YOUR FUTURE STARTS HERE.
What is an engineer? What kinds of careers are available in engineering?

College facts and everything you need to know about your life as an engineering student at UH.

Learn about the different departments in UH Engineering and how to customize the right degree for you.

Money matters. Read information on tuition, financial aid, scholarships and freshman requirements.

Imagine engineering the future in the city of Houston, the Energy Capital of the World.
INTRO TO ENGINEERING

As you move through this world, we ask you to take a second look at the infrastructures, technologies, tools and machines that shape your daily life: the cars, cell phones, lights, bridges, buildings, clean water, cameras, computers – even the fuel powering our planet. Is there anything that an engineer has not touched?

WHAT IS AN ENGINEER?

Engineers are the thinkers, doers and creators of the modern world we so often take for granted. They are the designers, builders, problem-solvers and inventors of our yesterday, today and tomorrow.

Engineers aren’t just experts in science, mathematics, physics and chemistry – they are experts at applying these sciences to the real world in order to solve problems, overcome challenges, or simply improve the quality of life for current and future generations.

Engineers generally focus on one of the following fields:

- biomedical engineering
- chemical engineering
- civil engineering
- environmental engineering
- electrical engineering
- computer engineering
- industrial engineering
- mechanical engineering
- petroleum engineering

To learn more about the different engineering professions and fields of study, turn to page 4.
Careers in engineering vary depending on which field of study you choose to pursue. However, due to a national shortage of qualified engineers, all engineering professionals are well-paid and jobs are very easy to come by – especially in the city of Houston, the Energy Capital of the World. Engineering graduates are projected to be the highest paid major in 2017, earning an average annual salary of $66,097. Continue reading for a breakdown of the different types of engineering majors and their average annual salaries.

**CIVIL & ENVIRONMENTAL**
When you make it safely across a bridge, thank a civil engineer! They are responsible for designing and constructing structures and infrastructure that we use in our daily lives – from the roads we drive on, to the buildings we work in, to the clean drinking water that flows from our faucets. Environmental engineers are vital to maintaining the health of our planet by finding new ways to curb pollution and ensuring our environment remains as clean and healthy as possible. Their influence touches most of our daily lives!

**ELECTRICAL & COMPUTER**
Electrical and computer engineers are responsible for some of our favorite toys, such as smartphones and video games, and many of our most crucial systems, including electrical grids and telecommunications. As innovators and creators at the forefront of technology, electrical and computer engineers have an extremely wide array of employment options available to them. Anywhere you find electrical or computer systems – from energy and medicine to aviation and computer gaming – you’ll find electrical and computer engineers.

**CHEMICAL**
The foundation of the world boils down to chemicals, and chemical engineers turn those chemicals into everyday products and lifesaving medicines. Their work ranges from improving healthcare to finding safer and more efficient ways to retrieve oil and gas. Chemical engineers also play a leading role in the discovery of new, alternative fuels and energy sources that are less harmful to our environment.

**BIOMEDICAL**
Without engineering, the world would not have X-rays, ultrasounds, heart monitors or many of the life-saving devices and equipment used in modern medicine. Many of the tools and technologies used in our hospitals and clinics are products of engineers and engineering. Biomedical engineers not only develop these cutting-edge devices and technologies, but also find new ways to diagnose conditions, fight diseases and improve patients’ overall quality of life.

**INDUSTRIAL**
Industrial engineers are on the front lines of engineering processes, working to make things run smoothly across all of the engineering disciplines. If there’s a way to optimize a system or make a process more efficient, industrial engineers will find it. They take a holistic approach to problem solving by considering people, places, equipment and information in systems or processes to find new ways to optimize them.

**MECHANICAL**
Mechanical engineers are masters-of-all-trades in the engineering field. Most of our daily activities involve mechanical processes, and anything with a mechanical process is the business of a mechanical engineer. These engineers build cars, computers, airplanes and toys. Their contributions to our world include new technologies and devices for the energy, medical, aerospace and biotechnology industries.

**PETROLEUM**
Petroleum engineers solve the most critical and pressing energy challenges facing the world, including how to meet increasing global demand for energy while ensuring the safety and health of our environment. Petroleum engineers are entrusted by the public to implement solutions to these problems in a safe, ethical and environmentally responsible manner. The field sets high standards for competency as well as ethics.
UH graduates beat the national average for starting and mid-career salaries (Source: PayScale.com)

UH is #7 in U.S. for graduating students with the least amount of debt (Source: U.S. News & World Report)

UH is a “Best Value College” (Source: Princeton Review)

UH is awarded $113 million in grants and scholarships each year

UH is among the “Top 100 Most Affordable Large Public Colleges” (Source: AffordableCollegesOnline.org)

2018 AVERAGE ANNUAL SALARIES IN ENGINEERING

<table>
<thead>
<tr>
<th>Field</th>
<th>Median entry-level salary¹</th>
<th>Mean annual salary²</th>
<th>Top 10%³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace</td>
<td>$72,715</td>
<td>$115,300</td>
<td>$162,110</td>
</tr>
<tr>
<td>Biomedical</td>
<td>$62,170</td>
<td>$92,970</td>
<td>$142,610</td>
</tr>
<tr>
<td>Chemical &amp; Biomolecular</td>
<td>$68,360</td>
<td>$112,430</td>
<td>$169,080</td>
</tr>
<tr>
<td>Civil</td>
<td>$58,838</td>
<td>$91,790</td>
<td>$138,110</td>
</tr>
<tr>
<td>Computer</td>
<td>$72,629</td>
<td>$119,650</td>
<td>$176,900</td>
</tr>
<tr>
<td>Electrical</td>
<td>$67,404</td>
<td>$99,580</td>
<td>$150,340</td>
</tr>
<tr>
<td>Environmental</td>
<td>$58,512</td>
<td>$91,180</td>
<td>$134,060</td>
</tr>
<tr>
<td>Industrial/Manufacturing</td>
<td>$62,063</td>
<td>$90,340</td>
<td>$130,930</td>
</tr>
<tr>
<td>Materials</td>
<td>$68,349</td>
<td>$96,810</td>
<td>$149,860</td>
</tr>
<tr>
<td>Mechanical</td>
<td>$64,695</td>
<td>$91,500</td>
<td>$133,900</td>
</tr>
<tr>
<td>Petroleum</td>
<td>$93,094</td>
<td>$154,780</td>
<td>$250,000</td>
</tr>
<tr>
<td>Subsea</td>
<td>$93,829</td>
<td>$106,347</td>
<td>$300,000</td>
</tr>
</tbody>
</table>

1 Figures from payscale.com, June 2018
2, 3 Figures from National Occupational Employment and Wage Estimates, U.S. Department of Labor, 2017

ENGINEERING JOB PROJECTIONS THROUGH 2023:

11% GROWTH

249,908 new jobs will be available for engineers

TOP 10 OCCUPATIONS

Growth forecast for engineering occupations:

- Civil engineers +45,745
- Mechanical engineers +25,485
- Architectural and engineering managers +19,650
- Industrial engineers +17,660
- Electrical engineers +16,561
- Electronics engineers* +12,139
- Petroleum engineers +11,469
- Computer hardware engineers +10,799
- Biomedical engineers +10,542
- Environmental engineers +10,129

TOP 10 LOCATIONS

These U.S. metropolitan areas will have the greatest demand for engineers:

<table>
<thead>
<tr>
<th>Location</th>
<th>Growth Forecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houston, TX</td>
<td>+14,925</td>
</tr>
<tr>
<td>Washington, D.C.</td>
<td>+9,864</td>
</tr>
<tr>
<td>Los Angeles, CA</td>
<td>+8,898</td>
</tr>
<tr>
<td>Dallas, TX</td>
<td>+8,163</td>
</tr>
<tr>
<td>San Francisco, CA</td>
<td>+7,312</td>
</tr>
<tr>
<td>New York, NY</td>
<td>+6,970</td>
</tr>
<tr>
<td>San Jose, CA</td>
<td>+6,820</td>
</tr>
<tr>
<td>Boston, MA</td>
<td>+6,773</td>
</tr>
<tr>
<td>Denver, CO</td>
<td>+6,385</td>
</tr>
<tr>
<td>Phoenix, AZ</td>
<td>+6,147</td>
</tr>
</tbody>
</table>

Source: kellyservices.us/engineeringcareers

*Excluding computer engineers

DID YOU KNOW?

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CULLEN COLLEGE OF ENGINEERING

BY THE NUMBERS

TOP 100
ENGINEERING SCHOOLS IN THE U.S.
(As Rated by U.S. News & World Report)

22:1
UNIVERSITY-WIDE
STUDENT-TO-FACULTY RATIO

30+
ENGINEERING STUDENT
ORGANIZATIONS

$26M+
IN RESEARCH EXPENDITURES

80%
OF UH ENGINEERING B.S. STUDENTS ARE
EMPLOYED IN TEXAS WITHIN 1 YEAR OF
GRADUATION

$104,640
AVERAGE ANNUAL SALARY OF ENGINEERING
PROFESSIONALS IN HOUSTON, TEXAS

15
NATIONAL ACADEMY OF
ENGINEERING FACULTY MEMBERS

19,000+
TOTAL ALUMNI
OF THE CULLEN COLLEGE
OF ENGINEERING

CULLEN COLLEGE 2018 FAST FACTS

139
FACULTY

1,153
GRADUATE
STUDENTS

3,061
UNDERGRADUATE
STUDENTS

DEGREES AWARDED (FY 2018):
B.S. 714  M.S. 378  PH.D. 84  TOTAL 1,176
We’ve got everything you’d expect from a top engineering college – outstanding faculty, cutting-edge research and state-of-the-art facilities. But just how good are we?

- **UH engineering students ranked 15th in the U.S. for salary-earning potential** (Source: PayScale.com)
- Lauded by Forbes.com as leader in energy research and education (2016)
- Named one of Princeton Review’s best colleges for undergraduate education, return on investment and upward mobility (2016)
- Listed as one of the world’s top universities for grads who go on to become CEOs (Source: The Times Higher Education of London)
- Ranked among the best colleges in the world to earn an engineering degree (Source: CEOWorld Magazine, 2016)
- Declared one of the top 25 places to earn a bachelor’s degree in chemical engineering in the U.S. (Source: CollegeChoice, 2016)

---

**DID YOU KNOW?**
- 3,500+ UH alumni are presidents, CEOs, or heads of their own companies
- 63% of all University of Houston alumni live and work in Houston
- UH students spend over 1 million hours volunteering and interning in Houston each year
- 14% of all Houstonians with bachelor’s degrees received them from UH

**ANATOMY of an engineer**

- Designs wearable prosthetics for children
- Student by day, philanthropist by night
- Dreams of helping people and improving lives

---

**BRAGGING POINTS**

3,500+ UH alumni are presidents, CEOs, or heads of their own companies.
Admission standards for entering the Cullen College are very high – and the hard work doesn’t end once you’re admitted. It takes a great deal of studying and perseverance to make it through to graduation.

Luckily, your engineering classes will be small, averaging 22 students per class, and teaching assistants or graduate students rarely teach engineering courses. Most engineering courses are taught by full-time faculty members, even at the freshman level.

The Cullen College offers eight undergraduate majors: biomedical engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering and petroleum engineering.

It’s not an easy road, but it’s a worthwhile one. After graduation, career opportunities for engineers are limited only by their imaginations, and there’s no better place than Houston to begin an engineering career!
By the time you earn your bachelor’s degree from the Cullen College, you will have completed years of laboratory training and professional development. You will be confident and well-prepared to take on the future, no matter the direction your engineering career path takes you!

Several undergraduate research opportunities and scholarships are available in the college’s many research laboratories, centers and industry consortia. Moreover, many engineering faculty members welcome and encourage undergraduate students to join their research groups. Just ask!

At the UH Cullen College of Engineering, you’re exposed to hands-on, real-world training with cutting-edge technologies inside state-of-the-art facilities starting on your very first day as a freshman.
Best Places to Study

1. M.D. Anderson Library
2. Commons areas in the dorms
3. The Nook
4. Basement in E.E. Oberholtzer Residence Hall
5. Engineering Commons
6. Outdoor picnic tables between Engineering Buildings 1 and 2
7. Student Center Satellite
8. Large stairs in the UC

Best Places to Hang Out with Friends

1. Cafe 101
2. The Nook
3. Calhoun Rooftop Bar
4. The Den
5. The game room and bowling alley at the UC Center
6. Engineering Commons

Best Places to Eat

Best Places to Eat on Campus

1. Pink’s Pizza
2. Fat Bao
3. Calhoun’s Rooftop Bar and Grill
4. McAlisters’ Deli
5. Barron’s – Hilton College’s famous student-run restaurant
6. Fresh Foods at Moody Towers
7. Freshii at the UC

Best Places to Eat Between Classes (or When You’re in a Hurry)

1. Convenience Stores (C-Stores)
2. Student Center Satellite – Little Kim Son, Sushic, Tandoori Nite and more
3. Einstein Bros. Bagels
4. Food court at the UC – Chick-Fil-A, Starbucks, Freshii and more
5. Cougar Woods Dining Hall
6. Whataburger
7. Cafe 101 (milk teas and tapioca tea)

During the academic year, a rotation of local food trucks set up shop on campus. Some of our students’ favorites include:

- Bonjour Creperie: Sweet and savory crepes
- Grilly Doner: Turkish kebabs and wraps
- Coreanos: Mexican-Korean fusion
- B’Lah Cubhade Katz: Southern comfort food
- The Food Party Wagon: Louisaianese flare
- Flip N’ Patties: Filipino street food
- Golden Grill: Gourmet grilled cheese
- Yo Yo’s Hot Dogs: Louisiana flare

Best Extracurriculars for Engineering Students

1. Sigma Alpha Epsilon (SAE)
2. Society of Women Engineers (SWE)
3. Society of Petroleum Engineers (SPE)
4. American Institute of Chemical Engineers (AICHE)
5. American Society of Mechanical Engineers (ASME)
6. American Society of Civil Engineers (ASCE)
7. Institute of Electrical and Electronic Engineers (IEEE)
8. National Society of Black Engineers (NSBE)
9. Society of Asian Scientists and Engineers (SASE)
10. Society of Petroleum Engineers (SPE)

Best Things to Do When You Need a Break from Studying

1. Frontier Fiesta
2. Engineering Alumni Association football tailgates
3. IEEE Chili Cook Off
4. Beginning of Semester Party
5. Pre-OIC Crawfish Boil
6. Intramural sports
7. UH Rec Center

CougLife gives away tickets to festivals around the city like Day for Night on Facebook

UH is #2 in Texas for number of beds in campus housing
UH has 7 residential communities, with more to come
UH has 30 campus restaurants and dining halls
UH has a First Year Residential Experience (FYRE) to help with the transition to college life
The UH Cullen College of Engineering is centrally located in the Energy Capital of the World. The city of Houston is home to the world’s largest medical center, NASA, the Port of Houston and the second-most Fortune 500 headquarters of all major U.S. cities.

DID YOU KNOW?

- Houston is the 4th largest city in the nation
- Houston was named the 3rd best city for young professionals by Forbes Magazine
- Houston has the largest medical center in the world
- Houston ranks 2nd in employment growth in the nation

The University of Houston’s location in the heart of Houston makes maintaining jobs, internships or fellowships while pursuing an undergraduate degree very doable. Cullen College students are strongly encouraged to take on internships or other professional development opportunities while they are still in school. Dedicated staff members in the Engineering Career Center provide students with direct access to internships, fellowships and full-time positions throughout the region. We want you to turn your dream job into a reality!

Visit career.egr.uh.edu
If you’ve been accepted into the UH Cullen College of Engineering, then one thing is certain: You have what it takes to be a world-class engineer. It is our job to make sure you have all the tools and support you need to make it through your degree and on to the next steps of your career.

The Program for Mastery in Engineering Studies, or PROMES (pronounced “promise”), is a student success program dedicated to providing the help and support you need to succeed in engineering.

PROMES provides engineering students with academic advising, workshops, scholarships, and professional and personal development opportunities. We help you keep up with your classes, study for your exams, discover where you best fit in the college community, and find balance between your personal and academic lives.

PROMES is open to all undergraduate students in the college and provides a positive learning environment that supports your needs.

For more information, please visit promes.egr.uh.edu

The UH Cullen College of Engineering and the UH Honors College jointly offer a challenging program for Honors College students with majors in engineering. The Honors Engineering Program (HEP) offers courses that are tailored to the needs of high-achieving students.

Freshman-level HEP courses emphasize team-based, project-oriented learning in small classes that are restricted to HEP students. These fun, hands-on courses focus on fostering creative, open-ended thinking and engineering design. HEP students will fulfill many required courses in Honors sections of required engineering courses. All in all, the HEP provides the academic environment of a small college with the resources of a large university.

For more information, please visit www.uh.edu/honors
YOUR LIFE

OUR ADVICE TO YOU...

Like most worthwhile endeavors, the road to earning your engineering degree may be bumpy at times, but the Cullen College offers a variety of resources to make your ride as smooth as possible. Here’s our advice for making it through your undergrad degree.

GET INVOLVED.

Getting involved in student organizations and professional societies not only increases your chances for success in engineering—it gives you access to leadership and networking opportunities that help to prepare you for life after college. Joining student organizations and professional societies is also a great way to meet fellow engineering students and connect with your classmates for study groups and academic support.

For more information, please visit

www.egr.uh.edu/people/engineering-student-organizations

GET CONNECTED.

Being connected within the engineering community vastly increases the chances that you will successfully complete your engineering degree. We strongly encourage all students to connect with professional or student organizations, join a research group on campus and seek out jobs and internships with local employers.

GET HELP.

When the going gets tough during your engineering education, the tough get help.

The University of Houston offers a wide variety of resources to help you through any academic, personal, social or professional struggles you may have during your time on campus. UH students have access to free tutoring services, student advocacy and support services, accommodation and support services for students with disabilities, and wellness, recreation and health services.

As an engineering student, you will also have special access to the Engineering Computing Center, the Engineering Career Center and the various engineering student organizations and professional societies!
Although getting through your engineering degree will require you to spend a lot of hours with your nose in a textbook or your eyes glued to a computer screen, it’s important to look up from your research, studies or homework for a break every now and then. And when break time rolls around, you’ll have no shortage of fun activities to help you blow off steam and clear your mind before the next big exam or project.

So after a long day of classroom lectures and studying, make sure you take the time to climb the 53-foot climbing wall before taking a dip in the 70-meter indoor pool, sauna or whirlpool inside the UH Campus Recreation Center – or sign up for an intramural sports team, join an aerobics class, or see a concert on campus with your friends and classmates.

Stress management isn’t only important while earning your engineering degree – it’s important for your life after college as well. That’s why UH offers a wonderful array of free support services for students, such as:

- UH Wellness, where you can take part in individualized programs or group fitness activities that help with improving both mind and body;
- Counseling & Psychological Services, where you can access mental health professionals any time you’re feeling overwhelmed or just need someone to talk to;
- The Ombudservice, where you can get the help you need resolving any academic or nonacademic issue you might have, such as residency status, registration, fee payment, housing, financial aid, grades, parking and more.

**MANAGE STRESS.**

**UH Campus Recreation Center**

*Normal Operating Hours*

- Mon – Thurs: 6:00am – 11:30pm
- Fri: 6:00am – 8:00pm
- Sat: 10:00am – 8:00pm
- Sun: Noon – 11:30pm

*For more information on modified hours and all of the recreational opportunities available to you, please visit www.uh.edu/recreation*

**CHECK IN AND STAY IN TOUCH.**

At the Cullen College, our faculty and staff want to know you by name. We want to know your thoughts, suggestions, comments and what your hobbies are outside of engineering. Forming and maintaining a connection with your professors and the college staff members who help you is just as important as forming connections with fellow engineering students. So, when you have a bit of down time, please knock on our doors and tell us what’s new with you! You are the reason we come to work at the college each and every day, and nothing makes us more excited to do our job and do it well than hearing from our students both during and after their time at the Cullen College.

Please visit www.egr.uh.edu/news/enews to sign up for email updates from the Cullen College and stay up-to-date on the latest news!
Engineers are artists, writers, scientists, musicians, communicators, inventors, athletes, leaders, composers, dancers, poets, entrepreneurs and designers. Engineers are all of these things and so much more.

Your life as an engineer doesn’t begin and end with engineering. While you’re pursuing your degree, we want you to pursue the things that make you you.

The University of Houston community is as diverse as it is vibrant. Whatever your hobbies or interests outside of engineering might be, the University of Houston has a home for you – and we’re here to help you find it. Please visit www.uh.edu/student-life to learn more!

Julie Rogers
Mechanical Engineering, Ballet Dancer

“I love the order and the structure of ballet – it’s actually a lot like math. People will often ask me if I’m choosing my head over my heart – engineering over dance – but for me, they’re both heart.”

Michael Pincus
Electrical and Computer Engineering, Advanced Collegiate Racer and Professional Cycling Coach

“The endurance aspect of racing – being out there on your own and continuing to push yourself – and the training mindset have both definitely carried over into engineering.”

Yufeng Shen
Chemical Engineering, Collegiate Rock Climber

“I found a great community in the UH rocks climbing club – it’s something that makes me feel like I really belong to this school.”
“I used to think that art and science were two completely different worlds, but my professors have helped me see there is a connection.”

“Intelligence will never stop being beautiful. I want to be a role model for young girls in both the STEM and social media worlds.”

“When I’m in a difficult class or working a complex problem, playing music can be an escape – something that relaxes me so I can clear my head and focus again.”

“Intelligence will never stop being beautiful. I want to be a role model for young girls in both the STEM and social media worlds.”
Learn about the different departments and programs at the UH Cullen College of Engineering and choose how to customize the right degree for you.
Biomedical engineers solve problems in biology and medicine, playing a central role in advancing healthcare, medicine and patient care. At the University of Houston Cullen College of Engineering, biomedical engineering students and faculty members are researching new methods for diagnosing diseases, improving therapies for treatment of diseases and developing cutting-edge medical technologies that are being implemented in hospitals and clinics across the country.

CAREERS IN BIOMEDICAL ENGINEERING

Biomedical engineering students at the UH Cullen College of Engineering will be prepared for careers in the biomedical technology industry, graduate school or professional programs such as engineering, medicine, business and law. The Cullen College has a dedicated Engineering Career Center which connects hundreds of engineering students each year to internships and full-time positions throughout the region. A 2018 salary survey produced by PayScale.com found that new biomedical engineering graduates earned an average starting salary of $62,170.

FAST FACTS

208
Total Undergrad Students in Department

21
Total Faculty in BME Department

$62,170
Average Starting Salary with B.S. in Biomedical Engineering

$92,970
Average Annual Salary in Biomedical Engineering

The New Doctor Is In.

Biomedical engineering undergraduate students at the UH Cullen College of Engineering are taught by the world’s leading experts and researchers in the biomedical engineering field. The biomedical engineering undergraduate program prepares students for a huge range of career opportunities, and places an emphasis on exposing students to cutting-edge technologies through such courses as “Biomedical Microdevices” and “Regenerative Medicine and Stem Cell Engineering.” The courses lead up to a one-year Capstone senior design course that explores regulatory and business development issues in the fall and segues into the project design component with the start of the spring semester.

The biomedical engineering undergraduate program requires a working knowledge of life sciences and engineering tools and logic. The interdisciplinary curriculum incorporates math, physics, chemistry and biology with mechanical, electrical and chemical engineering.

Prior to the beginning of your junior year, you will have the option of customizing your biomedical engineering curriculum by choosing one of three emphasis areas: biomedical imaging, bionanoscience, or neural & rehabilitation engineering.

Learn more at www.bme.uh.edu/undergraduate

WHY EARN YOUR BIOMEDICAL ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

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ACADEMICS

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Learn more at www.bme.uh.edu/undergraduate

SCHOLARSHIPS

The department funds undergraduate research fellowships for qualified, top-performing upperclassmen. Merit-based scholarships are also awarded by the Cullen College of Engineering.

Scholarships are also offered by the UH Office of Scholarships and Financial Aid. Additionally, the university’s co-op program offers students the opportunity to receive career training while financing their education.

Learn more at www.egr.uh.edu/academics/scholarships

STUDENT ORGANIZATIONS

Students are encouraged to join academic and professional organizations to build leadership, communication and networking skills. Members of student organizations receive career guidance from engineering professionals and participate in activities that promote engineering.

The UH Biomedical Engineering Society is a highly active organization. Members have opportunities to explore fascinating technology in medicine through talks by experts in the field, and the organization provides an environment for social interaction and exchange of ideas between all levels of undergraduate students, graduate students and faculty.

Learn more at www.bme.uh.edu/links/bme

FOR MORE INFORMATION

Biomedical Engineering Department: www.bme.uh.edu
Undergraduate Program: www.bme.uh.edu/undergraduate
Email: gspillers@uh.edu

The University of Houston is conveniently located five miles from the Texas Medical Center (TMC), the largest medical complex in the world. Research opportunities for biomedical engineering undergraduates are endless, and all students are strongly encouraged to get hands-on experience working in either a research lab on campus, at TMC or at a local biotech company.

Learn more at www.bme.uh.edu/research/undergrad

Learn more at www.egr.uh.edu/academics/scholarships

Learn more at www.bme.uh.edu/links/bme

Learn more at www.egr.uh.edu/academics/scholarships

Learn more at www.bme.uh.edu/research/undergrad
Bringing NEW ENERGY to Chemistry.

CHEMICAL & BIOMOLECULAR ENGINEERING

WHAT IS CHEMICAL ENGINEERING?

Chemical engineers are taught to link chemistry and engineering in order to produce substances or products that improve people’s lives. Chemical engineers develop techniques and processes to convert raw materials into products such as plastics, food, pharmaceuticals, petroleum products and other consumer goods while maximizing efficiency and minimizing risk and environmental impact.

FAST FACTS

- 548 Total Undergrad Students in Department
- 19 Total Faculty in ChBE Department
- $68,360 Average Starting Salary with B.S. in Chemical Engineering
- $112,430 Average Annual Salary in Chemical Engineering

CAREERS IN CHEMICAL ENGINEERING

Chemical engineering careers span chemicals manufacturing, refining, advanced materials, resource management, medicine, pharmaceuticals development and production, pollution control and environmental remediation.

Career opportunities in chemical engineering are excellent – especially in the city of Houston, the Energy Capital of the World. A 2018 salary survey produced by PayScale.com found that new chemical engineering graduates earned an average starting salary of $68,360.

Career opportunities for chemical engineers in Houston tend to be better than the national average. Almost half of Houston’s economy is driven by energy, with more than 3,600 energy-related companies based in Houston. All of the major oil and gas companies have operations in Houston, and the region boasts almost 40,000 jobs just in oil and gas extraction, representing one-third of such positions worldwide!

WHY EARN YOUR CHEMICAL & BIOMOLECULAR ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

The chemical and biomolecular engineering department at the University of Houston Cullen College of Engineering is one of the top-ranked chemical engineering programs in the nation. Chemical engineering undergraduates are prepared to meet or exceed the expectations of employers, particularly in the energy and chemical industries. Many graduates of the chemical engineering program are currently employed in leading positions in industry, academia and government across the Houston region and around the world.

Conveniently located in the Energy Capital of the World, students have direct access to internships and full-time positions throughout the region and are strongly encouraged to pursue professional opportunities while they are still in school.

LEARN MORE AT WWW.CHEE.UH.EDU/UNDERGRADUATE/DEGREE

SCHOLARSHIPS

Departmental scholarships are offered from the LuBridzol Foundation, Bayer, BP America, Chevron, ConocoPhillips, ExxonMobil, Founders/Worley, Scheller, Tiller and Fleischer Scholarship Funds. Merit-based scholarships are also awarded by the Cullen College of Engineering.

Scholarships are also offered by the University of Houston Office of Scholarships and Financial Aid. Additionally, the university’s co-op program allows students to receive career training while financing their education.

LEARN MORE AT WWW.CHEE.UH.EDU/UNDERGRADUATE/SCHOLARSHIPS/CHBE-DEPARTMENT

RESEARCH

At the University of Houston Cullen College of Engineering, there’s no shortage of research for chemical engineers. The University of Houston is home to some of the world’s most advanced energy research, touching on areas such as sustainability, alternatives, grid power, solar energy, wind energy and superconductivity. Moreover, the university has a 34-acre campus, called Energy Research Park, dedicated solely to bringing industry and academia together to conduct energy research in clean engines and fuels, wind energy, superconductivity and petroleum engineering. All undergraduate students in the chemical engineering department are strongly encouraged to get hands-on research experience in one of the many faculty research labs, both on campus while they are pursuing their degrees.

LEARN MORE AT WWW.CHEE.UH.EDU/RESEARCH/OVERVIEW

STUDENT ORGANIZATIONS

Students are encouraged to join academic and professional organizations to build leadership, communication and networking skills. Members of student organizations receive career guidance from engineering professionals and participate in activities that promote engineering.

Chemical engineering organizations include the American Institute of Chemical Engineers (AIChE) and the Society of Petroleum Engineers (SPE).

LEARN MORE AT WWW.CHEE.UH.EDU/PEOPLE/STUDENT_ORGANIZATIONS

FOR MORE INFORMATION

UH Department of Chemical and Biomolecular Engineering: www.chee.uh.edu
Undergraduate Program: www.chee.uh.edu/undergraduate/overview
Email: vellison@central.uh.edu

UH Department of Chemical and Biomolecular Engineering (Engineering Building I): 4706 Calhoun Rd., Suite 322 | Houston, Texas 77204-4004 | 713-743-4300
If You Can DREAM IT
We Can BUILD IT.

CIVIL & ENVIRONMENTAL ENGINEERING

WHAT IS CIVIL ENGINEERING?

Civil engineering is the professional discipline that focuses on the development and maintenance of both man-made and natural infrastructure. Civil engineers produce the facilities on which modern life depends, including roads, bridges, buildings, offshore structures, airports and levees, as well as the infrastructure required for the supply of clean water.

Civil engineering includes a multitude of sub-disciplines including environmental engineering, structural engineering, geotechnical engineering, materials engineering, water resources engineering, geosensing systems engineering and more. Civil engineering offers a very wide variety of opportunities!

FAST FACTS

- 264 Total Undergrad Students in Department
- 21 Total Faculty in CEE Department
- $58,838 Average Starting Salary with B.S. in Civil Engineering
- $91,790 Average Annual Salary in Civil Engineering

CAREERS IN CIVIL ENGINEERING

Civil engineers find employment opportunities in both the private and public sectors. Career opportunities in civil engineering are excellent – especially in Houston, the Energy Capital of the World. Employment for civil engineers is expected to increase significantly, spurred by ongoing emphasis to improve our nation’s infrastructure.

A 2018 salary survey produced by Payscale.com found that new civil engineering graduates earned an average starting salary of $58,838.

WHY EARN YOUR CIVIL ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

ACADEMICS

The civil engineering undergraduate program at the University of Houston Cullen College of Engineering is rigorous and hands-on. The program is designed to offer undergraduate students a broad-based education in the freshman and sophomore years and a more focused education in the junior and senior years. The jobs available in the field of civil and environmental engineering are diverse, so a broad base is provided to prepare graduates for a variety of positions. Luckily, the civil and environmental engineering department has one of the most loyal and active alumni bases in the entire college, with UH civil engineering graduates employed in top positions throughout the region – so landing your dream job, internship, co-op or fellowship shouldn’t be too difficult!

Learn more at www.cive.uh.edu/programs/undergraduate

RESEARCH

The civil engineering undergraduate program at the University of Houston Cullen College of Engineering is well known for its research, and faculty in the department have expertise in environmental engineering, geotechnical and materials engineering, structural engineering, oceans and water resources engineering and geosensing systems engineering. The civil and environmental engineering department is also home to the NSF-funded National Center for Airborne Laser Mapping (NCALM). Undergraduate students have the opportunity to become involved in the fascinating research being conducted by faculty members and graduate students in the department.

Learn more at www.cive.uh.edu/research/overview

SCHOLARSHIPS

Departmental scholarships for undergraduate students include those endowed by or in memory of M.P. “Pat” Anderson, Charles A. Beyer Houston Contractors Association, Cobb/Fendley, Vishnu and Rohini Dvivirha, IFI Educational Trust Charles J. Berkel, BGE/Ronald L. Mullinax, R. P. Doss Houston Contractors Association, Jesse G. Gonzalez, Houston Chapter of the American Concrete Institute, Klotz Associates, Herbert and Faye Lum, Structural Consulting Company/Mon tested, Jimmie A. Schindewolf, Charles J. Tamborino, Stanford Daniel Ward, Jr., and others. Scholarships are also awarded by the Cullen College of Engineering and by the University of Houston Office of Scholarships and Financial Aid. Additionally, the University’s internship program allows students to receive career training while helping to finance their education.

Learn more at www.cive.uh.edu/programs/undergraduate/scholarships

STUDENT ORGANIZATIONS

Students are encouraged to join academic and professional organizations to build leadership, communication and networking skills. Members of student organizations receive career guidance from engineering professionals and participate in activities that promote engineering.

The civil and environmental engineering department has student chapters of the American Society of Civil Engineers (ASCE) and American Concrete Institute (ACI). The UH ASCE chapter is very active and its members are engaged in the Texas/Mexico Regional Concrete Canoe Competition and the Daniel W. Mead Ethics Paper Competition each year. Learn more at www.cive.uh.edu/programs/undergraduate/student-activities

FOR MORE INFORMATION

UH Department of Civil and Environmental Engineering: www.cive.uh.edu
Undergraduate Program: www.cive.uh.edu/programs/undergraduate
Email: cive@egr.uh.edu

UH Department of Civil and Environmental Engineering
Engineering Building 1 | 4736 Calhoun Rd., Suite N107
Houston, Texas 77204-4003 | 713.743.4250
UH ENGINEERING      39

What Is Electrical & Computer Engineering?

Electrical engineering is a very broad field – it encompasses virtually anything you can think of that requires electric power to operate! As an electrical engineering student at UH, you will get a broad sampling of courses from several areas involving electrical and electronic systems, but in your last two years you will choose from among six specialty areas: electronics; nanotechnology; power and alternative energy; computers and embedded systems; electromagnetics; and signals, systems and communication.

Computer engineering combines electrical engineering and computer science. It is about the interface between machines (hardware) and computers (software).

Why Earn Your Electrical & Computer Engineering Degree at the University of Houston?

Faculty and staff in the electrical and computer engineering department at the UH-Cullen College of Engineering take pride in their commitment to undergraduate education. Students are treated as individuals and have access to faculty advisors throughout their undergraduate career. Small classes are the rule, especially at the junior and senior level. From the introductory level to the more advanced courses, teaching is done primarily by full-time faculty members, many of whom have received prestigious teaching awards. Students will receive real-world, hands-on training in the field to introduce them to electrical and computer engineering in an exciting and relevant way. In the senior design courses, students work on real-world problems with faculty and industry engineers guiding them. For those desiring additional learning opportunities, special workshops are available in some of the required freshman and sophomore courses.

FAST FACTS

588 Total Undergrad Students in Department
37 Total Faculty in ECE Department
$72,629 Average Starting Salary with B.S. in Computer Engineering
$67,404 Average Starting Salary with B.S. in Electrical Engineering
$119,650 Average Annual Salary in Electrical and Computer Engineering

CAREERS IN ELECTRICAL & COMPUTER ENGINEERING

Career opportunities for both electrical and computer engineers are fantastic across all specialties. A 2018 salary survey produced by Payscale.com found that new electrical engineering and computer engineering graduates earned an average starting salary of $67,404 and $72,629, respectively. However, starting salaries for UH electrical and computer engineers are above the annual national average. Alumni of the electrical and computer engineering department work locally and overseas for Halliburton, Schlumberger, Hewlett Packard, CenterPoint Energy, Burns & McDonnell, as well as other telecommunications, construction and petrochemical companies.

RESEARCH

The electrical and computer engineering department provides numerous opportunities to undergraduate students interested in doing research. Many professors hire students to work in their labs, and the university offers stipends on a competitive basis for both summer and regular semester research projects. There is an amazing array of research going on inside of the department’s labs, so students can get exposure to cutting edge technologies and research tools. Learn more at www.ece.uh.edu/research/undergraduate

SCHOLARSHIPS ★★

Many scholarships are available to incoming and current undergraduate students in the electrical and computer engineering department. Some are administered by the Office of Scholarships and Financial Aid and are open to all University of Houston students. The Cullen College of Engineering also offers merit-based scholarships. Additionally, the university’s co-op program allows students to receive career training while financing their education. Learn more at www.ece.uh.edu/undergraduate/scholarships-careers

STUDENT ORGANIZATIONS ★★★

Electrical and computer engineering students at UH like to get involved! We encourage you to join academic and professional organizations like the student chapter of the Institute of Electrical and Electronics Engineers (IEEE), Society of Women Engineers (SWE), National Society of Black Engineers (NSBE) and many others. Student organizations help you build leadership, communication and networking skills. Members of student organizations receive career guidance from engineering professionals and participate in activities that promote engineering. IEEE events include the Region 5 Robotics Competition and the annual IEEE Chili Cook-Off. Learn more at www.ece.uh.edu/people/students

FOR MORE INFORMATION

UH Department of Electrical and Computer Engineering: www.ece.uh.edu
Undergraduate Program: www.ece.uh.edu/undergraduate/general-information
Email: ECEugrad@central.uh.edu

UH Department of Electrical and Computer Engineering Building | 4726 Calhoun Rd., Suite N308
Houston, Texas 77004-4005 | 713.743.4400
CAREERS IN INDUSTRIAL ENGINEERING

Industrial engineers are trained to work virtually anywhere in industry to improve system performance. Specific industries include manufacturing, logistics and transportation, supply chain, energy, oil and gas, healthcare, retail, hotel chains, airlines, construction companies, banks, social services and government.

Examples of industrial engineering projects include:

• Making wait times shorter for rides at Walt Disney World to increase guest satisfaction
• Optimizing the nursing staff levels at a hospital to improve patient care
• Streamlining the manufacturing processes of automobiles to make cars more affordable
• Simplifying a supply chain for UPS so deliveries can be made more expediently
• Leading a team of engineers to design new equipment for NASA
• Improving the quality of your favorite candy bar at Hershey’s to increase customer satisfaction
• Performing energy audits to enable more companies to go green
• Consulting and training people to use the latest technology to improve operations
• Designing safer and more ergonomic ways to work on the factory floor at a manufacturing plant

A 2018 salary survey produced by Payscale.com found that new industrial/manufacturing engineering graduates earned an average starting salary of $62,063.

WHY EARN YOUR INDUSTRIAL ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

The industrial engineering department at the University of Houston Cullen College of Engineering is highly-ranked, consisting of top-performing students and world-class faculty and researchers. Undergraduate students in the industrial engineering department are taught by professors who are actively conducting research in the areas of healthcare and medical decisionmaking, homeland and port security, energy, reliability and maintenance, logistics and transportation, supply chains and manufacturing. Additionally, undergraduate students are exposed to professional and research opportunities throughout their education.

Houston is home to the second-most Fortune 500 headquarters of all major U.S. cities. This means that, just minutes down the road, your new career beckons! The department recently launched the first 85th/MBA joint degree, providing IE students the opportunity to get their industrial engineering bachelor’s as well as a master of business administration while saving 24 credit hours of course work.

Learn more at www.ie.uh.edu/undergraduate-program/overview

FOR MORE INFORMATION

UH Department of Industrial Engineering: www.ie.uh.edu
Undergraduate Program: www.ie.uh.edu/undergraduate-program/overview
Email: ajlewis6@central.uh.edu

The industrial engineering department at the University of Houston Cullen College of Engineering places a huge emphasis on undergraduate research, encouraging all undergraduate students to get involved with faculty-led research projects or Capstone design projects before they graduate. With an incredible array of industrial engineering research taking place inside of the engineering buildings, students have unique access to some of the world’s most cutting-edge technological research and discoveries – so you have no excuse not to get involved!

Learn more at www.uh.edu/research/overview

SCHOLARSHIPS ★

Industrial engineering students can apply for the Sam Scharff Scholarship, Melody Under-Porter Scholarship, Durga and Sudha Agrawal Endowment, Bh and Sunita Agrawal Scholarship, Hari and Anjali Agrawal Scholarship, Charles E. Donaghey Scholarship, Victor Zaloom Scholarship, Scott T. Paige Matching Scholarship, Piping Technology Scholarship, and others. Merit-based scholarships are also awarded by the Cullen College of Engineering.

Scholarships are also offered by the University of Houston Office of Scholarships and Financial Aid. Additionally, the university’s co-op program allows students to receive career training while financing their education.

Learn more at www.ie.uh.edu/undergraduate-program/scholarships

STUDENT ORGANIZATIONS ★

Students are encouraged to join academic and professional organizations to build leadership, communication and networking skills. Members of student organizations receive career guidance from engineering professionals and participate in activities that promote engineering.

Student organizations include Alpha Pi Mu, an industrial engineering national honor society and the Institute of Industrial Engineers (IIIE).

Learn more at www.ie.uh.edu/people/student Organizations
Mechanical engineers are the jack-of-all-trades within the engineering profession. Just about everything you can think of involves a mechanical process, and anything with a mechanical process is the business of a mechanical engineer. These engineers work in nearly every industry you can imagine, addressing problems in such areas as energy conversion, aerospace, design and control of processes.

Recent B.S. mechanical engineering alumni report salaries closer to $74,000. The American Society of Mechanical Engineers (ASME) reports median mid-career salaries for mechanical engineers are $91,500.

WHAT IS MECHANICAL ENGINEERING?

Mechanical engineers are the jack-of-all-trades within the engineering profession. Just about everything you can think of involves a mechanical process, and anything with a mechanical process is the business of a mechanical engineer. These engineers work in nearly every industry you can imagine, addressing problems in such areas as energy conversion, aerospace, design and control of processes.

CAREERS IN MECHANICAL ENGINEERING

Career opportunities in mechanical engineering are excellent – especially in the city of Houston, the Energy Capital of the World. A 2019 salary survey produced by Payscale.com found that new mechanical engineering graduates earned an average starting salary of $64,695. Recent B.S. mechanical engineering alumni report salaries closer to $74,000. The American Society of Mechanical Engineers (ASME) reports median mid-career salaries for mechanical engineers at $94,500.

FAST FACTS

964
Total Undergrad Students in Department

32
Total Faculty in ME Department

$64,695
Average Starting Salary with B.S. in Mechanical Engineering

$91,500
Average Annual Salary in Mechanical Engineering

WHY EARN YOUR MECHANICAL ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

The mechanical engineering department at the University of Houston Cullen College of Engineering is top-ranked, attracting the highest quality and hardest working students, faculty members and researchers. Undergraduate students in the mechanical engineering department are taught to connect the dots between classroom lessons and their real-world applications through project-based learning, hands-on laboratory research, Capstone design projects and seminars led by industry professionals. The department’s curriculum provides students with the opportunity to learn how to think creatively and logically, and how to use new-found knowledge to address complex problems. Throughout the curriculum, but particularly in the three-course design sequence, students are challenged with creative design problems. To solve these problems, students use skills learned from classes in mechanics of materials, experimental methods, engineering analysis, controls, materials science, thermodynamics, fluid mechanics and heat transfer.

SCHOLARSHIPS

Scholarships are offered through the mechanical engineering department for qualified, top-performing students. Merit-based scholarships are also awarded by the Cullen College of Engineering. Additional scholarships are offered by the University of Houston Office of Scholarships and Financial Aid. Also, the university’s co-op program allows students to receive career training while financing their education.

RESEARCH

The mechanical engineering department at the University of Houston Cullen College of Engineering places great emphasis on undergraduate research, encouraging all undergraduate students to get involved with faculty-led research projects or Capstone design projects before they graduate. Mechanical engineering faculty members are incredibly active and productive researchers, focusing on research projects that are motivated by the challenges of the 21st century and grounded in the fundamentals of the mechanical sciences. With so many exciting research opportunities in the mechanical engineering department – touching on areas including applied mechanics, controls and dynamical systems, biomedical engineering, design of mechanical systems, materials engineering, and thermal and fluid sciences – students are guaranteed to get hands-on research experience before they graduate.

FOR MORE INFORMATION

UH Department of Mechanical Engineering: www.me.uh.edu
Undergraduate Program: www.me.uh.edu/undergraduate/overview
Email: yysbi@central.uh.edu

UH Department of Mechanical Engineering | Engineering Building 1 4726 Calhoun Rd., Suite N207 | Houston, Texas 77204-4006 | 713.743.4500
CAREERS IN PETROLEUM ENGINEERING

Career opportunities for petroleum engineers are fantastic, especially in the city of Houston, the Energy Capital of the World. Employment opportunities are widely available with the major integrated international energy companies and service providers, or the many intermediate and independent oil and gas producers, drilling companies, special equipment companies and industry support companies. Employment can be domestic or international, onshore or offshore, and can involve the most sophisticated intelligent systems and technologies. Early on, it can involve specific technical and operational assignments, and later, engineering and business leadership positions. Petroleum engineers with appropriate experience and knowledge often start their own oil and gas companies.

A 2018 salary survey produced by Payscale.com found that new petroleum engineering graduates earned an average starting salary of $59,094.

Why Earn Your Petroleum Engineering Degree at the University of Houston?

ACADEMICS

The vision for the UH Cullen College of Engineering’s petroleum engineering department is to be the center of world-class petroleum engineering education, research and service in the city of Houston, the center of the world’s petroleum industry. Petroleum engineering undergraduate students are taught by leading researchers and industry professionals. Students are prepared to address the challenges of the world’s energy needs responsibly, to exceed the evolving expectations of employers in the petroleum and energy industries, to sustain industry leading skills and to be leaders in industry, academia and government.

Learn more at www.petro.uh.edu/undergraduate/overview

INTERNSHIPS

Almost half of Houston’s economy is driven by energy, with more than 3,600 energy-related companies based in Houston. All of the major oil and gas companies have operations in Houston, and the region boasts almost 40,000 jobs just in oil and gas extraction, representing one-third of such positions worldwide! The petroleum engineering department at UH is located just a few miles down the road from the world’s leading energy companies, so you are worldwide! The petroleum engineering department at UH is located just a few miles down the road from the world’s leading energy companies, so you are across the street from the world’s leading energy companies, so you are a stone’s throw away from the world’s leading energy companies, so you are a stone’s throw away from the world’s leading energy companies, so you are a stone’s throw away from the world’s leading energy companies, so you are a stone’s throw away from the world’s leading energy companies, so you are a stone’s throw away from the world’s leading energy companies, so you are a stone’s throw away from the world’s leading energy companies, so you are.

Internships can be summer-based or can involve 10-20 hours per week throughout the year while taking classes, which is difficult at universities that aren’t near the industry. However, UH is located just a few miles down the road from the world’s leading energy companies, so you are.

Learn more at www.petro.uh.edu/undergraduate/internships

FAST FACTS

532
Total Undergrad Students in Department

13
Total Faculty in PE Department

$93,094
Average Starting Salary with B.S. in Petroleum Engineering

$154,780
Average Annual Salary in Petroleum Engineering

RESEARCH

At the University of Houston Cullen College of Engineering, there’s no shortage of research for petroleum engineering students. The University of Houston is home to some of the world’s most advanced energy research in areas such as sustainability, alternatives, grid power, solar energy, wind energy and superconductivity. Moreover, the university has a 24-acre campus, called Energy Research Park, dedicated solely to bringing industry and academia together to conduct energy research in clean engines and fuels, wind energy, superconductivity and petroleum engineering. All undergraduate students in engineering are strongly encouraged to get hands-on research experience in one of the many faculty research groups, labs or centers on campus while they are pursuing their degrees.

Learn more at www.petro.uh.edu/undergraduate/research_resources

SCHOLARSHIPS

Departmental scholarships are offered through the petroleum engineering program for qualified, top-performing students. Merit-based scholarships are also awarded by the Cullen College of Engineering.

Learn more at www.petro.uh.edu/undergraduate/scholarship

STUDENT ORGANIZATIONS

Students are encouraged to join academic and professional organizations to build leadership, communication and networking skills. Members of student organizations receive career guidance from engineering professionals and participate in activities that promote engineering.

Petroleum engineering organizations include the Society of Petroleum Engineers (SPE) and the American Association of Drilling Engineers (AADE).

Learn more at www.petro.uh.edu/people/student-organizations

FOR MORE INFORMATION

UH Department of Petroleum Engineering | www.petro.uh.edu
Undergraduate Program: www.petro.uh.edu/undergraduate/overview
Email: mastrum@uh.edu or tajohnson@uh.edu

UH Petroleum Engineering | UH Energy Research Park
5200 Gulf Fwy, Blvd. 9 Rm. 219 | Houston, Texas 77004-0945

UH Petroleum Engineering | UH Energy Research Park
5200 Gulf Fwy, Blvd. 9 Rm. 219 | Houston, Texas 77004-0945

45
FINANCIAL AID

The University of Houston offers several different kinds of financial assistance, ranging from scholarships that are awarded on the basis of academic merit to loans awarded on the basis of financial need. A typical financial aid package includes more than one type of aid.

WHAT TYPES OF FINANCIAL AID ARE AVAILABLE?

SCHOLARSHIPS
Merit-based awards that you do not have to repay.

GRANTS
Need-based awards that you do not have to repay.

LOANS
Need-based, federally funded loans that you repay at below-market interest rates, plus private bank loans if you don’t qualify for federal loans.

WORK-STUDY
Need-based job placements on campus.

FINANCIAL INCENTIVES
Financial incentives are special programs available at the University of Houston that help students balance course hours and the cost of tuition over time while still encouraging them to make the most of their educational experience.

SUMMER AID
Available if you are enrolled at least half-time and have remaining aid that was NOT used during the fall and spring semesters.

SPRING AID
Available if you are enrolled at least half-time and have remaining aid that was NOT used during the fall semester.

Visit uh.edu/typesofaid for more information on financing your education.

Please note that all students receiving financial aid will need to apply and be approved on an annual basis to receive financial assistance. In order to be eligible for federal funding, you must be a fully admitted degree-seeking student.

FINANCING YOUR EDUCATION

ESTIMATED ANNUAL COSTS FOR 2019-2020

<table>
<thead>
<tr>
<th></th>
<th>Texas Resident</th>
<th>Non-Resident</th>
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<tbody>
<tr>
<td>Tuition</td>
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<td>$25,338</td>
</tr>
<tr>
<td>Required fees</td>
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<td>$1,002</td>
</tr>
<tr>
<td>Total*</td>
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</tr>
</tbody>
</table>

*Tuition and fees are based on 15 hours per semester for undergraduate enrollment

FINANCIAL AID

To apply for federal financial aid, file the Free Application for Federal Student Aid (FAFSA) at fafsa.gov (school code: 003652). The priority submission deadline is March 15. Our helpful and knowledgeable financial aid staff can help you pursue these options:

- Grants
- Work-study and on-campus student jobs
- Loans (student and parent)

Visit uh.edu/typesofaid for more information on financing your education.

UHi4

UHi4 provides a comprehensive plan for on-time graduation in four years for incoming freshmen and select transfer students. You’ll receive academic maps and be offered fixed tuition rates to help you achieve your academic goals.

Read more about this program at uh.edu/provost/UHi4
As a new student, tuition numbers can be scary. But with a wide array of scholarship and financial aid opportunities available at UH, college can truly become affordable.

The University of Houston and the Cullen College of Engineering offer many scholarship opportunities, and encourage you to also explore outside scholarship options on websites like FastWeb (www.fastweb.com), StudentScholarships.org, Collegeboard (www.collegeboard.org), Hispanic College Fund (hsf.net/en/scholarships), The National Data Base Scholarships (www.free-4u.com) and US College Scholarships and Grants (www.scholarshipsandgrants.us).

Learn more and apply for scholarships at www.uh.edu/financial/undergraduate/types-aid/scholarships

CULLEN COLLEGE OF ENGINEERING SCHOLARSHIPS

After two semesters of classes at UH, Cullen College students may apply for college-specific scholarships from the Dean's Office. These scholarships are competitive and generally require a cumulative and major GPA of 3.0. In addition, several endowments support scholarship awards for currently enrolled Cullen College students annually.

The Cullen College also offers department-specific scholarships, as well as scholarships supported by the Engineering Alumni Association and Society of Iranian American Women for Education. New scholarships are also offered throughout the year.

UNDERGRADUATE RESEARCH SCHOLARSHIPS

The University of Houston encourages undergraduates to participate in research with a faculty mentor. In addition to programs offered through various departments and colleges, two programs currently award a stipend for qualified students from all majors to engage in a mentored research experience.

STATE-FUNDED SCHOLARSHIPS

The state of Texas provides funding for multiple scholarships available to outstanding students attending Texas colleges and universities. Some of the scholarships will require students to maintain a certain GPA or be part of a specific degree program. Additionally, most of the scholarships require the student to be a Texas resident.

UNIVERSITY-FUNDED SCHOLARSHIPS

The University funds several scholarships for incoming freshmen with awards ranging from $500 to $8,500 per year. Scholarship recipients are selected on the basis of academic credentials as measured by high school performance and standardized test scores. Award criteria vary from one scholarship to another.

UNIVERSITY ENDOWED SCHOLARSHIPS

University endowed scholarships are available on an annual basis based on collaborations between UH and outside donors, which can vary from private donors to companies like NASA, CenterPoint, Reliant Energy and the Houston Office Leasing Brokers Association. Scholarship opportunities can change every year, and many are designed for students interested in particular areas like energy or aerospace – perfect for engineering majors!

PRIVATELY FUNDED SCHOLARSHIPS

Each year, a number of foundations, corporations and individuals provide funding for UH scholarships. Some of these privately funded scholarships are designed to support students in a particular discipline or from a specific heritage or geographic region; others are open to students of any major or background. Offerings change often according to availability of funds and the time of the school year.

OUT-OF-STATE STUDENTS

Want to pay in-state tuition but live out-of-state? You may qualify for an out-of-state tuition waiver if you are a: • Nonresident of the state of Texas AND • Recipient of eligible UH or individual college scholarships totaling more than $1,000 annually

The waiver allows you to pay tuition at the same rate as a Texas resident – a savings of thousands per semester. Waivers are limited, so we encourage you to apply as early as possible.

NOTE:

State law requires that each student identify any relation to a current University of Houston Board of Regent member. A student who is related to a current member of the governing board of that institution is prohibited from receiving scholarships unless the scholarship is awarded exclusively based on academic merit or is an athletic scholarship.
**MINIMUM TEST SCORES**

<table>
<thead>
<tr>
<th>CLASS RANK</th>
<th>ORIGINAL SAT (PRIOR TO MARCH 2016)</th>
<th>REDESIGNED SAT (SINCE MARCH 2016)</th>
<th>ACT COMPOSITE AND ACT ENGLISH</th>
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<tbody>
<tr>
<td>Top 25%</td>
<td>1200 and 570</td>
<td>1270/630</td>
<td>26 and 24</td>
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<tr>
<td>26 — 50%</td>
<td>1260 and 570</td>
<td>1320/630</td>
<td>28 and 24</td>
</tr>
<tr>
<td>51 — 75%</td>
<td>1340 and 570</td>
<td>1400/630</td>
<td>30 and 24</td>
</tr>
<tr>
<td>All Others</td>
<td>1370 and 570</td>
<td>1420/630</td>
<td>31 and 24</td>
</tr>
</tbody>
</table>

**RECOMMENDED HIGH SCHOOL COURSES FOR ENGINEERING MAJORS:**

- **ENGLISH:** 4
- **SOCIAL STUDIES:** 3
- **MATHEMATICS:** 4 (including 2 credits in algebra, 1 in geometry and ½ in either elementary analysis or analytical geometry)
- **Chemistry:** 1331/1111, 1332/1112, 1372/1117
- **Physics:** 1321/1121 and 1322/1122
- **Biology:** 1341/1141 and 1342/1142
- **Economics:** 1361/1161 and 1362/1162
- **Geology:** 1330/1130
- **English Composition:** 1361/1161 and 1362/1162

**ADMISSIONS REQUIREMENTS FOR THE HONORS COLLEGE**

To complete your Honors College application:

- Check the Honors box on the ApplyTexas (www.applytexas.org) application OR complete the online application at TheHonorsCollege.com
- Email your academic essay sample to honors@uh.edu
- Email your list of interests and activities to honors@uh.edu

Honors uses the transcripts and test scores submitted with your UH application for admission decisions. Learn more about how to apply to the Honors College at www.uh.edu/honors/students/prospective-students/honors-admissions

**TRANFER REQUIREMENTS**

<table>
<thead>
<tr>
<th>Transfer Requirements</th>
<th>Required GPA</th>
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<tbody>
<tr>
<td>All college-level work attempted</td>
<td>3.0</td>
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<tr>
<td>All calculus courses and math courses with calculus prerequisites attempted</td>
<td>3.0</td>
</tr>
<tr>
<td>All college level science courses* required by any engineering major attempted</td>
<td>3.0</td>
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<tr>
<td>All college-level English courses attempted</td>
<td>2.5</td>
</tr>
<tr>
<td>All college-level engineering courses attempted</td>
<td>3.0</td>
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</tbody>
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* Biology 1361/1161 and 1362/1162, Chemistry 1331/1111, 1332/1112, 1321/1121, 3211, 3311, and 3312, Geology 1330/1130, Physics 1321/1121 and 1322/1122.

**THE APPLICATION.**

You must apply online using the ApplyTexas Application (www.applytexas.org).

**THE $75 APPLICATION FEE.**

Submit your application fee by credit card on the ApplyTexas website or mail a check or money order to the Office of Admissions.

**YOUR HIGH SCHOOL TRANSCRIPT.**

We need your official transcript with your class rank, so ask your high school registrar to send it (electronically or in a sealed envelope) to UH. Fax and photocopies are not accepted.

**YOUR TEST SCORES.**

Official SAT or ACT scores should be sent directly to UH from the testing agency. SAT and ACT policy allows students to send test scores to several colleges. Scores can also be sent through The College Board (www.collegeboard.org; code 6870) or ACT (www.act.org; code 4236).

Please note that your official test scores must have been taken within the last five years.

**Please visit uh.edu/admissions/apply for more information about freshman, transfer and international admissions.**

**DID YOU KNOW?**

Students pursuing an Associate of Science in Engineering Science degree at Houston Community College, San Jacinto College or Lone Star College who meet UH Engineering’s admission requirements have a seamless transfer option into UH. Learn more at www.egr.uh.edu/academics/community-college-programs
The engineering curriculum at UH can be rigorous at times. Did you know a great way to blow off steam, reduce stress and increase focus is cardiovascular activity? Cardio increases blood flow, releases endorphins and promotes heart health. As a student at UH, you’ll be granted full use of the Campus Recreation and Wellness Center, so go sweat your stress away!

If you’re living on campus, you’ll be surrounded by excitement 24/7, but you’ll need to remember to catch some zzz’s! According to the National Institutes of Health, the average adult needs 7 to 8 hours of sleep a night. Any less and you may not be functioning at your best, and trust us, you’ll need all your brainpower to ace your engineering courses!

Technology is present in every aspect of our lives. Having a reliable laptop will not only come in handy in classes and with homework, but social media can keep you connected to your friends and family, whether they’re across campus or across the world. (However, if you don’t have the money to invest in a high-powered laptop, it’s not the end of the world! Laptop computers can be checked out of the M.D. Anderson Library whenever you need one!)

Engineers are changing the world every day. What drives you to join this elite group of builders, makers and scientists? Is it a famous engineer? A family member? A feat of science? Find what inspires you and remember it. It will help you power through your classes and find a way to make your mark on the world.

Did you know UH is one of the most diverse college campuses in the country? In the Cullen College alone, we have professors and students from all over the world! Surprise them by saying “Hi” in their native language — you never know what friends you might make!

FRESHMAN STUDENT CHECKLIST

BEFORE YOU APPLY:

1. Schedule a campus visit, attend one of our special events for prospective students, or simply get in touch with us! Learn more at www.egr.uh.edu/students or www.uh.edu/campusvisits
2. Research available engineering majors at www.egr.uh.edu/academics/undergraduate-programs
3. Check admissions requirements and deadlines. Speak with a freshman admissions counselor if you have any questions. Locate your counselor at www.uh.edu/freshmancounselor

ONCE ADMITTED:

1. If you haven’t already started the financial aid process, complete the FAFSA. (See “Financing Your Education” on page 47 for more information!)
2. All new students are required to attend a New Student Orientation (NSO). Sign up for your NSO through your myUH portal.

COMFY SNEAKERS

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AN IMAGINATION

Part of being a great engineer is being open to new concepts, techniques and processes. To keep improving our world, a good engineer will constantly be imagining “What if?”

A LA T O P

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A GREAT PILLOW

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Engineers are changing the world every day. What drives you to join this elite group of builders, makers and scientists? Is it a famous engineer? A family member? A feat of science? Find what inspires you and remember it. It will help you power through your classes and find a way to make your mark on the world.

A GREAT TRANSLATOR APP

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YOU’RE IN! NOW WHAT?

COMING TO COLLEGE IS A BIG CHANGE.

You’ll fill out a lot of paperwork, make a lot of choices and face a lot of questions. Since it can be an overwhelming transition, we’ve created a checklist to help you bridge the gap between high school and college – in style!
UH is a designated Tier One Research Institution by the Carnegie Foundation for the Advancement of Teaching.

581 student organizations to join.

Over 2,500 on-campus jobs and internships available annually.

One of the most environmentally responsible universities in the nation (Princeton Review).

2nd most ethnically diverse university in the U.S. with students from 127 countries.

About 6,000 students live on campus in residence halls, apartments and townhouses.

Frontier Fiesta is a campus-wide carnival held every spring with live music, booths and a BBQ cook-off.

Brand new, state-of-the-art TDECU Football Stadium.

Over 40 research centers on campus.

Over 120 undergraduate majors and minors.

There is a Health Center located on campus where students, faculty and staff can go for medical attention on a walk-in basis.

The campus recreation and wellness center has a lounge area, rock wall, indoor and outdoor pools, and various courts and fields in addition to standard gym and fitness equipment.

Wear red for Cougar Red Fridays!

Over 120 undergraduate majors and minors.
Hoover has an NFL football team, NBA basketball team, MLB baseball team and MLS soccer team.

Over 6 million people live in the greater Houston metro area.

The annual Houston Livestock Show and Rodeo attracts more than a million visitors each spring.

The Texas Medical Center, located near downtown Houston, is the world’s largest medical center.

Houston is home to the 2nd most Fortune 500 companies of all major U.S. cities.

If Houston were an independent nation, it would rank as the world’s 30th largest economy.

The Port of Houston ranks 1st in the United States in international waterborne tonnage handled and 2nd in total cargo tonnage handled.

Houston is known as the “Energy Capital of the World,” and is home to more than 5,000 energy-related firms.

Houston’s Museum District offers a range of museums, galleries and art and cultural institutions.

More than 90 languages are spoken throughout the Houston area.

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