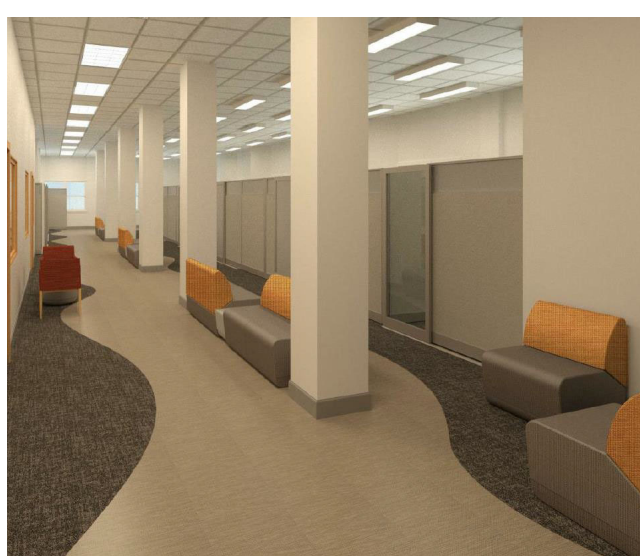


## Rethinking & Reimagining Engineering Education

At the Gallogly College of Engineering, we have started a journey toward transforming engineering education. In this issue, learn how we provide support to engineering students and pursue new ways to meet the need for an increased engineering workforce.

### Engineering Pathways Program Launches

Starting this fall, the Gallogly College of Engineering has launched an innovative new program to help address Oklahoma's growing need for more engineers. Plans for the facility are twofold. The McCasland Foundation Engineering Pathways Hub provides a new area for faculty collaboration and student support. The Engineering Pathways Studio will serve as an active learning, team-based instructional facility for all first-year engineering students. [Learn more.](#)



### College Selects Inaugural Engineering Pathways Faculty



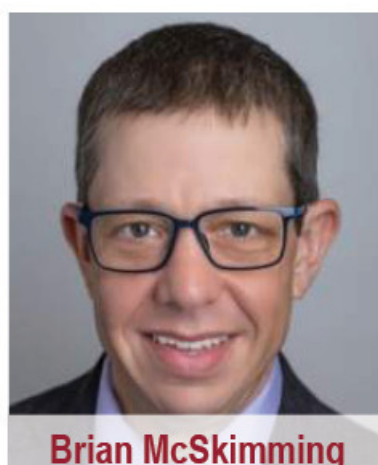
Tierney Harvey



Casey Haskins



Javeed Kittur



Brian McSkimming



Jude Okolie



Dominique Pittenger



Allison Quiroga



Kim Wolfinbarger

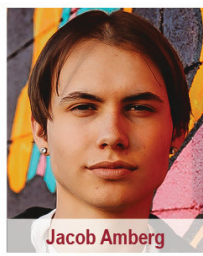
The inaugural class of EP faculty were selected for their expertise in engineering education and in technical areas of engineering research. They will teach cross-disciplinary engineering curriculum and support the newly launched Engineering Catalyst Program. [Learn more.](#)

### Building the Ultimate Engineering Program

The Engineering Pathways Program plays a critical role in meeting the Gallogly College of Engineering's strategic goal to grow enrollment and degree completion. The college's approach is multi-faceted and is based on evidence-based practices and research in engineering education, says Randa Shehab, senior associate dean. "We realize that to grow participation in engineering among college-going students we have to develop excitement and motivation about engineering, as well as create programs that support them during their academic experience," Shehab said. [Learn about each initiative.](#)

### Computer Science Scholars Give Back to Tribal Nations

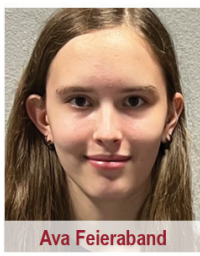
OU announced nine recipients of the Computer Science Indigenous Community of Learners United to Develop, Excel and Succeed (CS INCLUDES) scholarship, a program to help at least 24 full-time students with demonstrated financial need major in computer science at OU. The initiative is funded by a nearly \$1.5 million grant from the [Division of Undergraduate Education](#) at the National Science Foundation. "These scholars will have the opportunity to develop computer science expertise along with the skills they will need to leverage that expertise to help meet technology workforce needs of Tribal Nations," said Deborah Trytten, a computer science professor who is leading the project. [Learn more.](#)



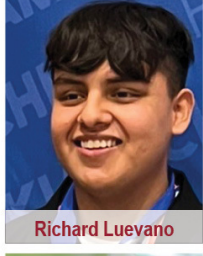
Jacob Amberg



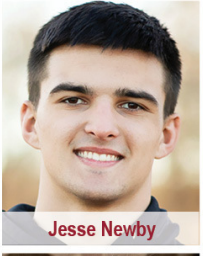
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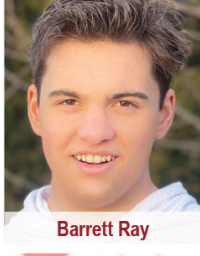
Ava Feierabend



Richard Luevano



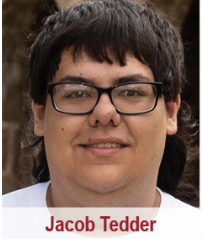
Jesse Newby



Barrett Ray



Shiloh Sells



Jacob Tedder



Keith Thompson

### Noteworthy

- Sarah Breen, an assistant professor in the Stephenson School of Biomedical Engineering, was part of a team who published "Empowering Black Scientists in STEM: Early Success of the Black Biomechanists Association" in Biomedical Engineering Education.
- David Ebert, a professor in the Schools of Computer Science and Electrical and Computer Engineering, was awarded a \$1 million grant from the National Science Foundation as part of its [Predictive Intelligence for Pandemic Prevention initiative](#).
- Michael Galizia, an assistant professor in the School of Chemical, Biological and Materials Engineering, has proposed a standard methodology to estimate the uncertainty associated to sorption/adsorption measurements in polymers and porous materials. The work was published in Industrial and Engineering Chemistry Research, an American Chemical Society Publication.

- K.K. Muraleetharan, a professor in the School of Civil Engineering and Environmental Science, and his team had "Influence of Lateral Movements of Approach Embankments on Bridges: A Case Study" selected and placed into the Editor's Choice Collection by the Journal of Performance of Constructed Facilities page in the American Society of Civil Engineers Library.
- The OU International Water Technologies for Emerging Regions (WaTER) Conference will be held virtually Sept. 26-27, 2022. [Register here.](#)



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