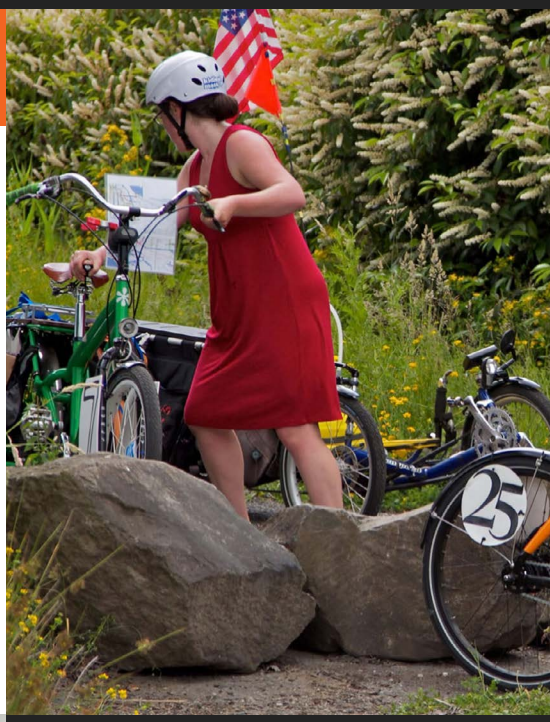


OSU COLLABORATION SHAPING FUTURE OF AMERICA'S WARFIGHTERS

Industrial engineering and management and mechanical and aerospace researchers collaborate with the U.S. Army and industry partners to study soldiers' cognitive workload to improve the design of weapons systems. Through the Soldier Touchpoint Research Center near Fort Sill, teams use simulations, physiological sensors and machine learning to measure stress and decision-making in combat scenarios.

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APRIL 2026 CEAT HIGHLIGHTS



STATE, FEDERAL AND EDUCATION LEADERS CONVENE TO ZONE IN ON FUTURE OF STEM EDUCATION IN OKLAHOMA

The Oklahoma STEM Pipeline Partnership panel took place alongside the 68th annual Oklahoma State Engineering and Science Fair. The panel featured leaders from many sectors in Oklahoma, as they convened to discuss the need to prepare the next generation of STEM students in our state. With Oklahoma facing an engineer shortage, the students who will make up the state's future workforce must be exposed early to available opportunities.

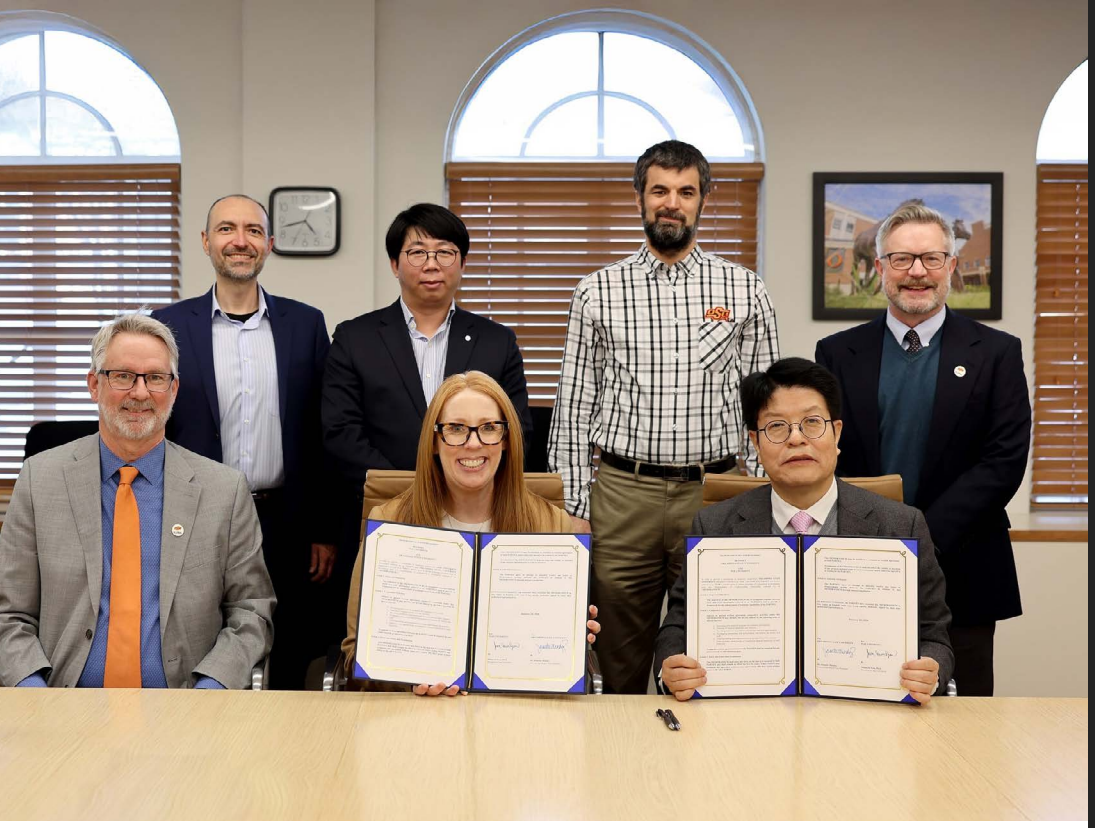
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FCEM RESEARCHERS PUBLISH PAPER ON MICROMOBILITY DISASTER ASSISTANCE

Researchers in the Fire and Emergency Management program published a study on how micromobility, or the use of bicycles and small electric vehicles, can aid an area following a natural disaster

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RESEARCH AIDS FUTURE DEVELOPMENT OF BIO-INSPIRED UNDERWATER VEHICLES

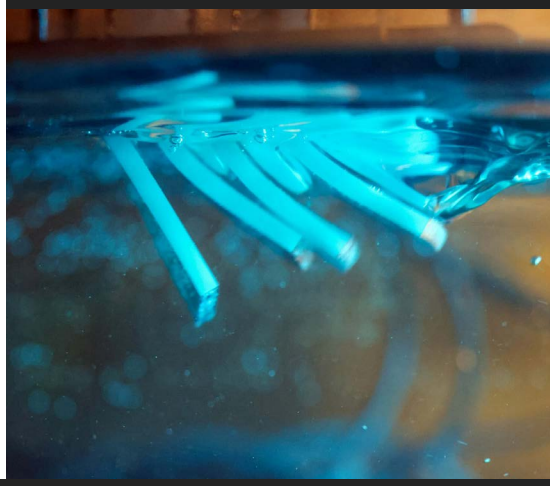
The viability of metachronal swimming for unmanned underwater vehicles is being studied by mechanical and aerospace engineering associate professor Dr. Arvind Santhanakrishnan. This type of swimming is used by aquatic creatures such as shrimp and krill to improve bio-inspired underwater vehicle design.

READ MORE

OSU AND INJE UNIVERSITY ESTABLISH ACADEMIC PARTNERSHIP

OSU and Inje University in South Korea signed a memorandum of understanding to expand academic collaboration in engineering education and research. The partnership will support joint research, faculty and student exchanges, including collaborations with Formula SAE and Baja SAE competition teams.

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OSU RESEARCH USES BRAIN SIGNALS TO IMPROVE ROBOT DECISION-MAKING

School of Mechanical and Aerospace Engineering researchers are developing robots that respond directly to human brain signals to improve safety and decision-making in high-risk environments. Led by Dr. Hemanth Manjunatha, an MAE assistant professor, the project uses brain-computer interfaces to detect error-related brain signals when humans recognize mistakes.

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MOBILE INTEGRATED HEALTH CARE INITIATIVE TO EXPAND TO 30 COUNTIES IN OKLAHOMA OVER THE NEXT FIVE YEARS

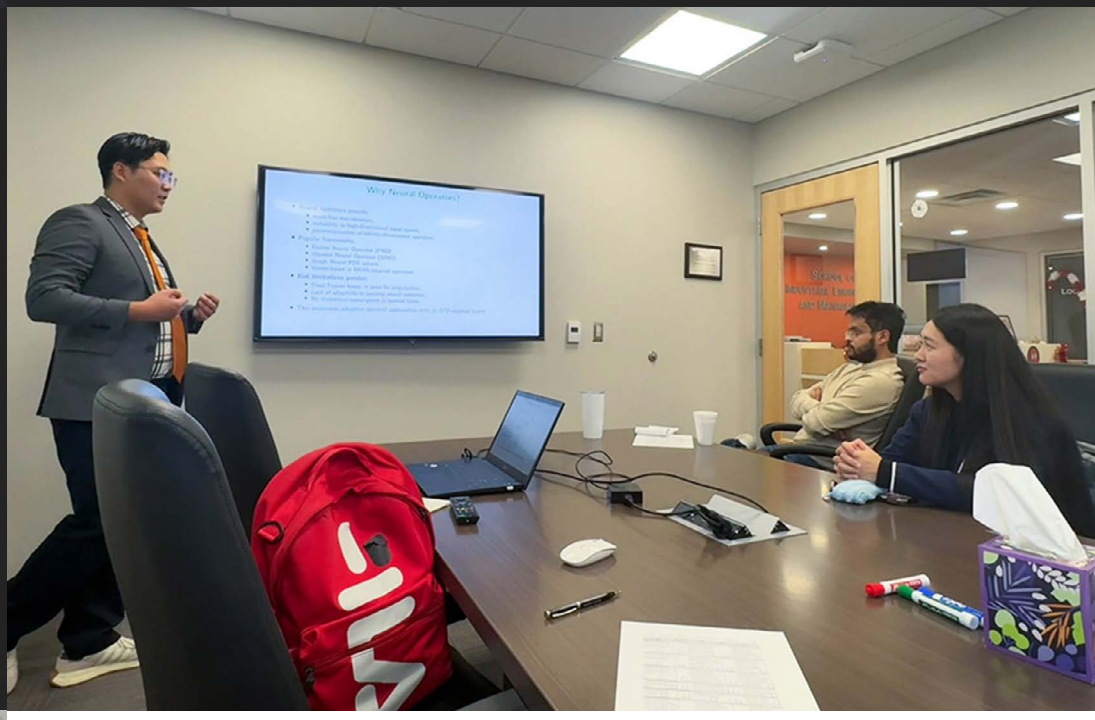
OSU is expanding its mobile integrated health care initiative to bring in-home medical services to rural communities across 30 Oklahoma counties over the next five years. Supported by more than $10 million in funding, the program trains paramedics to provide care for chronic conditions, reducing travel barriers. The collaboration between Fire Service Training and the Center for Health Sciences aims to improve access, lower emergency room reliance and strengthen rural health outcomes across the state

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CIVE RESEARCH AIMS TO TRANSFORM HOW CITIES CAN MANAGE SEWER DATA

Dr. Yongwei Shan and Ph.D. student Ife Awotunde developed an artificial intelligence system that simplifies how cities access complex sewer infrastructure data.

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CHE RESEARCHERS EARN FIRST PUBLICATION FOR OK IN TOP AI CONFERENCE

Chemical engineering researchers earned Oklahoma's first publication accepted to the prestigious International Conference on Learning Representations, a leading global AI conference. Ph.D. student Zeyuan Song and assistant professor Zheyu Jiang developed a new machine-learning framework that efficiently models complex systems governed by partial differential equations.

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SOLIMAN RECEIVES THE 2026 PRESIDENT'S FELLOW FACULTY RESEARCH AWARD

Dr. Mohamed Soliman of the School of Civil and Environmental Engineering received the 2026 President's Faculty Research Award for advancing safer and more automated steel construction methods. His project developed a robotic system and scaled testbed to study automated steel assembly and multi-robot coordination aimed at reducing construction hazards

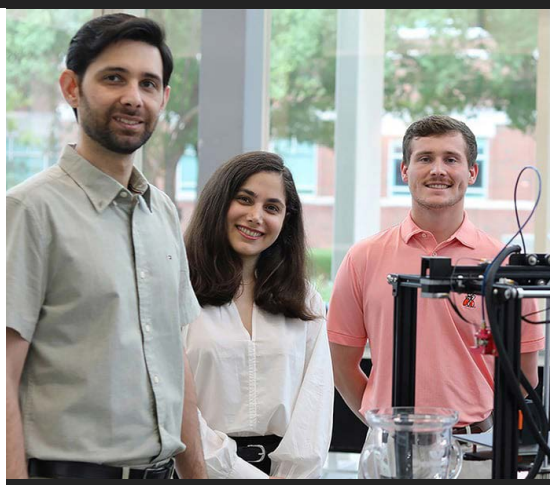
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DR. JAMEY JACOB FEATURED IN WALL STREET JOURNAL STORY ABOUT DRONES

Dr. Jamey Jacob, executive director of the Oklahoma Aerospace Institute for Research and Education, was featured in a Wall Street Journal video highlighting emerging drone technology designed to fill critical gaps in weather forecasting, especially in regions like Tornado Alley

WATCH HERE





SCIVINCE TEAM ADVANCES TO PRINCETON TIGERLAUNCH INTERNATIONAL FINALS

SCIVINCE, a student startup that developed multi-directional 3D-printing technology, won the Princeton TigerLaunch Houston Regional Business Plan competition, advancing to the international finals at Princeton University. Selected from more than 500 global applicants, the team is now among seven finalists competing for $60,000.

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MAE PROFESSOR PUBLISHES NEW EDITIONS OF HIS TEXTBOOKS

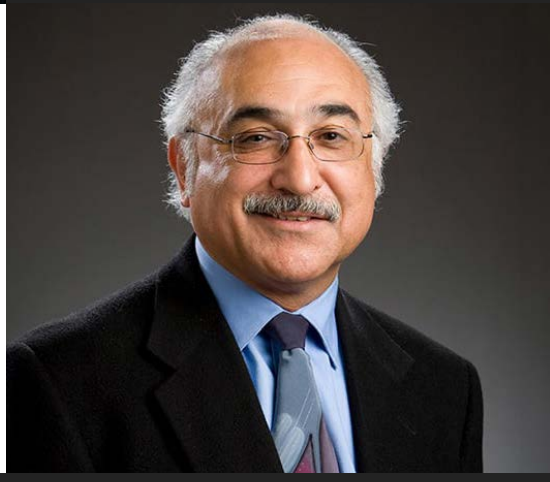
Mechanical and aerospace engineering professor Dr. Afshin J. Ghajar published new editions of two widely used engineering textbooks: Heat and Mass Transfer – Fundamentals and Applications and Fundamentals of Thermal-Fluid Sciences. The books present core thermal and fluid science principles in an accessible, practical format for engineering students

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RESEARCH, LEADERSHIP PROPEL PETE PH.D. STUDENT TO NATIONAL HONOR FOR FRACTURE RESEARCH

Petroleum engineering Ph.D. student Vishesh Bhadariya received the Society of Petroleum Engineers Hydraulic Fracturing Technical Section Outstanding Graduate Student Award at the 2026 Hydraulic Fracturing Technology Conference and Exhibition.

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TRIANGLE FRATERNITY SET TO RETURN TO OSU CAMPUS AFTER 30-YEAR HIATUS

Triangle Fraternity will return to campus after a three-decade absence and begin accepting new members for fall 2026. The STEM-oriented fraternity blends Greek life with professional development for students studying science, technology, engineering and math.

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VAIDYANATHAN HONORED AS A DISTINGUISHED ALUMNUS BY INDIAN INSTITUTE OF TECHNOLOGY

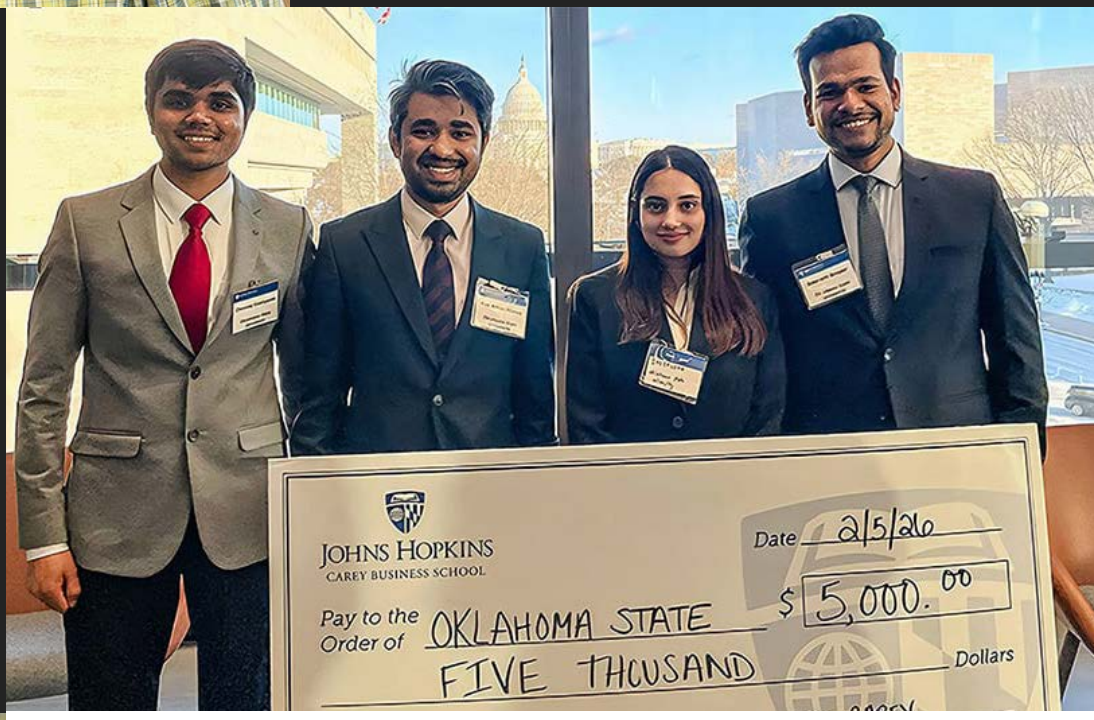
Dr. Ranji Vaidyanathan, Varnadow Chair Professor at OSU-Tulsa, was named a Distinguished Alumnus of the Indian Institute of Technology. His career achievements include driving innovation, mentoring future professionals and strengthening partnerships.

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DR. AKASH DEEP NAMED A 30 UNDER 30 HONOREE BY SME

Dr. Akash Deep, an assistant professor in IEM, was named one of the Society of Manufacturing Engineers' 2025 "30 Under 30" for advancing smart manufacturing through artificial intelligence and data-driven systems.

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OSU GRADUATE STUDENT TEAM WINS NATIONAL DATA4GOOD ANALYTICS COMPETITION

Graduate student Kazi Arman Ahmed and his team won first place at the national Data4Good Analytics Competition hosted by Johns Hopkins Carey School of Business, outperforming teams from Georgia Tech, Purdue and Washington.

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DR. SUNDERESH HERAGU DISCUSSES TARIFFS AND THEIR IMPACT ON AMERICAN FARMERS

Sunderesh Heragu, Regents Professor and Donald and Cathey Humphreys Chair in industrial engineering and management, recently addressed ongoing developments affecting agricultural trade and its impact on the broader farm economy.

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PHOTO ESSAY: WHAT DOING WHAT'S RIGHT MEANS FOR OSU STUDENTS

The Cowboy Code means many things to students, highlighted by this photo essay. From supporting classmates to staying true to personal values, OSU students live the Cowboy Code both on campus and beyond

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OSU IEM ALUMNUS KENT POWERS BUILDS A LEGACY OF SERVICE

Kent Powers, an industrial engineering and management alumnus, built a successful career in the oil and gas industry, emphasizing leadership, teamwork and service. After retiring, he dedicated much of his time to volunteerism, including with Habitat for Humanity and other community housing initiatives.

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CHECK OUT OUR UPCOMING SPEAKERS

CEAT SEMINAR SERIES

APRIL

APRIL 7 (ARCH 170)

TIM PAGE-BOTTORFF

Senior Director for Health, Safety, Security, Environment and Quality for Jones Lang LaSalle IP, Inc.

Stop. Collaborate. Listen.

APRIL 14 (TULSA HELMERICH RESEARCH CENTER)

JAMEY JACOB

OSU MAE Professor

The Universe Wants You Dead

APRIL 14 (EN 450)

ALEXANDER DOWLING

Associate Professor of Energy and the Environment at the University of Notre Dame

Optimizing Experiments: From Data-Driven to Intrusive Model-Based Methods

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