EXCELLENCE STARTS HERE
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Imagine engineering the future in the city of Houston, the Energy Capital of the World.
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.

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?

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To learn more about the different engineering professions and fields of study, turn to page 4.

GUADALUPE “LUPITA” VILLANUEVA
Senior, Petroleum Engineering

“I used to work as a babysitter while in high school. When I was getting ready to go to college, one of the ladies I worked for asked me what I’d be doing. I wasn’t too sure, my mom had mentioned business. The lady, who was a petroleum engineer, told me all about her work and experience, and how it gave her the opportunity to travel across the world. That really caught my attention and interested me.

It turned out that I really like petroleum engineering. I had the opportunity to go for an externship with ConocoPhillips last year and we went out to a drilling rig. It was a pretty eye-opening experience for me. I was able to see what I have been learning in my classes actually being applied in real life and see other people in the field and what they have accomplished in the industry.”

#CullenCollegeStories
CAREERS IN ENGINEERING

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. Continue reading for a breakdown of the different types of engineering majors and their average annual salaries.

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.

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.

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.

For example, some industrial engineers design the lines for rides at Disney theme parks to ensure park-goers are comfortable and entertained while they wait. Others design and organize warehouses so that products can be identified and delivered to consumers more efficiently.

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 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.

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.

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**ENGINEERING EMPLOYMENT OUTLOOK**

**2018 AVERAGE ANNUAL SALARIES IN ENGINEERING**

<table>
<thead>
<tr>
<th>Field</th>
<th>Median entry-level salary</th>
<th>Mean annual salary</th>
<th>Top 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace</td>
<td>$66,892</td>
<td>$117,100</td>
<td>$164,210</td>
</tr>
<tr>
<td>Biomedical</td>
<td>$60,582</td>
<td>$95,090</td>
<td>$144,350</td>
</tr>
<tr>
<td>Chemical &amp; Biomolecular</td>
<td>$65,469</td>
<td>$114,470</td>
<td>$169,770</td>
</tr>
<tr>
<td>Civil</td>
<td>$55,603</td>
<td>$93,720</td>
<td>$142,560</td>
</tr>
<tr>
<td>Computer</td>
<td>$70,470</td>
<td>$117,840</td>
<td>$172,630</td>
</tr>
<tr>
<td>Electrical</td>
<td>$64,489</td>
<td>$101,600</td>
<td>$153,240</td>
</tr>
<tr>
<td>Environmental</td>
<td>$55,288</td>
<td>$92,640</td>
<td>$137,090</td>
</tr>
<tr>
<td>Industrial/Manufacturing</td>
<td>$59,203</td>
<td>$91,630</td>
<td>$132,340</td>
</tr>
<tr>
<td>Materials</td>
<td>$65,027</td>
<td>$96,930</td>
<td>$148,110</td>
</tr>
<tr>
<td>Mechanical</td>
<td>$61,158</td>
<td>$92,800</td>
<td>$136,550</td>
</tr>
<tr>
<td>Petroleum</td>
<td>$86,524</td>
<td>$156,370</td>
<td>$250,000*</td>
</tr>
<tr>
<td>Subsea</td>
<td>$99,340</td>
<td>$106,347</td>
<td>$300,000*</td>
</tr>
</tbody>
</table>

1 Figures from payscale.com, June 2019
2 Figures from National Occupational Employment and Wage Estimates, U.S. Department of Labor, 2018

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**ENGINEERING JOB PROJECTIONS THROUGH 2023:**

11% GROWTH

249,908 new jobs will be available for engineers

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**TOP 10 OCCUPATIONS**

Growth forecast for engineering occupations:

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth</th>
<th>Jobs Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil engineers</td>
<td>+45,745</td>
<td></td>
</tr>
<tr>
<td>Mechanical engineers</td>
<td>+25,485</td>
<td></td>
</tr>
<tr>
<td>Architectural and engineering managers</td>
<td>+19,650</td>
<td></td>
</tr>
<tr>
<td>Industrial engineers</td>
<td>+17,660</td>
<td></td>
</tr>
<tr>
<td>Electrical engineers</td>
<td>+16,561</td>
<td></td>
</tr>
<tr>
<td>Electronics engineers*</td>
<td>+12,139</td>
<td></td>
</tr>
<tr>
<td>Petroleum engineers</td>
<td>+11,469</td>
<td></td>
</tr>
<tr>
<td>Computer hardware engineers</td>
<td>+10,799</td>
<td></td>
</tr>
<tr>
<td>Biomedical engineers</td>
<td>+10,542</td>
<td></td>
</tr>
<tr>
<td>Environmental engineers</td>
<td>+10,129</td>
<td></td>
</tr>
</tbody>
</table>

---

**TOP 10 LOCATIONS**

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

<table>
<thead>
<tr>
<th>Location</th>
<th>Demand</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

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**DID YOU KNOW?**

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)
CULLEN COLLEGE OF ENGINEERING

BY THE NUMBERS

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

30+ 🎫
ENGINEERING STUDENT ORGANIZATIONS

22:1 🧑‍🎓 fora
UNIVERSITY-WIDE STUDENT-TO-FACULTY RATIO

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

$111,920 💰
AVERAGE ANNUAL SALARY OF ENGINEERING PROFESSIONALS IN HOUSTON, TEXAS

$30M+ 🥇
IN RESEARCH EXPENDITURES

14 🏛️
NATIONAL ACADEMY OF ENGINEERING FACULTY MEMBERS

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

CULLEN COLLEGE 2019 FAST FACTS

139 FACULTY
1,151 GRADUATE STUDENTS
3,306 UNDERGRADUATE STUDENTS
DEGREES AWARDED
(BY 2018):
B.S. 714  M.S. 379  PH.D. 84  TOTAL 1,177
BRAGGING POINTS

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)

John-Muyiwa was born in Nigeria. Around the age of 13, he moved to America with his mother. He grew up in southwest Houston. “I didn’t really have the best opportunities growing up, and the opportunities I did have, I kind of figured things out by luck,” he said.

Reflecting on his early-life experiences and his years in Houston, led John-Muyiwa to choose petroleum engineering as a major. “I wanted to work in energy so I could impact people’s lives and help my community,” he said. “Something as basic as having reliable power can influence quality of life and how much can be achieved in a day or days, a lifetime.”

“UH has been really awesome for me, I definitely made the best decision to come here,” he said. “I have learned so much here and it’s opened up doors to so many other opportunities.”

AYOOLA "AJ" JOHN-MUYIWA
Senior, Petroleum Engineering

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#CullenCollegeStories
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!
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.

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!
YOUR CAMPUS LIFE*  
*AS TOLD BY UH ENGINEERING STUDENTS

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

M.D. ANDERSON LIBRARY
VOTED #1
BEST PLACE TO STUDY
“Especially the private rooms! They are basically sound proof and the boards are extremely useful when taking STEM classes.” - Rogelio F.

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

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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, Tandoor 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. Cafe 101 (milk teas and tapioca tea)

During the academic year, a rotation of local food trucks set up shop on campus

“Cheat Sheet”

BEST PLACES TO EAT
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#2 Fat Bao
#3 Calhoun’s Rooftop Bar and Grill
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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
OUR “PROMES” TO YOU...

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

HONORS ENGINEERING PROGRAM (HEP)

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

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!
DID YOU KNOW?

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.

MANAGE STRESS.

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.

UH HAS:

- 581 student organizations
- 46 fraternities and sororities
- 41 sports and intramurals
- 60+ group exercise classes (per week each semester)
- 21 outdoor adventure trips (each semester)
- 22 clinic/workshops (each semester)
- a 264,000-square-foot Campus Recreation and Wellness Center
- 21 outdoor adventure trips (each semester)
- 16 intercollegiate sports teams
- a 667-acre park-like campus, full of lush trees, gardens and lawns
- a stunning public art collection at the Blaffer Art Museum
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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!
LEARN ABOUT THE DIFFERENT DEPARTMENTS AND PROGRAMS AT THE UH CULLEN COLLEGE OF ENGINEERING AND CHOOSE HOW TO CUSTOMIZE THE RIGHT DEGREE FOR YOU.

LAURA MALCOTTI-SANCHEZ
Junior, Mechanical Engineering

“My parents are my biggest examples for never giving up,” she said. The family left Venezuela in 2005, after a volatile period of political turmoil that left her father unemployed. “I saw how my parents just kept working hard and looking for the best in all situations. They inspire me.”

As a high school student, Malcotti-Sanchez earned a Gold Award from the Girl Scouts of America in 2016 for her project addressing needs at the Casa Juan Diego Immigrant Shelter. She worked with more than 20 volunteers to renovate four residents’ rooms and paint a children’s mural. She also coordinated three workshops that taught volunteers how to sew curtains, handle repairs and paint.

That same year, she won a Tier One Scholarship to the University of Houston. She chose mechanical engineering because it combined her love of physics, calculus and troubleshooting. “I love mechanical engineering and I can’t see myself doing anything else,” she said.

#CullenCollegeStories

CUSTOMIZE YOUR DEGREE.
CHOOSE YOUR DESTINY.
WHAT IS BIOMEDICAL ENGINEERING?

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 2019 salary survey produced by PayScale.com found that new biomedical engineering graduates earned an average starting salary of $60,582.

FAST FACTS

- 236 Total Undergrad Students in Department
- 16 Total Faculty in BME Department
- $60,582 Average Starting Salary with B.S. in Biomedical Engineering
- $95,090 Average Annual Salary in Biomedical Engineering

ACADEMICS

Biomedical engineering undergraduate students in 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 four emphasis areas: biomedical imaging, bionanoscience, neural & rehabilitation engineering or pre-medicine. Prior to the beginning of your junior year, you will have the option of customizing your biomedical engineering curriculum by choosing one of four emphasis areas: biomedical imaging, bionanoscience, neural & rehabilitation engineering or pre-medicine. 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.

Academic coursework segues into the project design component with the start of the spring semester. Coursework in the fall semester includes “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.

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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

484 Total Undergrad Students in Department

20 Total Faculty in ChBE Department

$65,469 Average Starting Salary with B.S. in Chemical Engineering

$114,470 Average Annual Salary in Chemical Engineering

CHEMICAL & BIOMOLECULAR ENGINEERING

CAREERS IN CHEMICAL ENGINEERING

Chemical engineering careers span chemicals manufacturing, refining, advanced materials, resource management, medicine, pharmaceuticals, and more. Career opportunities in chemical 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 chemical engineering graduates earned an average starting salary of $65,469.

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 offers 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?

ACADEMICS

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

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 its own research park, called Energy Research Park, dedicated solely to bringing industry and academia together to conduct energy research in clean energy 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 groups, labs, or centers on campus while they are pursuing their degrees.

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

SCHOLARSHIPS

Departmental scholarships are offered from the Lubrizol Foundation, Bayer, BP America, Chevron, ConocoPhillips, ExxonMobil, Founders/Worley, Scheller, Tillier 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

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 | 4706 Calhoun Rd., Suite S222 | Houston, Texas 77204-4004 | 713.743.4300

484 Total Undergrad Students in Department

20 Total Faculty in ChBE Department

$65,469 Average Starting Salary with B.S. in Chemical Engineering

$114,470 Average Annual Salary in Chemical Engineering

CHEMICAL & BIOMOLECULAR 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 and materials engineering, structural engineering, geosensing systems engineering and more. Civil engineering offers a very wide variety of opportunities!

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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 2019 salary survey produced by Payscale.com found that new civil engineering graduates earned an average starting salary of $55,603.

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

FAST FACTS

278
Total Undergrad Students in Department

20
Total Faculty in CEE Department

$55,603
Average Starting Salary with B.S. in Civil Engineering

$93,720
Average Annual Salary in Civil Engineering

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 Dixetha, DFI 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/Montest, Jimmie A. Schindewolf, Charles J. Tamborinno, 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: cee@egr.uh.edu

UH Department of Civil and Environmental Engineering Engineering Building 1 | 4726 Calhoun Rd., Suite N107
Houston, Texas 77204-4003 | 713.743.2100
ELECTRICAL & COMPUTER ENGINEERING

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). Computer engineering students design and maintain hardware and software in computer-based systems, from PCs to supercomputers, as well as computer systems that are embedded in vehicles, appliances and communication networks. Specialized areas in computer engineering include system architecture, computer chip design, layout design, packaging and/or system integration.

FAST FACTS

613 Total Undergrad Students in Department

36 Total Faculty in ECE Department

$70,470 Average Starting Salary with B.S. in Computer Engineering

$64,489 Average Starting Salary with B.S. in Electrical Engineering

$91,630 Average Annual Salary in Electrical and Computer Engineering

WHY EARN YOUR ELECTRICAL & COMPUTER ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

ACADEMICS

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.

CAREERS IN ELECTRICAL & COMPUTER ENGINEERING

Career opportunities for both electrical and computer engineers are fantastic across all specialties. A 2019 salary survey produced by Payscale.com found that new electrical engineering and computer engineering graduates earned an average starting salary of $64,489 and $70,470, 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 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

UH Undergraduate Program: www.ece.uh.edu/undergraduate/general-information

Email: ECEugrad@central.uh.edu

UH Department of Electrical and Computer Engineering,

Building 1 | 4726 Calhoun Rd., Suite N308

Houston, Texas 77204-4005 | 713.743.4400

34 UH ENGINEERING

35 UH 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 improve 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 2019 salary survey produced by PayScale.com found that new industrial/manufacturing engineering graduates earned an average starting salary of $59,203.

CAREERS IN INDUSTRIAL ENGINEERING

Industrial engineering students can apply for the Sam Scharff Scholarship, Melody Under-Porter Scholarship, Durga and Suchita Agrawal Endowment, Britt and Sunita Agrawal Scholarship, Hari and Anjali Agrawal Scholarship, Charles E. Donaghey Scholarship, Victor Zaloem Scholarship, Scott T. Pouge Matching Scholarship, Piping Technology Scholarship, and others. Mentor-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.

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.

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

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

FOR MORE INFORMATION

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

UH Department of Industrial Engineering | Engineering Building 2
4222 Calhoun Rd., Suite E206 | Houston, Texas 77204-4008 | 713.743.4180
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 of mechanical components and systems, man and machine environments, product reliability and safety, polymers, materials, and instrumentation 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 $61,158. 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 as $145,000.

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

ACADEMICS

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.

FAST FACTS

984 Total Undergrad Students in Department

25 Total Faculty in ME Department

$61,158 Average Starting Salary with B.S. in Mechanical Engineering

$92,800 Average Annual Salary in Mechanical Engineering

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.

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.

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.

FOR MORE INFORMATION

UH Department of Mechanical Engineering: www.me.uh.edu
Undergraduate Program: www.me.uh.edu/undergraduate/overview
Email: cedwards4@uh.edu

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

FAST FACTS

984 Total Undergrad Students in Department

25 Total Faculty in ME Department

$61,158 Average Starting Salary with B.S. in Mechanical Engineering

$92,800 Average Annual Salary in Mechanical Engineering

MECHANICAL ENGINEERING
PETROLEUM ENGINEERING

WHAT IS PETROLEUM ENGINEERING?

Global economies would collapse without it. Life as we know it would cease to exist without oil and gas, and petroleum engineers are the only ones who know how to extract it safely and efficiently from the earth. They solve the most critical and pressing global energy challenges facing humanity, including how to meet increasing global demand for energy while ensuring the safety and cleanliness of our environment.

Projections from the United States Energy Information Administration predict a substantial increase in demand for energy of all types over the next 30 years. They predict that oil and natural gas will constitute about 50 percent of the total energy supply throughout that period. They also predict that, unless significant improvements in technology are discovered, the increased demand for energy will result in increased atmospheric carbon dioxide concentrations. However, new technologies and practices in directional and horizontal drilling, as well as hydraulic fracturing, have opened vast, new domestic natural gas production and have opened new technologies and practices in directional and horizontal drilling, as well as improvements in technology are discovered, the increased demand for energy of all types over the next 30 years. Projections from the United States Energy Information Administration predict a substantial increase in demand for energy of all types over the next 30 years. They predict that oil and natural gas will constitute about 50 percent of the total energy supply throughout that period.

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 2019 salary survey produced by PayScale.com found that new petroleum engineering graduates earned an average starting salary of $86,524.

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

The vision for the UH Cullen College of Engineering’s petroleum engineering department is to be the center of world-class petroleum 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 expected to hold internships in some of the world’s most prestigious offices while working to obtain your bachelor’s degree in petroleum engineering.

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 located in the city of Houston. Interns receive compensation and valuable experience in real petroleum engineering assignments, enhancing the opportunity for direct hire upon graduation.

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

FAST FACTS

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<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>306</td>
<td>Total Undergrad Students in Department</td>
</tr>
<tr>
<td>12</td>
<td>Total Faculty in PE Department</td>
</tr>
<tr>
<td>$86,524</td>
<td>Average Starting Salary with B.S. in Petroleum Engineering</td>
</tr>
<tr>
<td>$156,370</td>
<td>Average Annual Salary in Petroleum Engineering</td>
</tr>
</tbody>
</table>

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 74-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

Petroleum engineering organizations include the Society of Petroleum Engineers (SPE) and the American Association of Drilling Engineers (AADE). Students are 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/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
5000 Gulf Fwy, Bldg. 9 Rm. 219 | Houston, Texas 77204-0945
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 2020-2021

To learn more about tuition and fees, check out UH’s academic tuition calculator online at:
www.uh.edu/financial/graduate/tuition-fees/

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.

UHin4

UHin4 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/UHin4
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-qu.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

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!

OUT-OF-STATE STUDENTS

Want to pay in-state tuition – but you 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.

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.
FRESHMAN REQUIREMENTS

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.

RECOMMENDED HIGH SCHOOL COURSES
FOR ENGINEERING MAJORS:

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>SOCIAL STUDIES</th>
<th>PHYSICS</th>
<th>MATHEMATICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

(4 including 2 credits in algebra, 1 in geometry and ½ in either elementary analysis or analytical geometry)

*Mechanical Engineering Students Only: Course in mechanical drawing/drafting in the 10th, 11th or 12th grade. A deficiency in this area may be made up during the first year at the University of Houston.

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

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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum SAT Score Total/Minimum SAT Critical Reading (CR) Section (200 — 800)/OR</td>
<td>Minimum SAT Score Total/Minimum SAT Evidence-Based Reading and Writing (ERW)</td>
<td>OR</td>
</tr>
<tr>
<td>Top 25%</td>
<td>1200 and 570</td>
<td>1270/630</td>
<td>26 and 24</td>
</tr>
<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>

REQUIREMENTS FOR TRANSFER, INTERNATIONAL AND FORMER STUDENTS
Some students, like transfer students, international students and former UH students applying for readmission will be required to submit additional information in addition to the application and application fee. To learn more about all admissions processes at UH, visit www.uh.edu/admissions/apply

Transfer students
Please visit www.uh.edu/admissions/apply/apply-transfer to learn more about transfer student admissions.

International students
Please visit www.uh.edu/admissions/apply/international to learn more about international student admissions.

TRANSFER REQUIREMENTS

<table>
<thead>
<tr>
<th>REQUIRED GPA</th>
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<tbody>
<tr>
<td>3.25</td>
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<tr>
<td>3.0</td>
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<td>3.0</td>
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<tr>
<td>3.0</td>
</tr>
<tr>
<td>2.5</td>
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<td>3.0</td>
</tr>
</tbody>
</table>

*D: Biology 1361/1161 and 1362/1162, Chemistry 1331/1131, 1332/1132, 1372/1172, 3221, 3331, and 3332, Geology 130/1130, Physics 1350/1150 and 1351/1151.

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

Please visit uh.edu/admissions/apply-transfer to learn more about transfer student admissions.

Please visit uh.edu/admissions/apply/international to learn more about international student admissions.

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

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!

COMFY SNEAKERS
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!

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 SMILE
At the Cullen College, we work hard, but we play hard, too! Throughout the year we host several parties, like the Beginning of Semester (BOS) party, the IEEE Chili Cook-off and several department banquets, galas and mixers. Bring your smile (and your appetite) and have a blast!

A GREAT PILLOW
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!

A GREAT TRANSLATOR APP
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!
UNIVERSITY OF HOUSTON

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

UH is a designated TIER ONE RESEARCH INSTITUTION by the Carnegie Foundation for the Advancement of Teaching.

581 student organizations to join.

40 research centers on campus.

Over 120 undergraduate majors and minors.

2ND MOST ETHNICALLY DIVERSE UNIVERSITY in the U.S. with students from 127 countries.

Over 2,500 ON-CAMPUS JOBS and internships available annually.

One of the most ENVIRONMENTALLY RESPONSIBLE universities in the nation (Princeton Review).

Wear red for COUGAR RED FRIDAYS!

Brand new, state-of-the-art TDECU FOOTBALL STADIUM.

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

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.

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

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HOUSTON has an NFL football team, NBA basketball team, MLB baseball team, MLS soccer team and NWSL soccer team.

The annual HOUSTON LIVESTOCK SHOW AND RODEO attracts more than 2 million visitors each spring.

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

Houston is home to a 17-BLOCK THEATER DISTRICT with eight performing arts organizations and over 12,000 seats. Only New York City has more seats concentrated in one geographic area.

More than 90 LANGUAGES are spoken throughout the Houston area.

If Houston were an independent nation, it would rank as the world’s 30TH LARGEST ECONOMY.

Houston’s MUSEUM DISTRICT offers a range of museums, galleries, and art and cultural institutions.

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.

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.