

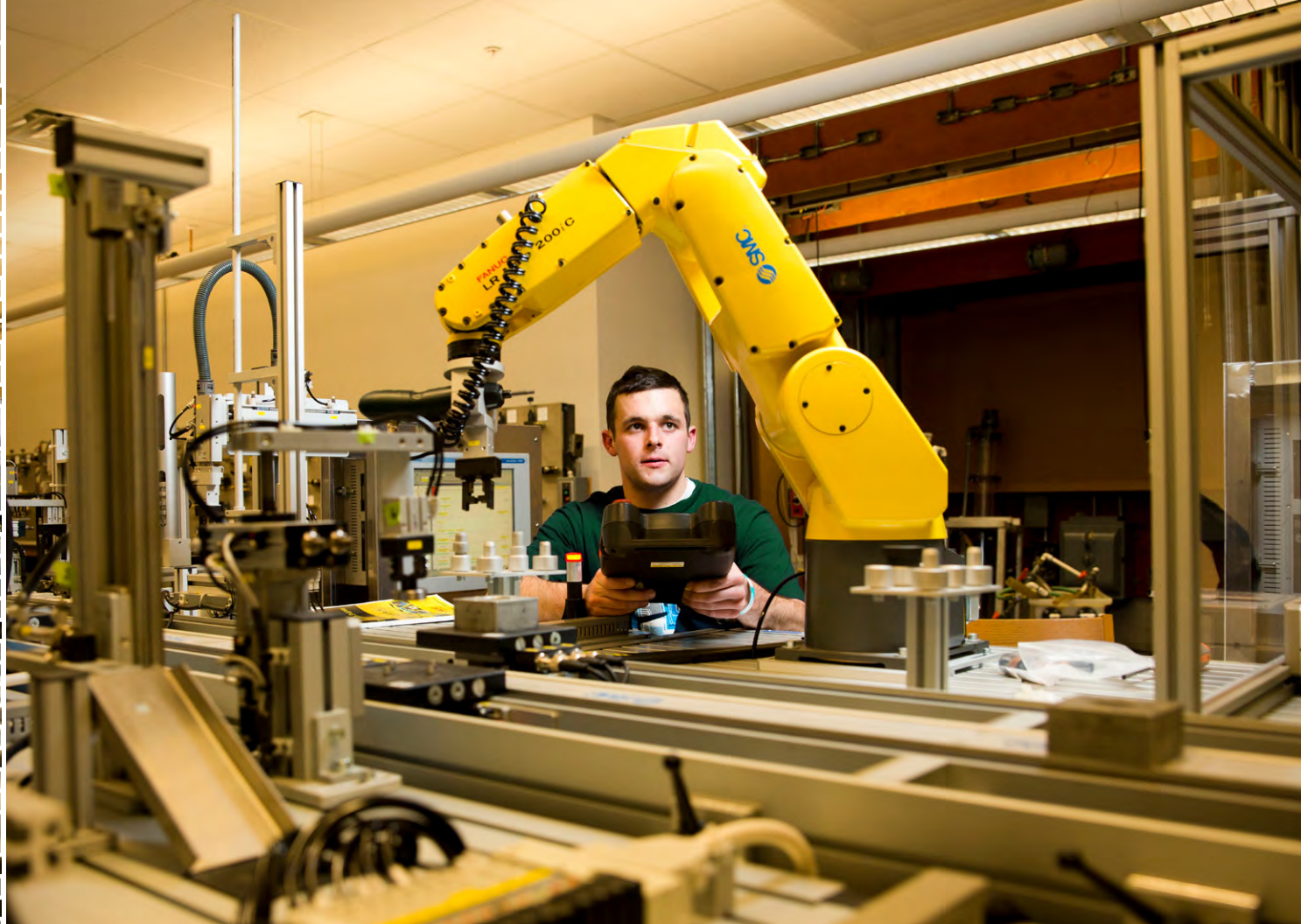
UVU

*Smith College of
Engineering & Technology*

Case for Support

uvu.edu/evergreen



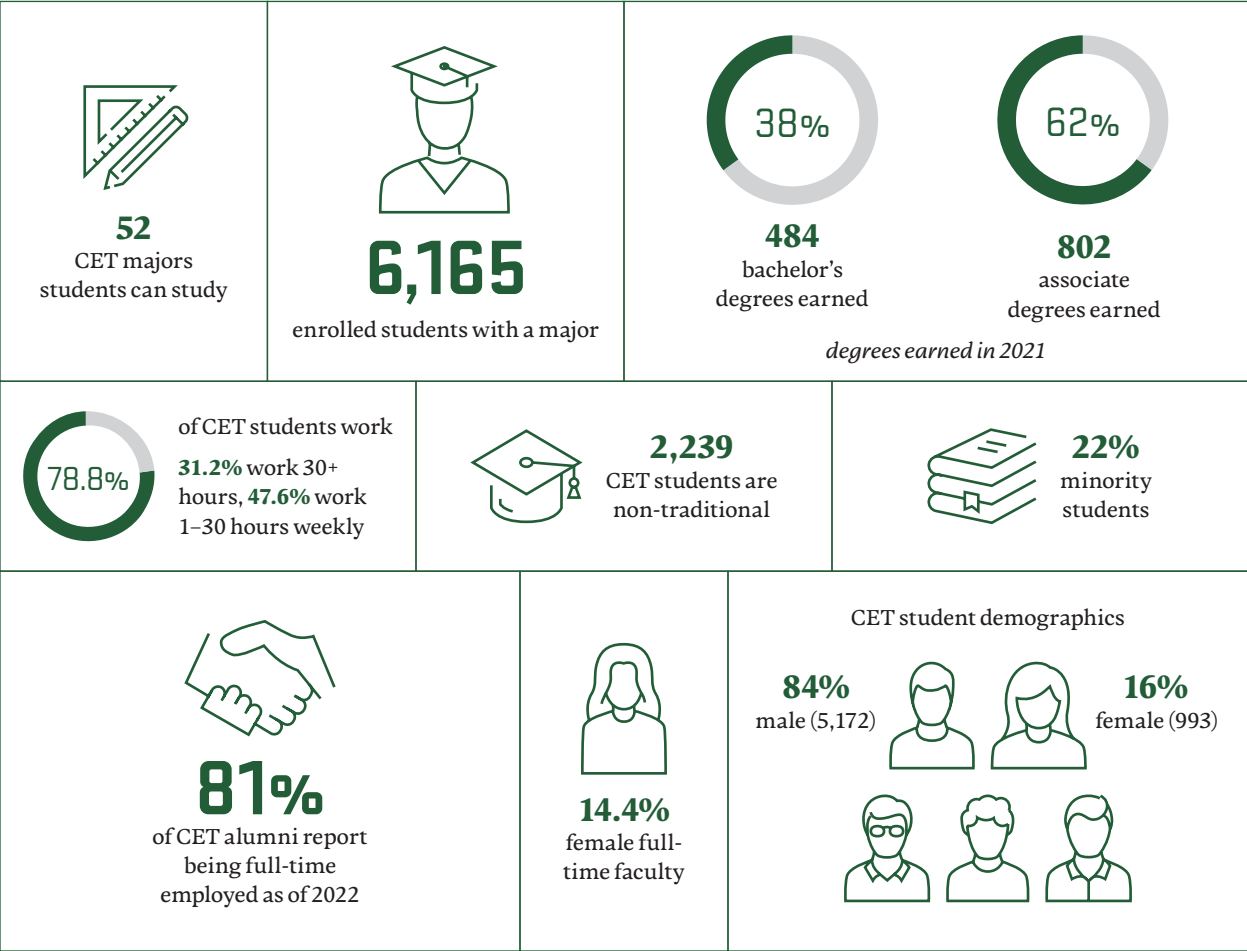


*Ever***INNOVATING.**
*Ever***EVOLVING.**
*Ever***ACHIEVING.**

The Smith College of Engineering and Technology's (CET) progress is unrelenting. Students, faculty, and staff in CET act as the energizing force that drives UVU into the future. The college offers experiential programs, exceptional instruction, and pathways – not only to degrees – but to jobs. What sets Utah Valley University (UVU) apart from other engineering and technology programs is its real-world approach that encourages students to apply and test their practical knowledge in professional settings, projects, and competitions. In the past five years, CET has proven to be an essential part of Utah's economy.



The Smith College of
ENGINEERING AND TECHNOLOGY
At-a-glance



Source: UVU Institutional Research, Smith College of Engineering and Technology

The Smith College of Engineering is UVU's largest college with 6,165 students.¹ Despite expanded interest in degree programs, headcount growth, and increased degrees awarded, the UVU CET cannot keep up with Utah's demand for engineers and technologists. In 2021, Utah universities together produced more than 3,000 engineers and computer scientists, but there remained approximately 4,000 unfulfilled positions across Utah's workforce. This demand shows no signs of waning.

CET graduates from UVU are particularly valuable in filling the demand created by technology companies in Utah County's Silicon Slopes. According to UVU's Department of Institutional Research, UVU graduates stay and work locally. Around 84% of graduates remain in Utah after graduation for at least one year, and 76% are still in Utah 10 years after graduation. The UVU CET can make a significant difference by increasing the capacity of the pipeline of young and aspiring students interested in engineering and technology. UVU ultimately will supply an increased number of engineers, technicians, and technologists required to secure the state's and nation's future viability.

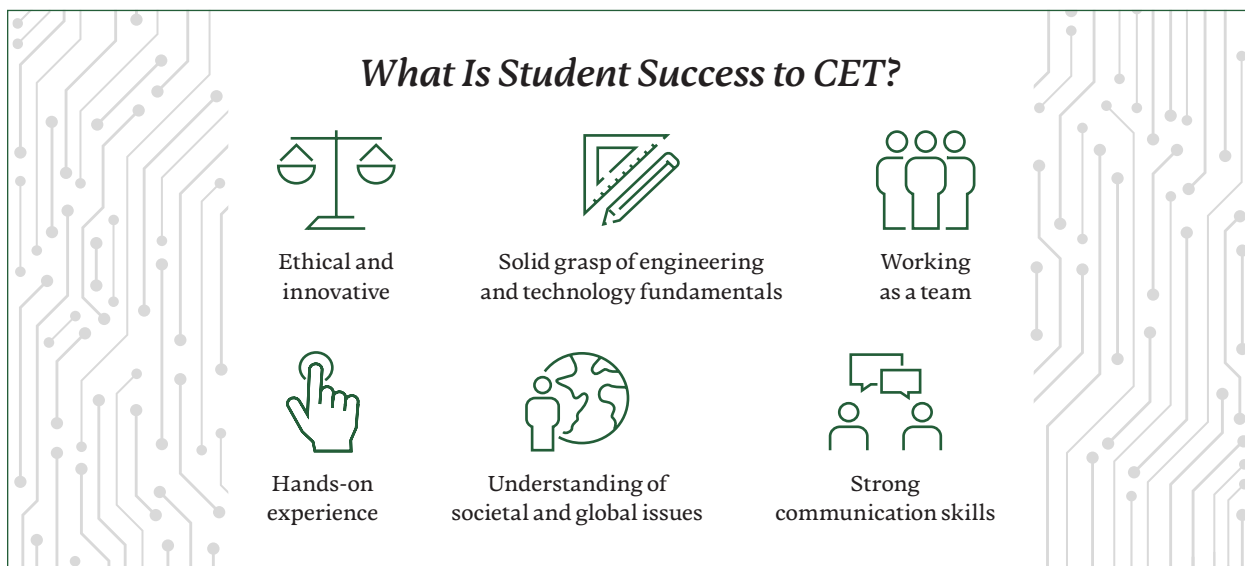
The challenge is having the space and resources needed to educate the next generation of computer scientists, technologists, and engineers. At the heart of UVU's mission is student success. With your help, we can produce a career-ready workforce, while helping students achieve professional and personal fulfillment.

For CET to prepare its students to enter the professional world as knowledgeable contributors to the fields of engineering and technology, and as bold, forward-thinking leaders, we need individuals like you to support our goals.

¹ Smith College of Engineering and Technology



- Smith College of
Engineering and
Technology Goals**
- 1 Build Infrastructure to Support Student Success
 - 2 Secure Student Success via Scholarships
 - 3 Ensure Engaged Learning and Professional Experiences



ABET Accreditation

CET offers ten programs accredited by the Accreditation Board for Engineering and Technology (ABET).

- Accredited by the Engineering Accreditation Commission of ABET:
 - Civil Engineering
 - Computer Engineering
 - Electrical Engineering
 - Mechanical Engineering
 - Software Engineering
- Accredited by the Applied & Natural Science Accreditation Commission of ABET:
 - Construction Management
 - Surveying & Mapping
- Re-accredited by the Computing Accreditation Commission of ABET:
 - Computer Science
 - Information Systems
 - Information Technology

Largest Graduating Class

In 2021, the UVU aviation program graduated **331** students, the largest in program history.



Program Growth

Highest Growth in Departments, 2017–2021

95.4%

Architecture and Engineering Design

36%

Engineering

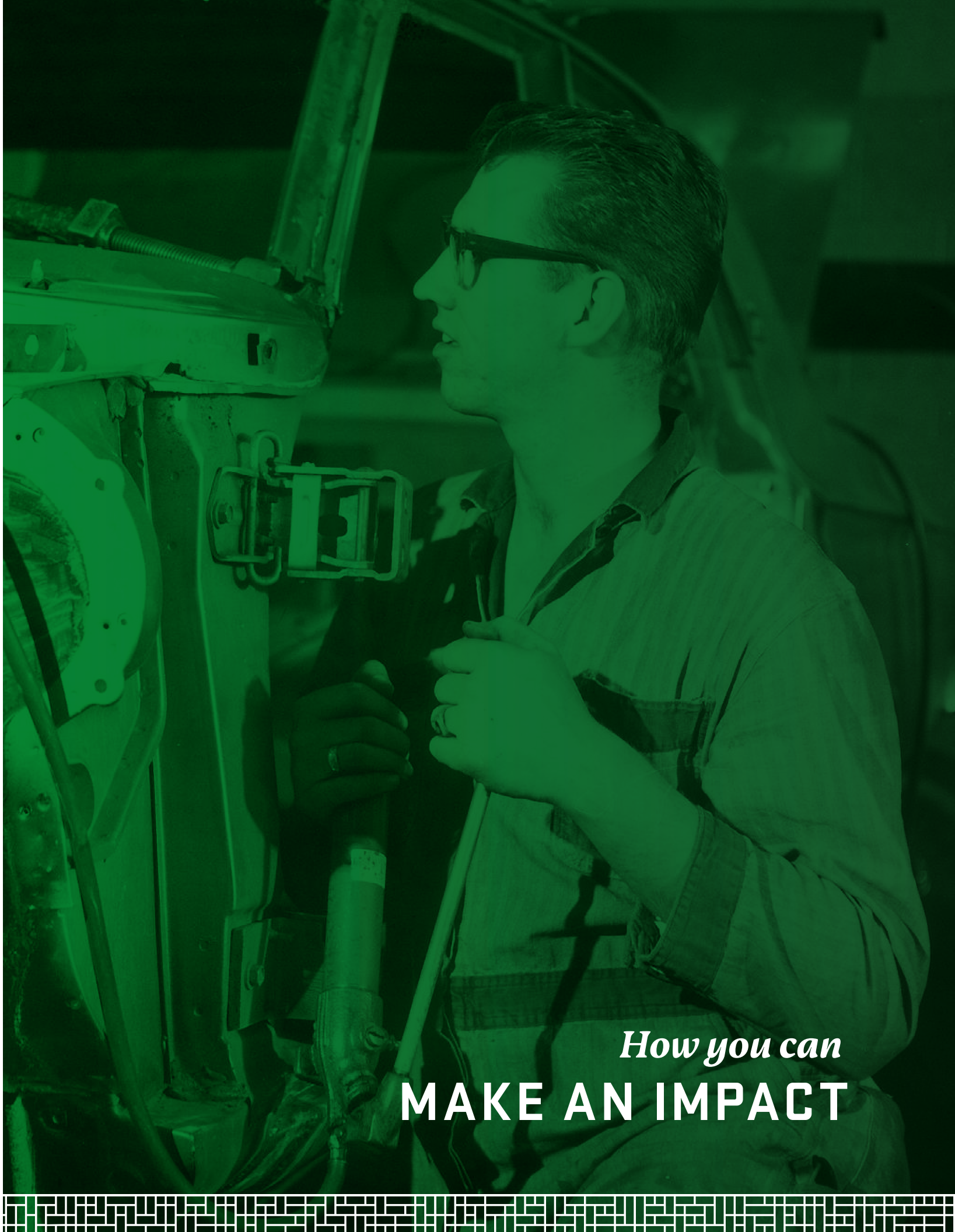
31.5%

Construction Technologies

2.4%

Digital Media

Source: Smith College of Engineering and Technology



How you can
MAKE AN IMPACT

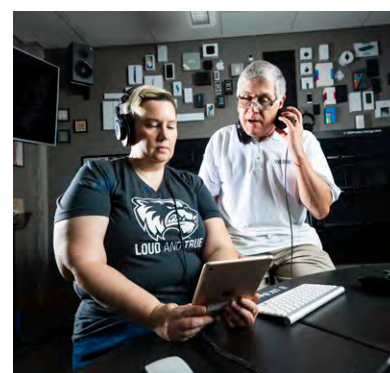



Goal 1: A New Space for the College of Engineering and Technology

This is the vision: students and faculty learning and working together in a large, modern, cutting-edge environment that provides realistic, valuable, hands-on experience. Create a new building to expand the cramped, out-of-date structures more than 20 years old. Create a building so exceptional, it will give UVU the opportunity to set the pace for higher education in the state and beyond.

The national average for physical space per engineering student is 120 square feet, and CET is currently operating at 11 square feet per student. Without more space, CET will be forced to cap engineering programs. A new building will ensure students have the space to collaborate, innovate, and explore various options within the field, preparing them for internships and jobs.

The new building will leverage industrial and scientific educational advances across many disciplines and will align technical infrastructure with existing and emerging technologies. With your support, the engineering program is on track to double the number of graduates within the next five years.






Investment:

\$110 million

\$80 million | State of Utah

\$30 million | Gifts & Donations





A Head Start

Qualtrics co-founder Scott M. Smith and his wife, Karen Smith, announced a \$25 million gift, \$15 million of which is to help fund the planned engineering building. The Smiths' gift provided a foundation for a private fundraising campaign to raise the \$30 million needed to start construction on the 184,000-square-foot, five-story building that will be located on UVU's Orem Campus.





Goal 2: Secure Student Success via Scholarships

UVU CET is passionate about establishing endowed scholarships. Financial strain is the number-one reason why students leave school early. In our college, 31.2% of students work 30+ hours a week and 47.6% work 1–30 hours weekly. And still, many struggle to pay tuition. UVU aims to alleviate students’ burden by providing philanthropic support through scholarships. Scholarship support is almost always a significant factor in a talented student’s decision to pursue a higher education degree. By funding support, UVU can help determined individuals begin their stories of greatness at UVU CET.

Our Method

- Add to their body of knowledge by learning new theories and applications
- Test the theories they learn in state-of-the-art laboratories dealing with water resources, transportation, infrastructure, energy, robotics, electrical, electronics, etc.
- Apply what they’re learning to the design and development of new products and services
- Participate in real-world professional experiences that expand their knowledge and understanding
- Work with industry partners through capstone design projects
- Prepare for national competitions that promote innovation, collaboration, and problem-solving
- Provide Utah with the workforce it needs



We are looking to fund **106 full-time scholarships** on an annual basis, or **213 part-time scholarships** annually. Over the next 40 years, this will directly impact **4,275 full-time students** or **8,550 part-time students**. This will help students and their families and generations to come.



Investment:
\$15 million



Parker’s Story



“This scholarship will help me in many ways. I am currently going into my senior year at Utah Valley University and am looking to graduate in August and begin looking for jobs within the Silicon Slopes. By having this scholarship, I will be able to devote more time to my studies, which will help me land a better full-time job upon graduation. The better job that I get when I begin working full-time, the more opportunities I will have to help better the community in which I live. Because of this scholarship, I will be able to go on to do bigger and better things. Thank you again for offering me this opportunity.”

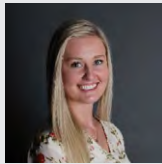
Parker Hardy '23, Systems Technology

“Receiving my scholarship helped me not only really focus on my studies but also realize that my efforts and endeavor in a foreign country are being recognized by others. This means a lot to me and encourages me to finish my degree at UVU to eventually contribute back to society with all I’ll have learned throughout my time at UVU. I’ll be ever grateful for my scholarship!”

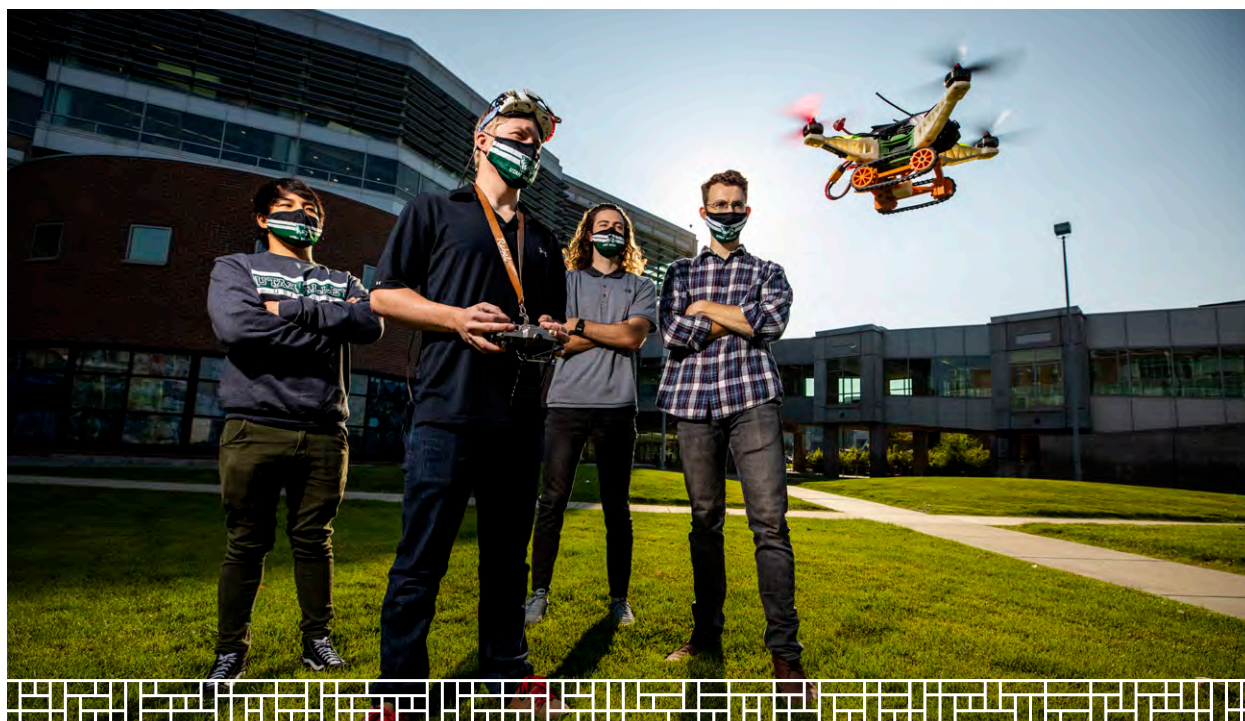


Yuki Kakegawa '22, Computer Science

“Receiving a scholarship was an amazing motivator to keep pushing forward and has helped more than words can describe. My education has been able to stay a main priority because of this incredible and generous donation. Thank you for encouraging learning and development and thank you for believing in me and my future.”



Mallory Duda '21, Technology Management, '23 MS, Engineering and Technology Management



Goal 3: Ensure Engaged Learning and Professional Experiences

UVU CET is passionate about establishing an endowed fund that can be used to offer students real-world, industry-relevant, engaged learning opportunities and professional experiences. These faculty-led programs are academic courses that combine traditional classroom learning with experiential learning. We aim to raise a \$5 million endowment that will provide \$200,000 a year to fund scholarly activities such as student research projects, development of impactful creative works, senior projects, faculty-led professional activities for students, and industry-related student competitions or tournaments. Each of these provides students a unique opportunity to step outside the classroom and learn about the world first-hand.



Investment:
\$5 million



Putting the Experience in User Experience Design

Digital media loves engaged learning. It's what we do.

Digital media professor Mike Harper launched the idea to connect students to tech companies across the United States. One student nicknamed it "UXpeditions" to combine our field of user experience design with the actionable excitement of an expedition.

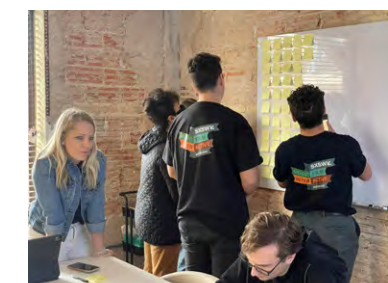
Every semester, faculty Emily Hedrick, Mike Harper, and Dan Hatch create unique opportunities for students to travel to tech companies and work with user experience (UX) designers. The students don't just meet with tech professionals, but also work side by side with them on design challenges.

Past UXpeditions have taken students to San Francisco, Seattle, New York City, Amsterdam, Indianapolis, Austin, and Denver. Companies like Apple, Microsoft, IBM, Facebook, Nintendo, and the NFL have welcomed UVU students to participate in developing design ideas and strategies.

Every UXpedition has a different focus in digital media. Students are planners, designers, digital publishers, photographers, videographers, and even drone pilots!

"I go on UXpeditions for the experience I gain working in the field and connections I make with fellow students and professionals," said Mariah Foerster, 2022 graduate.

UXpeditions have opened doors for student internships and networking opportunities beyond graduation. They open up an entirely new world for students to participate at the highest levels of our industry.





*Ever*GRATEFUL.

By sharing your means, you will enrich the lives of students and faculty who, in turn, will lift others. CET students, graduates, and faculty are already working to solve some of the world's most complex issues. Help them thrive. Together, we have the ability to transform students' lives.

Thank you!

For more information, please contact:

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