OU ENGINEER

Gallogly College of Engineering

The UNIVERSITY of OKLAHOMA

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In the November issue of OU ENGINEER, learn how engineers at the University of Oklahoma are accelerating the energy transition.

Partnership Moves DOE-funded Project Forward

Through a Department of Energy-funded project, University of Oklahoma engineers have developed a low-cost, field installable retrofit kit to reduce emissions and enhance the performance of integral reciprocating compressors used in the production, gathering, transmission and processing of natural gas. As part of the development effort, OU will partner with Elipsa, a leader in no-code industrial artificial intelligence.

“The partnership with Elipsa has resulted in a low-cost retro-fit kit specifically designed to reduce emissions from integral reciprocating compressors, a critical machine in the field of natural gas,” said Pejman Kazempoor, an assistant professor in the OU School of Aerospace and Mechanical Engineering. Learn more.

OU Engineer Transforms Residential Home into Unique Research Laboratory

Li Song, a professor in the OU School of Aerospace and Mechanical Engineering, initiated the development of a self-learning home thermal model. However, to move her research forward she needed a laboratory.

Song found the ideal location just a block off the OU campus. A 1,400-square-foot bungalow named the BEEL Lab – Building Energy Efficiency Laboratory is made possible by grants from the Oklahoma Center for Advancement of Science and Technology, and OG&E that is under contract with the Department of Energy. Learn more.

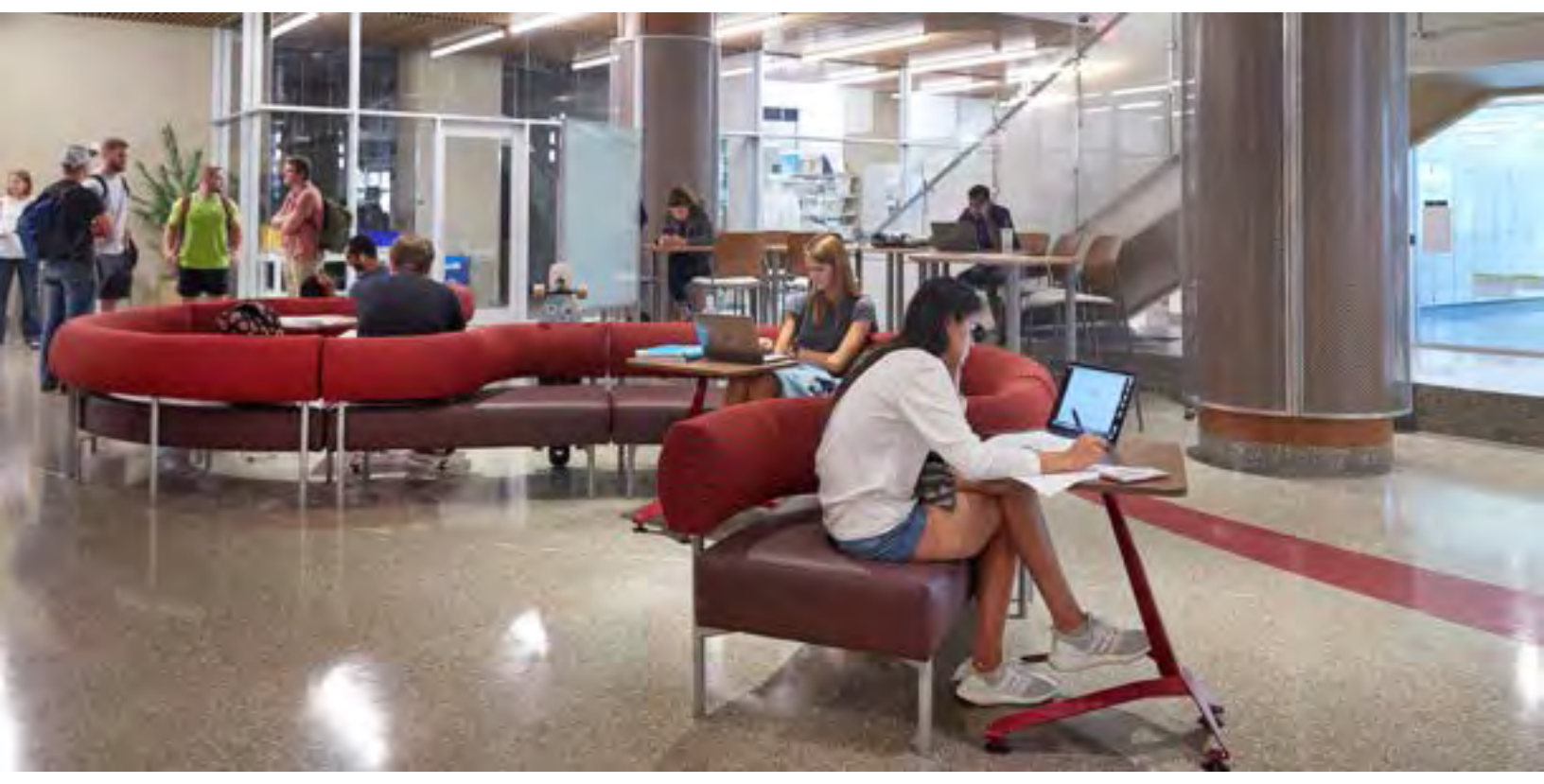
Engineers of the Future: OU Students Garner Honors

Three OU engineering students have taken top honors in the first Hydrogen Business Case Prize Competition supported by the Hydrogen and Fuel Cell Technologies Office in the Department of Energy. The OU team – Hydrogen for South-Central Region of the U.S. or H24SCR for short – placed fourth in phase two of the national contest receiving a $20,000 cash award.

Three students in the OU School of Electrical and Computer Engineering received cash prizes from the Oklahoma Aerospace and Defense Innovation Institute Student Poster Competition. The winning research posters were selected by a panel of judges during the inaugural OU defense symposium.

Earlier this month, undergraduates Adriana Landry and Shivam Patel, both in the OU School of Chemical, Biological and Materials Engineering, received first and second place, respectively, at the 2022 Undergraduate Student Poster Competition during the AIChE Annual Meeting in Phoenix.

Rachel Bennett, a Ph.D. student in the OU School of Industrial and Systems Engineering, received a student poster award at the inaugural Oklahoma Conference for Statistics, Biostatistics and Data Science.



The Stephenson School of Biomedical Engineering is in Gallogly Hall, which opened in 2019 as the newest building in the engineering quad on the OU campus.

Stephenson School of Biomedical Engineering Receives $3.5M Gift from OU Alum Michael Turner

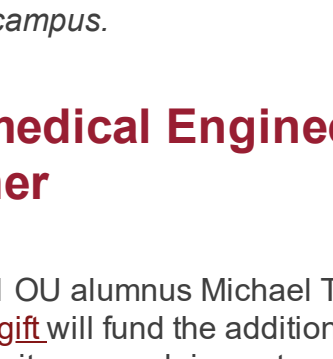
OU has received a $3.5 million gift from 1961 OU alumnus Michael Turner to support the Stephenson School of Biomedical Engineering. Turner’s generous gift will fund the addition of cutting-edge equipment, positioning the school to recruit talented faculty and enhance its research impact.

“Michael Turner was an early supporter of biomedical engineering at OU who has seen the evolution of the Stephenson School from its beginnings to the success story we are today,” said Michael Detamore, the school's director. “His latest contributions truly empower our current world-class faculty and future faculty hires to elevate pioneering research toward improving technology for patient care in Oklahoma and around the world.” Learn more about giving.

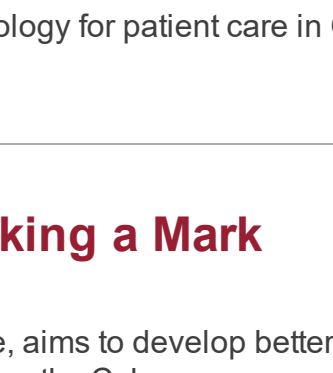
OU Engineering Faculty Making a Mark

Song Fang, OU School of Computer Science, aims to develop better ways to locate hidden wireless devices. The project is funded by a Secure and Trustworthy Cyberspace grant from the National Science Foundation Division of Computer and Network Systems. Check out recent media coverage here.

Farrokh Mistree, OU School of Aerospace and Mechanical Engineering, has received an ICONNN Award from the International Conference series on Research into Design (ICoRD’23) organizing committee.



Qinggong Tang, Stephenson School of Biomedical Engineering, is the OU lead for a four-year study, funded by a $2.5 million National Institutes of Health R01 grant from the National Institute of Diabetes and Digestive and Kidney Diseases.



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