



A Tennessee Flagship Carnegie R1 Research Institution

# RESEARCH + INNOVATION

## NEWSLETTER



UofM Symposium Finds Fertile Ground in Ag Economy

The new Institute for Agricultural and Conservation Research and Education (ACRE) plants seeds of innovation and collaboration.

[Read Full Story](#)



## School of Public Health Convenes International Diplomacy Summit

A total of 15 countries represented at first-of-its-kind collaborative workshop on public health diplomacy with experts from around the globe.

[Read Full Story](#)



## AI GPU Cluster in the FedEx Institute of Technology

UofM unveils the state-of-the-art GPU Cluster funded by NSF to boost AI research in Delta Region.

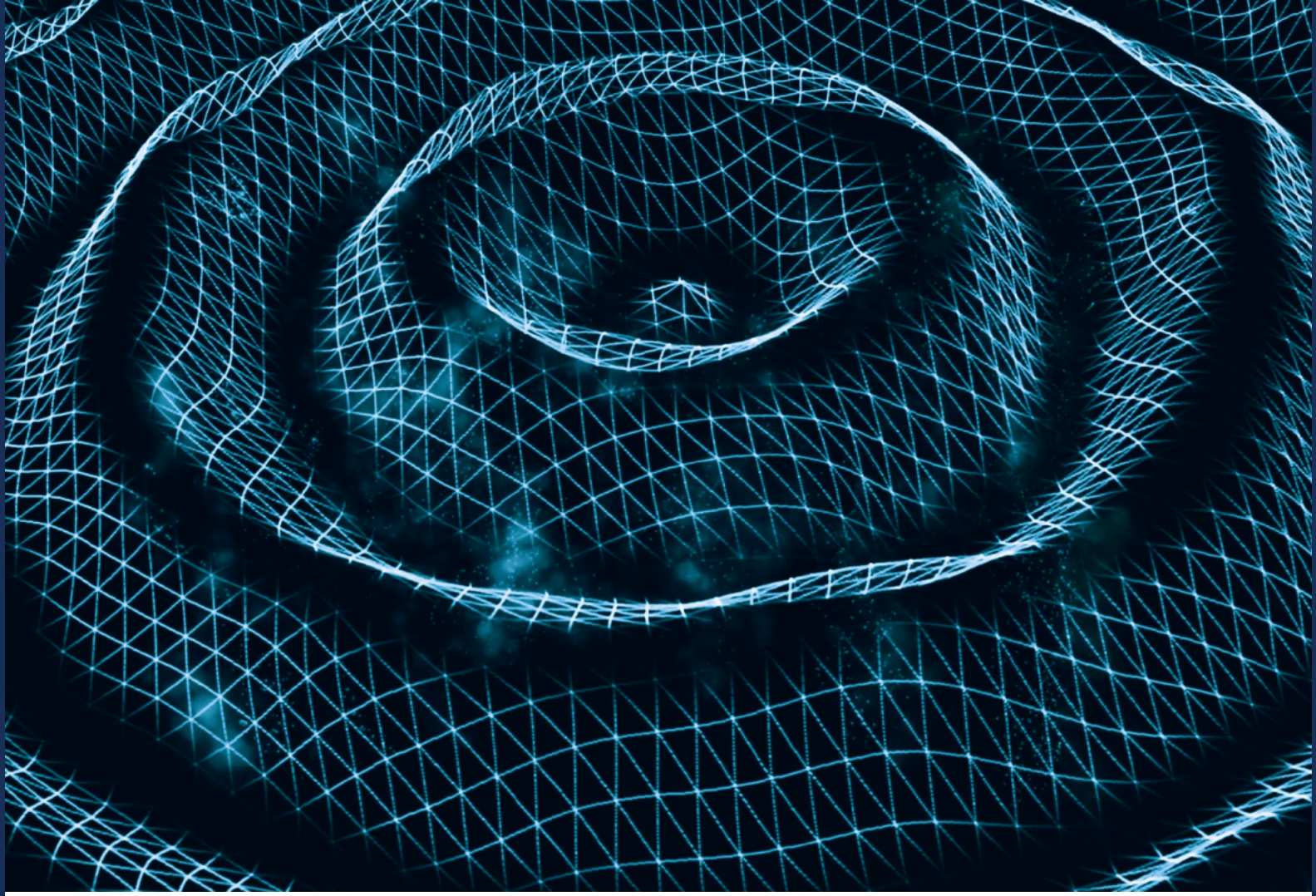
[Read Full Story](#)



## ERIC Officially Opens at the University of Memphis

The research hub will drive innovation and collaboration and host various STEM centers and labs.

[Read Full Story](#)



## Horizontal and Vertical Site Amplification and CEUS Crustal Attenuation Models

Assessing how seismic energy behaves as it moves through the Earth's crust and interacts with different types of ground material.

[Read Full Story](#)



## Arts & Health Research Team (AhRT) Announces a Call for Proposals

UofM Institute for Arts and Health is sending a call for proposals around the theme, “Building Interdisciplinary Research Studios.”

[Read Full Story](#)



## AI and Cybersecurity Education Innovation

Workshop for IT professionals and those interested in critical infrastructure cybersecurity.

[Read Full Story](#)

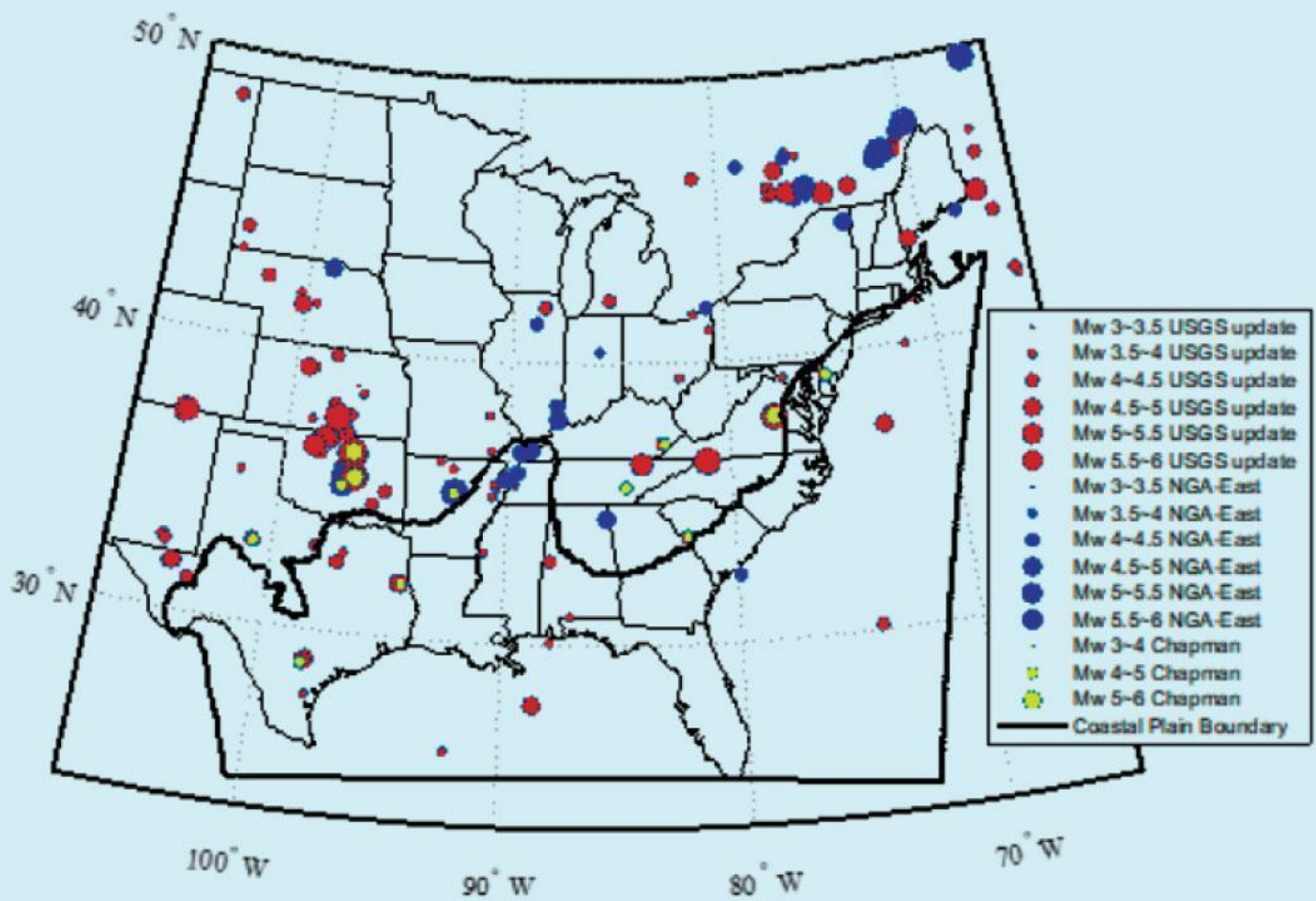


## NIH Funds Ground Breaking Medical Device

UofM professors awarded prestigious NIH grant for innovative wearable health monitoring device.

[Read Full Story](#)





## Enhancing Seismic Hazard Maps for the Coastal Plain

Adjusting CEUS ground motion models for use in coastal plain considering sediment thickness.

[Read Full Story](#)



## How Do Faults React to Rapid Stress Changes?

A study of induced earthquakes in geo-reservoirs and implications for aftershock triggering.

[Read Full Story](#)



## AHRQ, DOE, NIH and NSF Funding Opportunities

Recently published federal agencies' funding opportunities outlining upcoming grants.

[See Full List](#)



## Calendar of Events: October 2024

Learn more about research, UMRF Research Park and FedEx Institute of Technology events.

[See Full List](#)

## Research Awards September 2024

**Dr. Eddie Jacobs** awarded \$9,203,213 from the Office of Naval Research.

**Dr. Janey Camp** awarded \$871,696 from the U.S. Department of Defense.

**Dr. M. David Rudd** awarded \$513,967 from the U.S. Department of Defense.

**Dr. Rebecca Adams** awarded \$503,580 from U.S. Department of Education.

**Dr. Sarah Leat** awarded \$336,116 from Health Resources and Services Administration.

**Dr. Lan Wang** awarded \$267,761 from National Science Foundation.

**Dr. Daniel Nascimento** awarded \$260,938 from National Science Foundation.

**Dr. Sabya Mishra** awarded \$249,000 from Federal Highway Administration.

**Dr. Mary Tucker** awarded \$225,000 from Tennessee Department of Safety.

**Dr. Naomi Eichorn** awarded \$180,720 from the National Institutes of Health.

**Dr. Santosh Kumar** awarded \$144,998 from National Institutes of Health.

**Dr. Bonny Banerjee** awarded \$140,000 from U.S. Department of Defense.

**Dr. Timothy Brewster** awarded \$125,000 from the American Chemical Society.

**Dr. Mitchell Withers** awarded \$118,665 from U.S. Geological Survey.

**Dr. Debra Bartelli** awarded \$111,391 from Elevance Health Foundation.

**Dr. Benjamin Keller** awarded \$100,401 from National Aeronautics and Space Admin.

**Dr. Thomas Goebel** awarded \$82,927 from the National Science Foundation.

**Dr. Todd Zoblotsky** awarded \$77,000 from Tennessee Higher Education Initiative.

**Dr. Thouraya Al-Nasser** awarded \$ 60,000 from Paris Special School District.

**Dr. James Murphy** awarded \$51,974 from the National Institutes of Health.

**Dr. Debra Burns** awarded \$50,000 from the National Institutes of Health.

**Dr. Xichen Mou** awarded \$45,806 from First 8 Memphis LLC.

**Dr. Stephanie Ivey** awarded \$44,581 from Battelle.

**Dr. Krystal Laryea** awarded \$35,500 from University of Notre Dame.

**Dr. Debra Bartelli** awarded \$31,205 from Shelby County Government.

**Dr. Susan Neely-Barnes** awarded \$20,000 from Health Resources and Services Administration.

**Dr. Emily Srisarajivakul** awarded \$8,150 from the Society for the Study of School Psychology.

**Dr. Joah Williams** awarded \$7,000 from Jackson County, Missouri.

**Dr. Emily Puckett** awarded \$5,740 from the U.S. Fish & Wildlife Service.

**Dr. Xichen Mou** awarded \$5,000 from SciPinion, LLC.

*\* Data reported the 18 of each month. Awards finalized after the 18 will be reported the following month.*

*[Full project and award details available here.](#)*

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## Upcoming Events & Announcements



## **901 AI Meetup** "Emerging Trends in AI"

AI today dominates the tech headlines but there is a lot they are not telling you. In this discussion, we will cover the lesser-advertised areas of AI and how they will impact you and the world.

**Speaker:** Cory Hymel, VP of Research & Innovation at Crowdbotics

**Tuesday, Oct. 8 | 4 PM (CST)**  
**FedEx Institute of Technology | Methodist Presentation Theatre (103)**

[REGISTER](#)

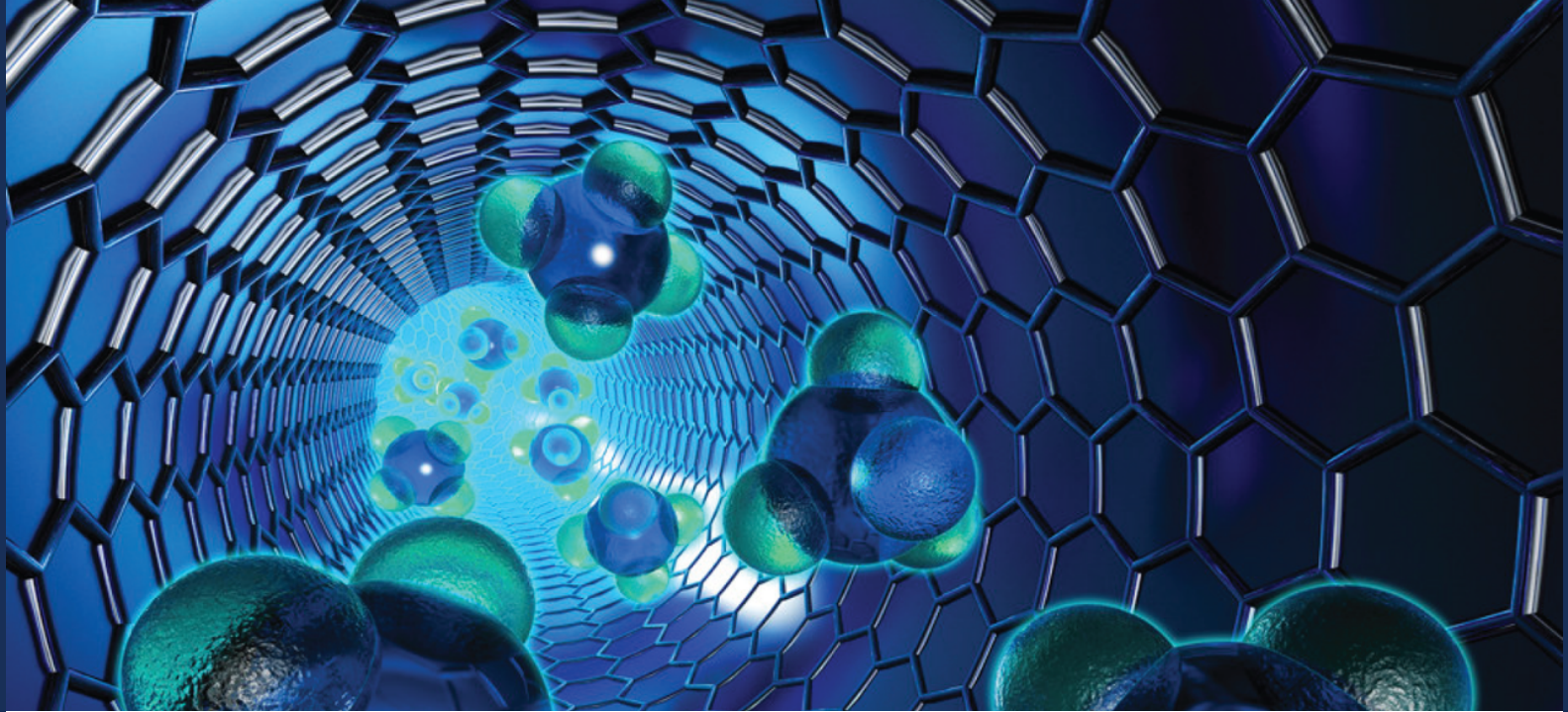


## **NSF Senior Personnel Workshop**

The Division of Research & Innovation is hosting a workshop being led by Dr. Brian Evans regarding recently implemented changes to senior personnel documents required for NSF proposal submissions. This workshop will cover the new requirement to produce all biographical sketches and current and pending support forms through SciENCv as well as the synergistic activities document that is now separate from the biographical sketch. Although unchanged, collaborators and other affiliation forms will also be briefly covered.

**Thursday, Oct. 10 | 1-2 PM**  
**TEAMS MEETING**

[TEAMS LINK](#)



## **INDIUM**

### Materials Day 2024

Join us at the 4th annual Materials Day to explore the materials that impact your world, hosted by The Institute for Nanomaterials Development and Innovation at the University of Memphis (INDIUM) and sponsored by the FedEx Institute of Technology.

Everything around us — clothes, computers, vehicles, materials that improve our health — is made of material stuff. Materials Science and Engineering (MSE) combines engineering, physics, chemistry and biology principles to solve real-world problems associated with nanotechnology, biotechnology, information technology, energy, manufacturing and other major engineering disciplines.

Materials scientists and engineers improve our daily lives by developing materials for health and medicine, improving energy efficiency and developing advanced manufacturing, among other areas.

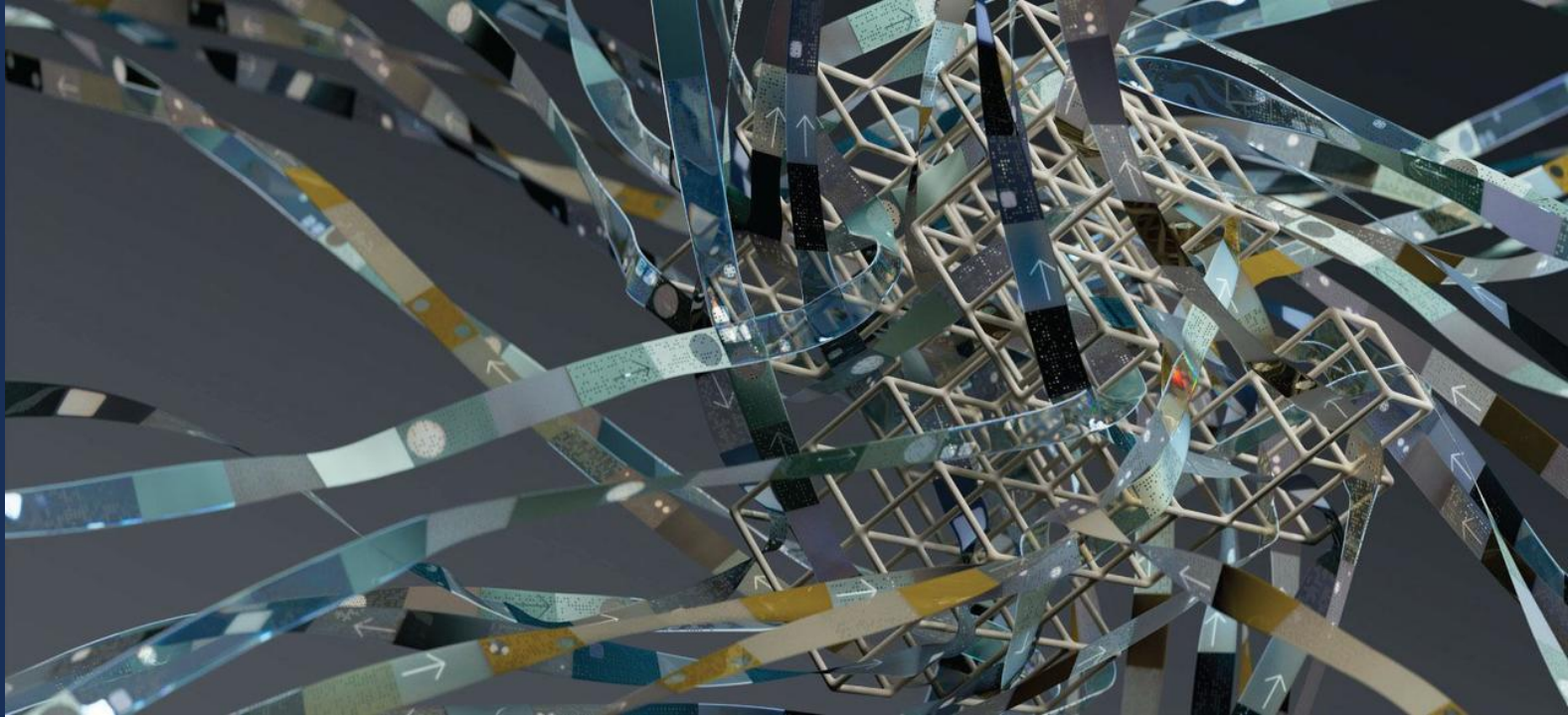
**Deadline to Register:** Oct. 7

**Friday, Oct. 18 | 8 AM (CST)**

**FedEx Institute of Technology | Methodist Presentation Theatre (103)**

[REGISTER](#)





## Tech Training

### "Introduction to Large Language Models Workshop"

Generative Artificial Intelligence (Gen-AI) and particularly large language models (LLMs) have taken the world by storm. Gen-AI's potential across many domains seems to be transformative and its true potential in various domains is yet to be fully understood, explored and realized.

The Introduction to Large Language Models (LLMs) workshop is a two-day intensive LLM training program designed to provide attendees with a solid introduction to LLMs concepts and hands-on training on using LLMs through prompting and other strategies.

**Details:**

Two-day Workshop for Professionals (light breakfast, coffee and lunch will be offered)

Pricing: \$1600

**Oct. 24-25 | 8:30 AM-5 PM (CST)**  
**FedEx Institute of Technology | Room 225**

[REGISTER](#)

# HACK MEMPHIS

## FALL 2024 CITY HACKATHON



### Hack Memphis

#### Fall 2024 City Hackathon

Do you have ideas for improving the city? Is there a particular issue you'd like to learn about or solve? Join us at the City Hackathon at the University of Memphis [FedEx Institute of Technology](#), as 100 volunteers with technical and creative skills team up over 36 hours to develop and present innovative solutions to three civic challenges for the City of Memphis: 1) reducing blight in neighborhoods, 2) improving transportation for job access and 3) using new AI and Smart City technology.

#### Details:

- Opening remarks with Mayor Paul Young
- Skill Building Workshops
- Capstone Presentations & Awards
- Networking & Collaboration with Top Memphis Talent

**Pricing:** Participants will be asked to pay a \$10 registration fee. However, participants will get their \$10 back in cash when they check into the event on Nov. 15. This is to ensure we get a good headcount for food and supplies. We will provide meals, workshops, space for teams to work and social activities throughout the weekend for free.

**Nov. 15-17 | 6-10 PM & 8:30 AM-5 PM (CST)**

**FedEx Institute of Technology | The Zone, Lobby, Fishbowl, Room 225**

REGISTER



## Research Compliance

### Security and Export Control

#### Research Security

Research security has emerged as a top priority for U.S. institutions receiving sponsored project funds from federal sponsors.

National Security Presidential Memorandum 33 (NSPM-33) on National Security Strategy for United States Government-Supported Research and Development was released in January 2021 with the goal of securing federally funded research and protecting U.S. innovation. NSPM-33 directs funding agencies to require research institutions receiving more than \$50 million per year in federal funding to certify that they have established and operate a Research Security Program as a condition of funding. This program, at a minimum, will include four main areas of focus: research security training, cybersecurity, foreign travel security and export control training.

As a result, the University of Memphis will be requiring any faculty members involved in federally funded research to complete research security training and a foreign talent recruitment plan certification. This mandatory training is necessary in order to satisfy new federal requirements that are intended to safeguard the academic research enterprise against the misappropriation of U.S. research and development. Such training is currently available free in our CITI Training Program.

#### Export Control

U.S. export control laws regulate the research instruments, materials, software and technology that we, as an American institution, are permitted to export (transfer) outside the nation by any means, as well as the sensitive items and technology that we are permitted to share with foreign nationals studying, conducting research, working in or visiting our facilities. These individuals may not be U.S. citizens, holders of a Green Card, or fall under any other federally protected category. These laws also dictate which research partners and companies we work with; for example, we are not allowed to work with U.S. government entities that are restricted or forbidden (i.e., entities that raise issues related to national security, export control or embargoed countries).

Export regulations may have an effect on University operations both domestically and overseas, such as:

- \* International travel, fieldwork and conferences
- \* International Financial Transactions
- \* Hosting a foreign visitor/scholar
- \* Foreign national participation in research activities
- \* International collaboration
- \* Teaching courses abroad or online

To meet the requirements of NSPM-33 as it relates to international travel security, ITS and the Office of Research Compliance will now have a loaner laptop program in place for all researchers traveling overseas to certain high risks countries. See link below for more information:

[Export Control - Division of Research & Innovation - The University of Memphis](#)

For more information, contact Research Compliance at [researchcompliance@memphis.edu](mailto:researchcompliance@memphis.edu).



## **Communities of Research Scholars**

### Call for Proposals

The University of Memphis' Division of Research & Innovation is pleased to announce the 2024-25 Communities of Research Scholars (CoRS) Program call for proposals.

Established in the fall of 2018, CoRS was created to cultivate interdisciplinary discourse and nurture the growth of collaborative research across the UofM. Each community is comprised of faculty representing multiple disciplines, academic units, perspectives and research approaches with a shared interest in exploring a common research theme/topic.

The 2024-25 CoRS will continue to cultivate interdisciplinary discourse and nurture research growth. Divisional staff will also help successful faculty identify opportunities for external support for their work. Successful applications will include:

- An interdisciplinary team of faculty
- A short budget narrative
- A thematic area of inquiry that your group would like to explore
- Potential external funding opportunities

Previously funded CoRS, as well as new applicants, are eligible.

### **Funding Description:**

The program will fund awards at \$2,500 (for first-time awardees) and \$5,000 (for second-time awardees). Groups applying for a second award should present evidence of having applied for external funding as the result of the initial CoRS funding. Projects should be completed by August 31, 2025.

### **Proposal Content:**

- Title Page
- Project Name
- Name of convener (lead PI) and research team members (including titles and clearly defined roles and responsibilities)
- Project Description

### **CoRS Networking & Team Building:**

Join us Thursday, Sept. 19, from 2-4 p.m. at the FedEx Institute of Technology Lobby and Methodist Presentation Theatre (103) to bring together prior funded CoRS teams and prospective members to network, share ideas and form teams for this year's cohort. For prospective or returning CoRS members who cannot attend the CoRS Networking & Team Building Event, there will be a CoRS Lunch on Wednesday, Sept. 18, from 11 a.m.-12:30 p.m., where prior CoRS awardees will serve on a panel to share their experiences in the program.

### **Reporting Requirements:**

Winning projects will be required to submit mid-implementation and final reports. The mid-implementation report should reflect budget updates or anything programmatic the timeline and milestones in the initial proposal. The final report should summarize the entire project and discuss potential submission of applications for external funding.

**Deadline for Submission:** Friday, Oct. 18.

All applications must be submitted through the InfoReady platform.

For questions about the submission process, email [researchdev@memphis.edu](mailto:researchdev@memphis.edu).

INFOREADY

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