

CEAT LAUNCHES INNOVATION AWARD TO TURN STUDENT IDEAS INTO STARTUPS

The next great startup might not originate in Silicon Valley, but at OSU. CEAT is elevating innovative thinking, problem-solving prowess, collaboration, recruitment and competitive spirit into its strategic footprint. Students will soon have the capability to turn classroom ideas into commercial success through the inaugural Dean's Innovation Award for Promising Business Startups.

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AUGUST 2026 CEAT HIGHLIGHTS



OSU SELECTED FOR DEPARTMENT OF ENERGY'S GENESIS MISSION INITIATIVE

The U.S. Department of Energy has selected CEAT as one of the first projects funded under the Genesis Mission Request for Applications. Drs. Hamid Pouya, assistant professor in the School of Electrical and Computer Engineering, and Ardeshir Moftakhari, assistant professor in the School of Mechanical and Aerospace Engineering, were selected for the project "GRID OPS AI: Scaling Grid Operations with Distributionally Robust, Physics-Informed, Safe AI."

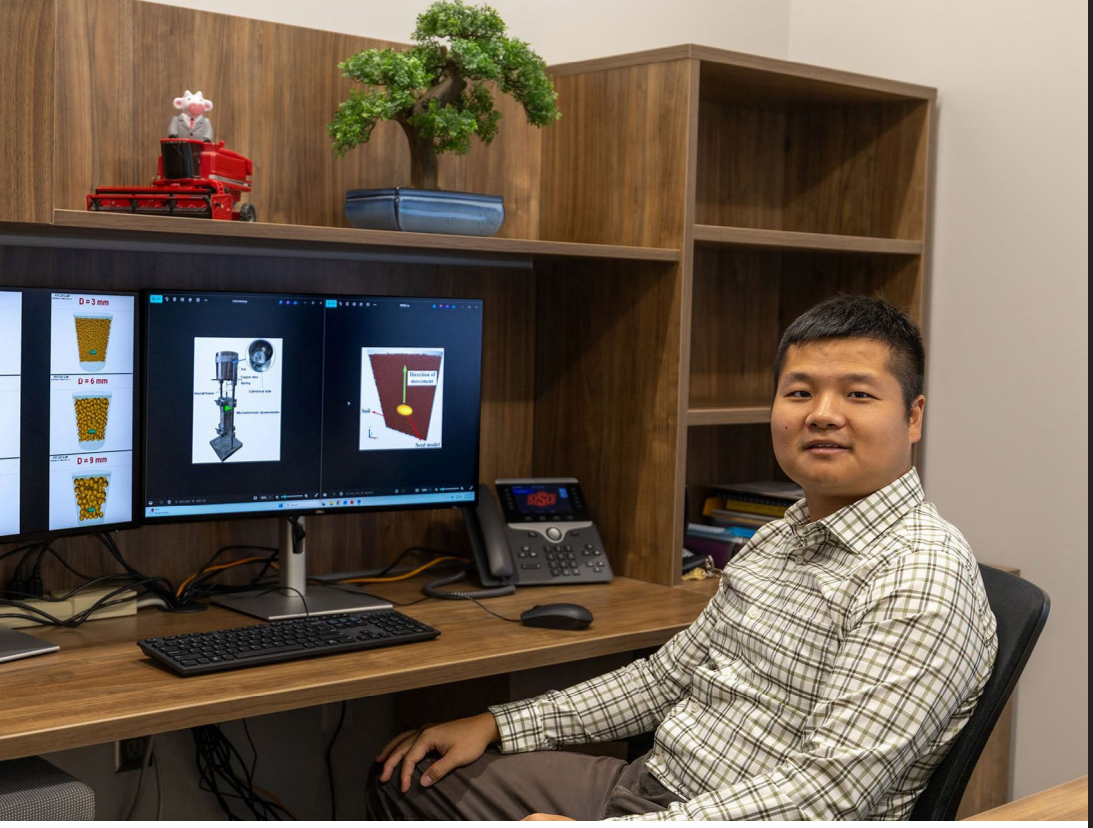
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ELBING FEATURED IN THE GORDON AND BETTY MOORE FOUNDATION AS PART OF THEIR "BEYOND THE LAB" SERIES

In this edition of Beyond the Lab, Elbing, a professor in the School of Mechanical and Aerospace Engineering, discusses his journey as a researcher and shares some of his goals for the future. His research focuses on the identification of fluid mechanisms in complex high-Reynolds-number flows with an emphasis on flow control, flow-induced acoustics and atmospheric turbulence.

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LEE EARNS MID-CONTINENT REGIONAL SERVICE AWARD FROM SPE

Dr. Hunjoo Lee, assistant professor in the School of Chemical Engineering, has been involved with the Society of Professional Engineers since he was a graduate student, taking part in technical events and interacting with industry experts, and has since developed a passion for professional mentorship. This passion has led to his being named the recipient of the Mid-Continent Regional Service Award from SPE

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OSU RESEARCH REVEALS THE JOURNEY OF SOYBEAN SEEDLINGS THROUGH SOIL

A study from the Department of Biosystems and Agricultural Engineering combines X-ray imaging, force measurement and computer modeling to uncover how seedlings overcome soil resistance. Every successful soybean crop begins with a seedling's struggle to reach sunlight. While growers often focus on weather, soil moisture and planting depth, this new study is shining light on a largely invisible process: how a seedling physically navigates its way through soil during emergence.

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CEAT RESEARCHERS UNVEIL HIDDEN MECHANICS BEHIND OIL-WATER EMULSIONS

They may be invisible to the naked eye, but their effects are seen every day across the oil and gas industry. Millions of microscopic oil droplets are present in produced water after it is extracted from oil, making separation more difficult and expensive. This process is caused by an emulsion, in which two liquids are mixed, with tiny droplets of each dispersed throughout the other. An interdisciplinary CEAT research team is uncovering new knowledge of these droplets that will help in oil recovery and water treatment efforts.

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MCALEAVY NAMED USA COUNTRY COORDINATOR FOR INTERNATIONAL CONSORTIUM FOR SOCIETAL RESILIENCE

Fire service training, emergency management and public safety policy have been shaped by CEAT, with impacts reaching communities across around the world. From preparing firefighters to respond more safely and effectively to helping emergency managers strengthen disaster planning and community resilience, CEAT's research and expertise have influenced policies and practices that protect both responders and the public

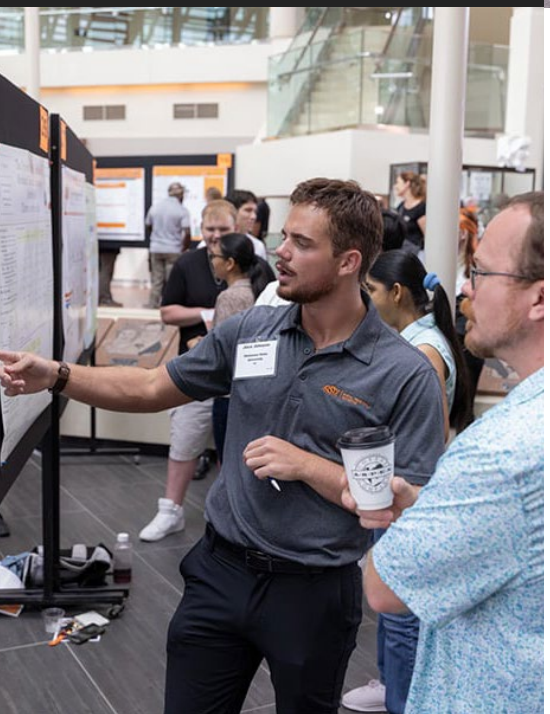
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UNDERGRADUATE RESEARCH EXPO ENABLES STUDENTS TO PRESENT VARIETY OF DISCIPLINES

From helping upgrade the world's largest particle detector to exploring the culture of Black rodeo athletes, OSU undergraduate students demonstrated the breadth of research taking place across campus during the 2026 Undergraduate Summer Research Expo. The annual event brought together 88 students from various disciplines

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INNOVATION YOU CAN SEE. ENGINEERING YOU CAN EXPLORE

Thanks to the generosity of Zeeco, the Zink Center for Competitive Innovation now features two detailed 3D models showcasing advanced combustion technologies used around the world. The ZEECO FREE JET® Gen 2 Burner and the VCM Thermal Oxidizer highlight the engineering behind cleaner, more efficient industrial combustion and emissions control systems. Displayed in the Zink Center Gallery, these models give students, alumni and visitors a closer look at the innovative technologies powering the energy and manufacturing industries. We are grateful to Zeeco and the Zink Family Foundation for their continued investment in hands-on learning, innovation and the future of engineering.



DEW AND THE CEAT K-12 STEM TEAM WERE THE RECIPIENTS OF THE ACF OF OKLAHOMA'S 2025 COMMUNITY PARTNER OF THE YEAR AWARD

The Alpha Community Foundation of Oklahoma's 2025 Community Partner of the Year Award celebrates individuals and organizations demonstrating exceptional commitment to serving and empowering the community, addressing local needs and challenges.

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ALUMNI HIGHLIGHT - ANDY WELCH

When Andy Welch looks back on his time as a CEAT student, one learning experience sticks out among the rest. An experience that reshaped how he approaches problem-solving to this day.

A mechanical engineering graduate of 1985, Welch built a career spanning more than 40 years in military and commercial aerospace.

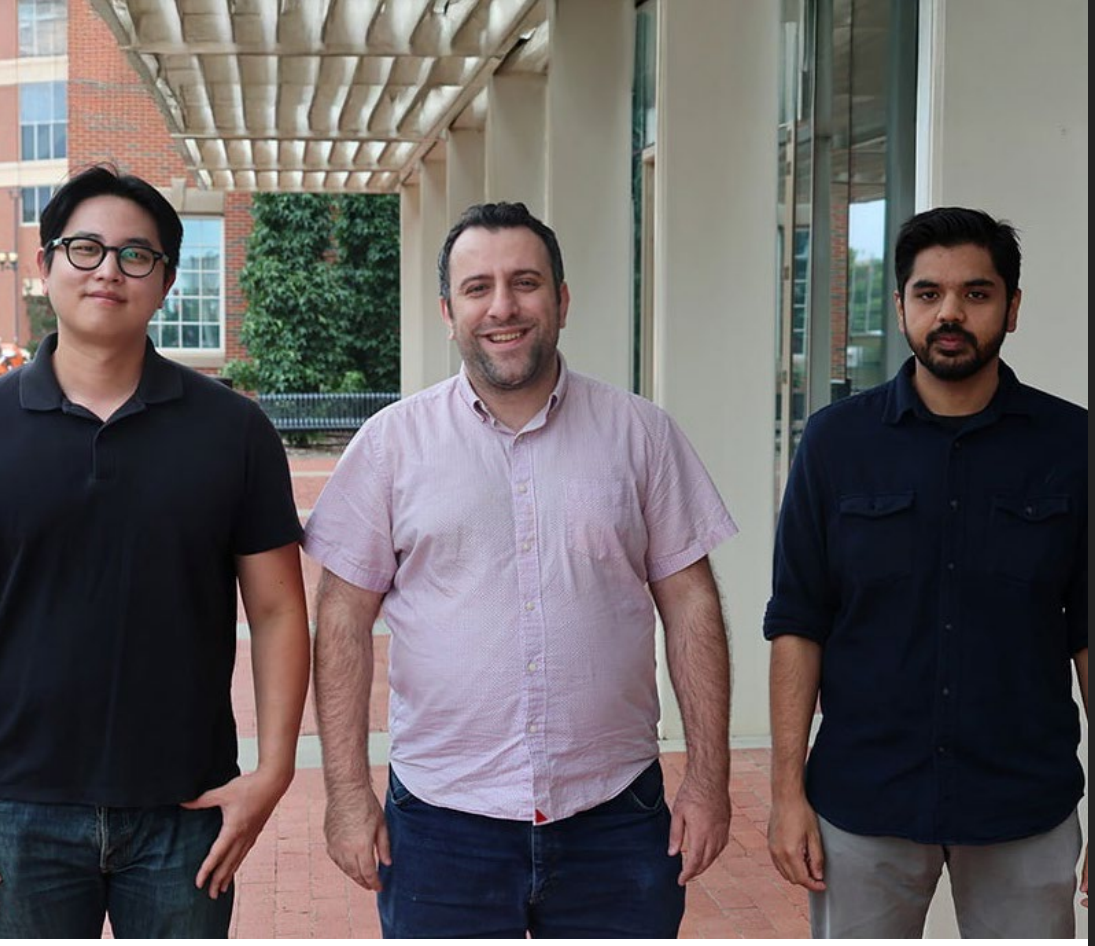
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ELBING FEATURED ON KOCO NEWS

Dr. Brian Elbing, professor in mechanical and aerospace engineering, was featured on KOCO News highlighting what CEAT researchers can learn from tornadoes just from their sound

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ASHRAE GRANT-IN-AID HELPS MAE STUDENTS FURTHER THEIR RESEARCH CAPABILITIES

Dr. Ardeshir Moftakhari, assistant professor in mechanical and aerospace engineering, had two students on his research team earn Grant-in-Aid Awards, which provide $10,000 for a student's personal use

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ALUMNI HIGHLIGHT - PATRICK WYERS

Patrick Wyers once joked that he might be the only college graduate to have dropped out of the first grade.

After briefly ending his education due to not liking a teacher in Stigler, Oklahoma, he excelled academically, eventually earning a mechanical engineering degree from CEAT.

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