



UNDERGRADUATE STUDIES

GEORGE R. BROWN
SCHOOL OF ENGINEERING



RICE



WORLD CLASS ENGINEERING INTERPERSONAL ENVIRONMENT

Rice University's George R. Brown School of Engineering is a top-20 U.S. News & World Report-ranked school with research, facilities and academic programs among the best in the nation. Yet, we're small enough that students have unique opportunities to work side-by-side with our world-class faculty.

1434 UNDERGRADS



36% OF ENGINEERING
UNDERGRADS ARE WOMEN

Being a Rice engineer is challenging and rewarding as our students immerse themselves in hands-on research, creative design projects, data science initiatives and opportunities for leadership and internships on and off campus. It can also be life-changing; our alumni go on to start new tech firms, teach, work for Fortune 500 companies and conduct life-saving research.

#19

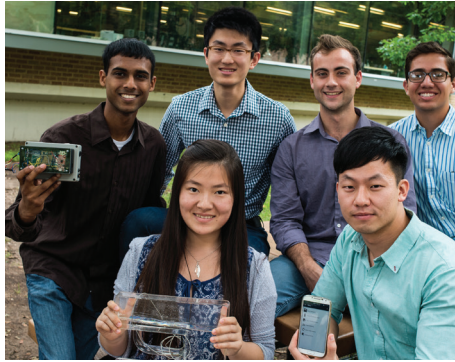
**BEST UNDERGRADUATE
ENGINEERING PROGRAM**

—U.S. News & World Report



RICE UNIVERSITY

School of Engineering



ENGINEERING DESIGN

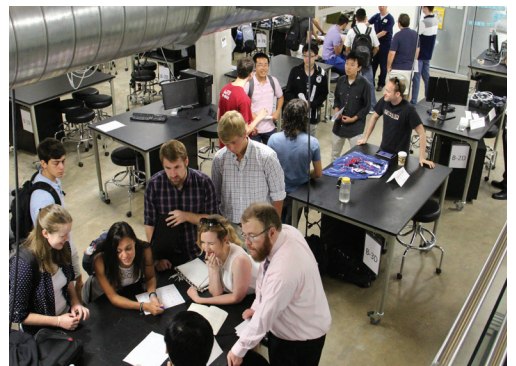
Imagine building a new rocket-propulsion system or creating a device that helps a newborn baby breathe—and it saves her life. At Rice, design is about tackling real-world challenges.

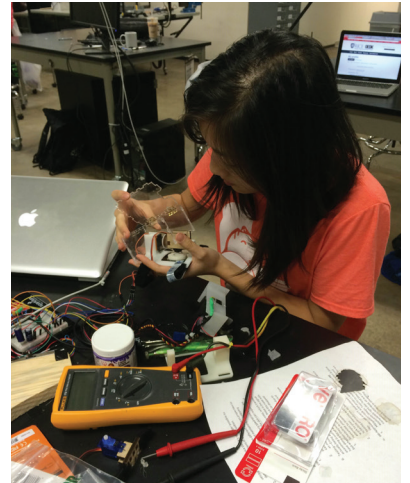
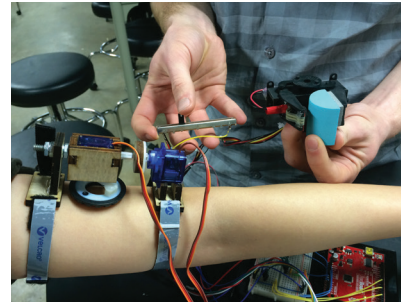
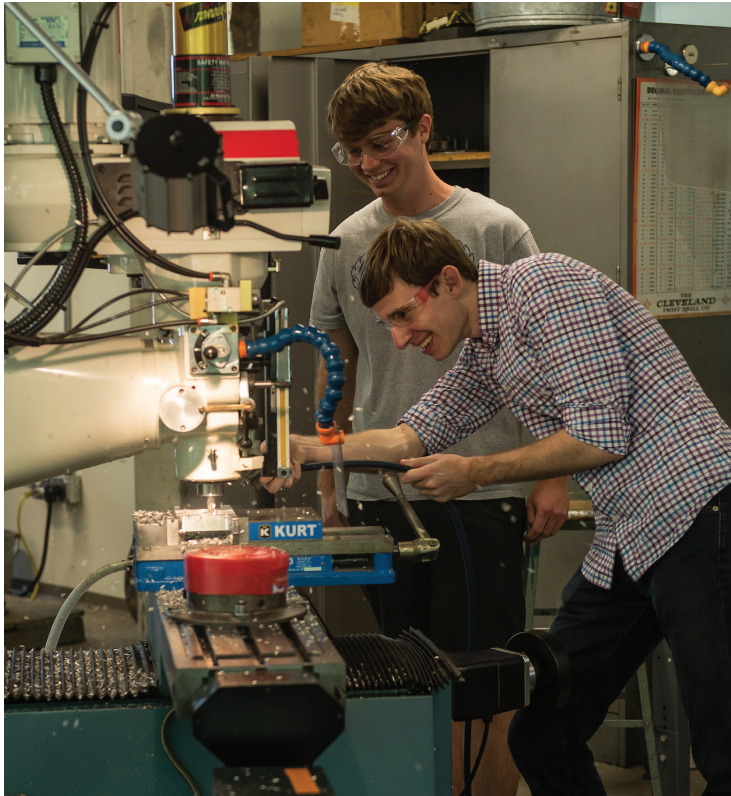
Students work in teams on projects in the Oshman Engineering Design Kitchen, a state-of-the-art facility with 3-D printers, a wet lab, machine shop, computer lab, laser cutters, a variety of common hand tools and more. Open 24/7 to engineering students, the OEDK is where our undergraduate students go to find inspiration and the tools they need to turn their ideas into reality.



OEDK

Oshman Engineering Design Kitchen





Students present design projects at the annual Engineering Design Showcase.

2020-2021

830+ students use the OEDK to design, prototype and deploy solutions to real-world engineering challenges.

These students participated in at least **100 design teams/clubs** or **24 courses** that actively used OEDK resources.



RESEARCH

Suppose you could use your love of math to have an impact on the nation's energy policy? Maybe you want to be part of health care's tissue engineering revolution. At Rice, you have broad options for research and because of our size, you'll do it working alongside some of the world's most outstanding faculty.

Your professors are leaders in their fields, as well as your mentors – and you will get hands-on opportunities while your work has a real-world impact. Students present at conferences, publish in leading academic journals and are integral parts of their research teams.

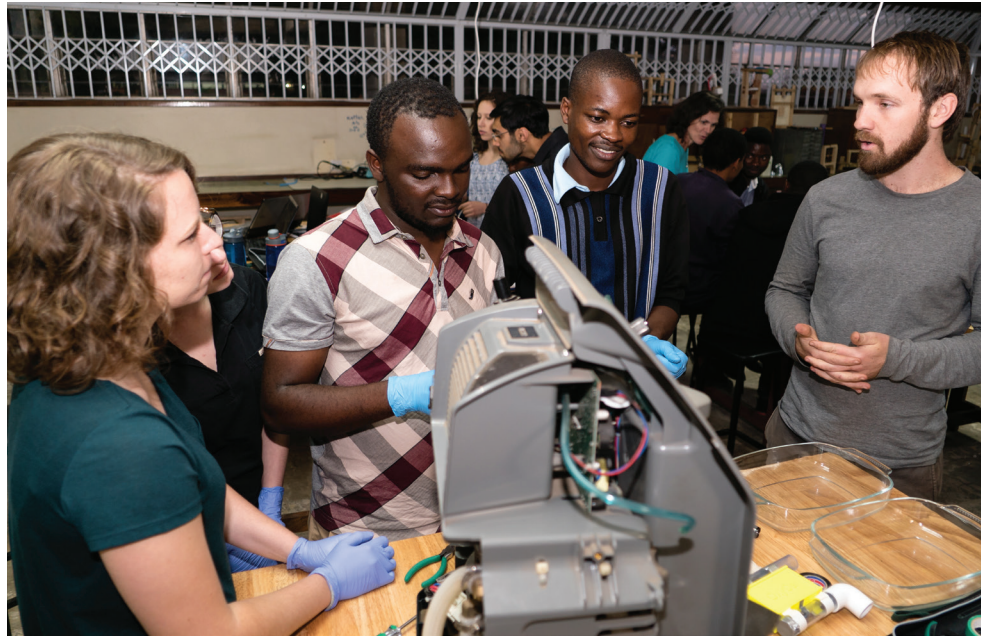
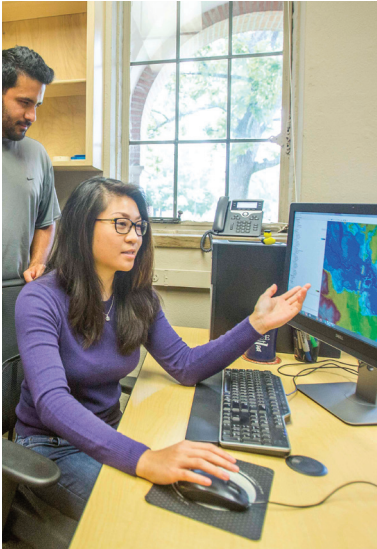
Students from the Data to Knowledge Lab present findings to Houston City Council to improve Fire Department response times



"I was able to work with the Environmental Fluid Dynamics Group using applications of deep learning to improve weather and climate models. The experience allowed me to publish papers in major journals, even as an undergraduate."

—Adam Subel '21
(Computational and Applied Mathematics and Mechanical Engineering)





COMMUNITY OUTREACH + IMPACT

Rice engineers take on challenges globally and locally. The Rice 360 Institute of Global Health Technologies offers innovative undergraduate programs that engage students to design and implement new technologies to solve real global health challenges in places like sub-Saharan Africa.

Our chapter of Engineers Without Borders has two projects in Nicaragua focusing on bringing clean water to underserved communities. Closer to home, groups like DREAM - Achievement through Mentorship, work throughout the Houston community to increase the number of underrepresented minority students involved in STEM fields.

LEADERSHIP & ENTREPRENEURSHIP

Want to launch your own business? Got an idea for a tech start-up? At Rice, you'll have all the support you need to bring your ideas to fruition.

Rice Center for Engineering Leadership

Hands-on projects emphasize communication, collaboration and creativity and an RCEL Certificate in Leadership shows the world you're serious about stepping up.



The RCEL Certificate in Engineering Leadership is the only four-year engineering leadership certificate in Texas and one of only a handful of educational innovations like it in the United States.

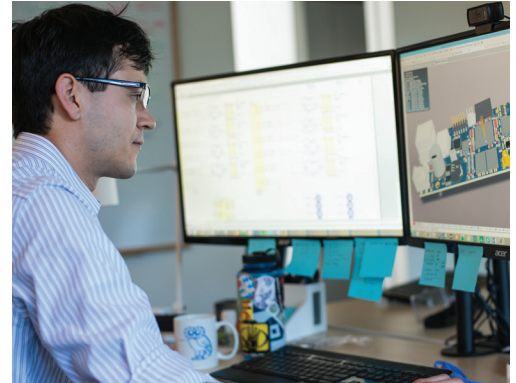


OwlSpark, the university's start-up accelerator, offers mentorship and a 12-week summer session that's a hands-on entrepreneurial boot camp.

lilie

liu idea lab for
innovation &
entrepreneurship

The Liu Idea Lab supports innovators and entrepreneurs offering courses, start-up events and connections to alumni. There's also a minor in business offered by the prestigious Jones School of Business.



ACADEMICS

Our evolving engineering curriculum prepares technically strong students and provides them with communication and critical thinking skills to help them succeed in professional and academic settings. Our programs offer innovative strategies that prepare students to identify and solve real-world challenges such as data use, infrastructure resilience and climate emergencies.

DEGREES OFFERED	BA	BS
Bioengineering		●
Chemical and Biomolecular Engineering	●	●
Civil Engineering		●
Civil Engineering with a concentration in Civil Engineering	●	
Civil Engineering with a concentration in Environmental Engineering	●	
Computational and Applied Mathematics	●	
Computer Science	●	●
Electrical and Computer Engineering	●	●
Materials Science and NanoEngineering	●	●
Mechanical Engineering	●	●
Operations Research	●	
Statistics	●	●

● Program is accredited by the Engineering Accreditation Commission of ABET.

25% OF RICE STUDENTS ARE
ENGINEERING MINORS



“I was looking for a research-based university in a big city, but with a small-town feel. That’s Rice. I’ve been able to participate in a design competition and a research symposium, which has given me the chance to work on designing creative solutions to physics-based problems.”

—Aman Eujayl '22
(Mechanical Engineering)

MINORS

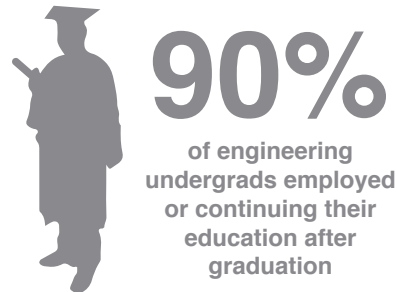
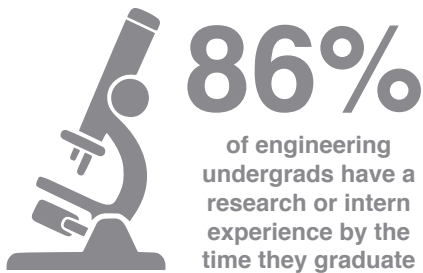
- Computational and Applied Mathematics
- Data Science
- Energy and Water Sustainability
- Engineering Design
- Financial Computation and Modeling
- Global Health Technologies
- Mathematics
- Statistics



PROFESSIONAL OPPORTUNITIES

Rice engineers are some of the most sought-after in the country. They routinely land prestigious opportunities like the Goldwater Scholarship or a coveted Kleiner Perkins Fellowship, which allow students to spend the summer at Silicon Valley startups.

They also intern with global companies like Facebook and Microsoft. When they graduate they work at Fortune 500 companies and high tech startups or go on to top programs at leading universities, earning spots as Fulbright, Marshall or Knight-Hennessy Scholars.



MOST COMMON GRADUATE SCHOOL PLACEMENTS

MIT
UNIVERSITY OF CALIFORNIA, BERKELEY
GEORGIA TECH
STANFORD UNIVERSITY
UNIVERSITY OF TEXAS AT AUSTIN

MOST COMMON FIRM PLACEMENTS

CHEVRON
GE
FACEBOOK
GOOGLE
MICROSOFT

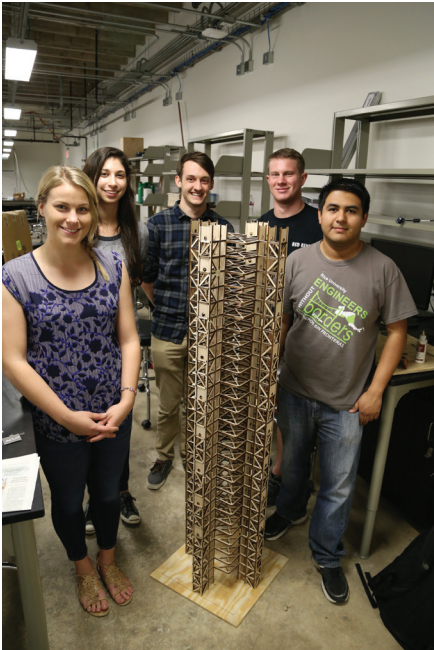
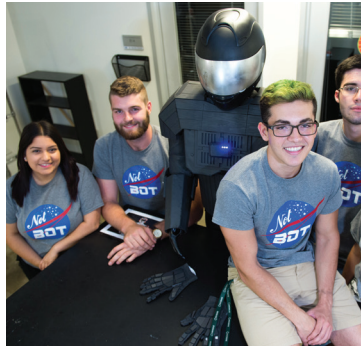
MOST COMMON INTERNSHIP PLACEMENTS

BAYLOR COLLEGE OF MEDICINE
JPMORGAN CHASE & CO.
MICROSOFT
FACEBOOK
OPENSTAX



"The curriculum is full of tools that are widely used in industry and projects to help you develop the skills to use them."

—Fasai Phuathavornskul '19
(Electrical and Computer Engineering)



STUDENT LIFE

Engineering students are vital to the fabric of Rice University. They are leaders in their residential colleges, student clubs and in university-wide initiatives. At Rice, you can be part of a team building a solar car or a Hyperloop pod or help send a satellite into space.

You can also be part of an improv comedy troupe, star in a play or teach a class about your passion. More than 200 clubs – many of them engineering-focused – and dozens of intramural sports are available. Rice routinely gets high marks for having the happiest students and best quality of life..

ENGINEERING CLUBS

National Society of Black Engineers (NSBE)
 Society of Asian Scientists and Engineers (SASE)
 Society of Hispanic Professional Engineers (SHPE)
 Society of Women Engineers (SWE)
 American Institute of Chemical Engineers (AIChE)
 American Society of Civil Engineers (ASCE)
 American Society of Mechanical Engineers (ASME)
 Art and Engineering Club
 CSters (for women in computer science)
 Concrete Canoe Team

Engineers Without Borders (EWB)
 Institute of Electrical and Electronics Engineers (IEEE) Chapter
 Rice Computer Science Club
 Rice Eclipse (rocket club)
 Rice Electric Vehicle Team
 Rice Environmental Club
 Rice Data Science Club
 Rice Hyperloop
 Students for the Exploration & Development of Space (SEDS Rice)



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