

FACILITIES, EQUIPMENT & OTHER RESOURCES

OTHER RESOURCES

IHAWKe. KU's Engineering **IHAWKe Diversity & Women's Program** is one of the oldest in the country and is home to the IHAWKe and KUEST programs. IHAWKe addresses the needs of historically underrepresented students, including Indigenous, Hispanic, Black, Asian, women, first generation, queer and trans, Military-Affiliated, and students with disabilities. IHAWKe provides academic support & need based scholarships, help students connect with student organizations within the School of Engineering, and offer inclusion programs to enrich academics and friendship.



The IHAWKe Diversity and Women's programs have received national recognition and bronze status from the American Society of Engineering Education's Diversity Recognition Program. IHAWKe serves as an umbrella organization for the identity-based student groups in the School of Engineering, including active chapters of American Indian Science and Engineering Society (AISES), National Society of Black Engineers (NSBE), Out in Science, Technology, Engineering and Mathematics (OSTEM), Society of Asian Scientists and Engineers (SASE), Society of Hispanic Professional Engineers (SHPE), Society of Women Engineers (SWE), and Women in Computing (WiC). IHAWKe hosts community-building, mentorship, and professional development related programming throughout the academic year. IHAWKe students also have access to the **IHAWKe Nest**, a 1,600 square foot space, with a lounge area, games, peer mentoring tables, a conference tables, and food support. The Nest is serves as a designated space for students to connect with other students, study, and relax. IHAWKe student groups often host their executive board and regular meetings in the Nest.

KUEST. KUEST stands for Kansas University Engineering, Science and Technology, and is a multi-level outreach program designed to provide underserved students from middle and high school, as well as incoming first year engineering students before their first fall semester, with an introduction and pathway into engineering.

Through **KUEST Middle**, middle school students engage in engineering day camps on KU's Campus. Activities are designed for younger students and maximize interactive learning and fun while exposing students to all the wonders that engineers explore and create in their career. Through **KUEST 9-12** high school groups engage in half-day tours of the KU Engineering facilities, IHAWKe student panels, and engaging activities. Together these programs expose hundreds of under-represented students to engineering each year.

The **KUEST Bridge** program is a four-week residential on-campus engineering program that helps establish a stronger foundation of pre-calculus for incoming freshman who may not have had a pre-calculus or calculus class in high school. Founded on three pillars: math acumen, mentorship and acclimation, and cohort-building, this program is designed to help students transition from high school to the academic rigors of engineering. The goals of the program are for Bridge students to start their fall semester knowing their way around campus, having established friendships in engineering, and having the tools and resources they need to succeed in their courses. Participating students earn a \$500 stipend by working in the laboratory of a KU Engineering professor. This is meant to offset wages that could have been earned through a summer job. Students benefit from the opportunity to gain engineering, research and laboratory experience, while being mentored by engineering faculty and graduate students. During the Bridge program, students hear from engineers, ranging from practitioners, government employees and KU Engineering faculty. These engineers span diverse disciplines and positions in engineering. They share what they

do as engineers, and the roles of other engineers in their companies. This gives students exposure to engineering careers, an opportunity to grow their professional networks, and gain confidence talking with industry professionals. The KUEST Bridge program is also completely free for students; all fees, room and board, and overall program costs are covered by the School of Engineering, donors, and corporate partners. Upon completion of the program, Bridge students are awarded a \$1,000 scholarship.

The **KUEST ONE** program, where ONE stands for Outstanding New Engineer, is a one-week residential on-campus engineering program providing acclimation and project-based learning. Students work on teams engaging in a week-long engineering design competition. ONE students also learn about engineering careers through the Introduction to Engineering Careers lecture series, and benefit from mentorship and professional development sessions throughout the week. The KUEST ONE program is completely free for students; all fees, room and board, and overall program costs are covered by the School of Engineering, donors, and corporate partners. Upon completion of the program, ONE students are awarded a \$1,000 scholarship.

KUEST Pathways is the newest KUEST program and is established through a partnership with the Kansas City Kansas Public Schools (KCKPS) Career and Technical Education (CTE) Program in their Engineering Pathways. KCKPS has a high school enrollment of 5,560 students, out of which 90% are from under-represented minority backgrounds. High school students in the engineering pathway courses engage in a client-connected project with the KU School of Engineering. KU Engineering faculty and their research serve as the client; the faculty work with CTE to design semester-long projects appropriate for the high school students. KUEST Pathways provides real, cutting edge engineering experience to high school students, pairs high school students with faculty and college student mentors, familiarizes high school students with the KU Engineering facilities, and produces tangible and useful outcomes for the research project.