has grown since its establishment and now has its largest cohort yet, with 14 students participating.

NCAT will be hosting the TRB 7th APT Conference with tours at ASEL in July.

The Transportation Research Board (TRB) is hosting its 7th International Conference on Accelerated Pavement Testing (APT) July 20-23, 2025, at the Auburn University and Dixon Conference Center. This interactive conference promotes idea sharing, research, and showcases noteworthy practices and solutions.

Participants will participate in a forum that will discuss the various benefits of APT from an international perspective as well as gain insight into needs and upcoming trends for future developments in accelerated pavement testing, and contribute to mapping the future of engineering and managing APT. Presentations will cover project specific investigations including asphalt binder performance, interlayer systems, hot- and warm-mix asphalt concrete surfacing, cement stabilization, and airfield pavements.

Additional sessions will also cover topics including

- Establishing and reviewing facilities
- Cost-benefit
- Implementation of APT findings into practices
- Instrumentation
- Calibration of mechanistic-empirical performance models
- Linking APT and long-term pavement performance (LTPP)

Read more about this opportunity [here](#).

WREC and the NSF Broadening Participation in Computing Program are funding a Summer Workshop for undergrad students by Dr. Shiwen Mao, from July 1 to July 3.

This Summer Workshop is for undergraduate students from a minority background, or a female undergraduate student interested in machine learning and AI. The event will be held July 1-3 in Auburn University's Brown Hall.

During the 3-day workshop students will:

- Attend inspiring talks from experts in machine learning
- Get hands-on experience with a deep learning project
- Learn how to use machine learning for real-world applications
- Network with faculty, researchers, and peers
- Receive a \$400 stipend

Dr. Shiwen Mao recruited 10 minority/female students from Auburn University, Tuskegee University, Georgia State University, and Kennesaw State University. The workshop program will have speakers from Auburn University, Temple University, and Florida International University, and a hands-on project on using AI for wireless sensing.

[Manage](#) your preferences | [Opt Out](#) using TrueRemove™

Got this as a forward? [Sign up](#) to receive our future emails.

View this email [online](#).

1301 Shelby Center | Auburn , AL 36849 US

This email was sent to .

To continue receiving our emails, add us to your address book.

emma®

[Subscribe](#) to our email list.