## Chicago is where you will rise.

UNDERGRADUATE PROGRAMS

UIC ENGINEERING

# Transformation happens from the inside out.





If you want to change the world, figure out how things work on the inside.

Engineering applies principles of science and the language of math to the inner workings of everything around us — biological, chemical, electrical, structural, computational — to create lasting, positive change. Engineering and computer science give you a way to shape your world for the better.

Think about pioneering jet fuels that reduce the carbon footprint of air travel. Imagine reshaping the skyline of a developing country. Picture a mountain lake cleaned and opened for swimming with the help of nanoparticles.

Inventions. New approaches. Real-world results. At the University of Illinois Chicago, you can transform yourself into an engineer or computer scientist with the power to transform our world — someday, or even right now.

# Everything is right here. You can be, too.

"Engineering is a fantastic career field that drives the future's progression. Engineering allows an idea to become reality through innovation."

Joanna Tan, BS '20, mechanical engineering Mechanical engineer, Argonne National Laboratory

#### Cutting-edge research

UIC Engineering faculty manage more than \$141 million in grant-funded research projects, many of which include student participation. In addition, Chicago's South Loop is home to the University of Illinois System's Discovery Partners Institute, a public-private partnership designed to solve problems in computing and data, food and agriculture, the environment, and health.

#### Industry connections and job opportunities — even while you're still in school

AbbVie, Baxter Healthcare, Boeing, Caterpillar, Google, IBM, Northrop Grumman, Turner Construction, and other metro-area firms hire UIC engineering and computer science students for internships. During the summer? Yes, of course. But given our location in Chicago, you can make the most of fall and spring internships, too.

#### Leadership potential

UIC students head nearly 35 student professional organizations. Some are chapters of national and global engineering societies, from Engineering World Health to the American Institute of Aeronautics and Astronautics. Others are UIC students' own creations, such as Engineers for a Sustainable World, Out in STEM, and LOGICA: the Latinx Organization for Growth in Computing and Academics.

## Your dream career can happen. We're here to help you get there.

UIC Engineering courses give you the knowledge and skills to succeed in the industry job or graduate program you envision for yourself after college. UIC Engineering's suite of career-development programming prepares you to compete for those opportunities.

#### Internships – guaranteed

UIC's College of Engineering is unique in guaranteeing an internship to every freshman and transfer student who meets the requirements for participation in the program. The Guaranteed Paid Internship Program places students in paid roles in cutting-edge research laboratories. Holding one of these internships makes you even more competitive for external summer internships and eventually for full-time jobs.

#### **Engineering Career Center**

Career services are central to any college experience, but UIC Engineering houses a specialized career center for engineering and computer science students. Our career counselors will meet one-on-one with you to map out your internship and job search. The center also runs industry-specific workshops on writing great résumés and cover letters, making the most of LinkedIn, networking, interviewing, and negotiating salaries.



### 150+

Companies that recruit on campus at each of our two annual engineering and computer science career fairs, organized by the Engineering Career Center.

## 29,000

Engineering and computer science alumni who will form the foundation of your new professional network — among 309,000 UIC alumni across all fields.

## \$70,000-\$100,000+

Starting salaries reported by 73 percent of UIC College of Engineering graduates within six months of graduation.

## Work here.

**Hiring companies** 

Abbott

AbbVie Accenture Allstate Amazon Apple Arcelor Mittal Argonne National Laboratory Baxter Health Blue Cross Blue Shield Boeing Cabot Microelectronics Cargill Caterpillar Chicago Transit Authority Cisco Systems **CNH** Industrial ComEd/Exelon Cummins DeltaHawk Engines Dow Chemical Company Exxon Mobil Facebook

#### The following companies and organizations are among the hundreds that hire UIC engineering and computer science students:

Federal-Mogul Fermilab Ford **GE** Appliances GE Healthcare GM Google Honda (Research and Development) Honeywell HydraForce Hydro Inc. IBM Illinois Department of Transportation Infosys Intel ITW John Deere Johnson Controls Kraft Heinz Company Lockheed Martin L'Oreal USA Microsoft Milhouse Engineering

Molex Motorola Solutions Navistar Nestlé Northern Trust Northrop Grumman Optum Peoples Gas PepsiCo Qualtrics Raytheon SanDisk Shure Siemens SpaceX Tesla T-Mobile **Turner Construction** Twitter Uber UL Uptake U.S. Army Corps of Engineers



# One world. One city. One college.

Ask engineering and computer science students what sets the UIC College of Engineering apart, and you'll hear a common answer: diversity. Our academic community is inclusive by race, ethnicity, class, gender, sexual orientation and identity, disability, national origin and citizenship status, age, language, culture, religion, and economic status. Here, we believe that every student should feel fully empowered to be themselves in a welcoming environment.

That means you.

### 38%

of UIC students are first-generation college students



of UIC first-year students report a first language other than English 70% of UIC

undergraduates receive financial aid



"Engineering is a collaborative practice, and it is important that those who pour into that collaboration are as close to the society we live in as possible. With diversity we can always be sure unique cultural perspectives are represented fairly."

Bankole Olonilua, BS '18, electrical engineering Hardware engineer, Northrop Grumman



"I went to a high school that was nearly homogeneous in terms of ethnicity and socioeconomic background. Although there was diversity of thought by nature of the uniqueness of every individual, I was blown away by how much I was missing out on when I entered UIC. UIC is one of the most diverse universities in the country, and over my undergraduate years, I had the opportunity to learn so much from my classmates who were all from such different walks of life."

Siva Sreedhar, BS '21, chemical engineering Medical student, Northwestern University Feinberg School of Medicine



## Women are changing the industry. That starts at UIC.

According to the Society of Women Engineers, only 13 percent of engineers and only 26 percent of computer scientists in the United States are women. It's well past time for those numbers to change. With a UIC education, our graduates will shift the gender balance of the workplace.

These are our premier programs for gender diversity.

#### **Break Through Tech Chicago**

Tech needs you. That's the idea behind Break Through Tech, a national organization that believes the tech workforce will be better and stronger with greater gender diversity. UIC is one of only four Break Through Tech universities nationwide, preparing women and nonbinary individuals with the computer science or data science education they need to revolutionize tech.

Female and nonbinary students pursuing tech majors or minors can apply for membership, which provides:

- Access to Sprinternships, microinternships that offer tech work experience at a Chicago-area organization. These three weeks will make you more competitive for internships and full-time jobs.
- Industry-specific career prep. Think not only job-search tips and résumé-writing, but also coaching on how to shine in technical interviews.
- A supportive community of fellow students, alumni, faculty, and staff who are excited about your role in changing the face of the industry.

chicago.breakthroughtech.org

#### Women in Engineering Programs

These programs encourage women to pursue engineering and provide support once they enroll. Incoming female undergraduates can rely on junior or senior peer mentors for answers to questions on anything from choosing classes to getting involved in activities. Meanwhile, UIC women in engineering pay it forward, helping girls in kindergarten through grade 12 to start picturing themselves in the field.

#### **Programs include:**

- Scholarship support, including merit awards for high-achieving first-year female students in engineering and computer science.
- Leadership opportunities. You can lead by running programs for your peers and for the next generation.
- Community-building via student organizations and connections with UIC alumni who are invested in your future.

#### wiep.uic.edu



"We all have different ways of viewing the world, and we're all unique in our own individual ways. By diversifying the tech world, we create more inclusive technologies for our community."

Anusha Pai, BS '19, computer science Software engineer, Google

## Hands-on.

The College of Engineering is designed so that you'll head out into the world after UIC with real, practical experience. Here, learning and doing are part of the same enterprise.

#### **Innovation Center**

College courses designed by Dunkin Donuts or the construction materials giant USG? Find them in our Innovation Center. Major companies collaborate with UIC faculty to design hands-on courses. Working in interdisciplinary teams with peers majoring in everything from business to graphic design, UIC Engineering students use engineering concepts to develop useful, innovative solutions for their partner company. It's a win-win of a whole new kind.

#### Makerspace

If you need a place to produce your prototype, we've got it. UIC's Makerspace houses a fabrication lab with 3D printers, a laser cutter, specialized mills for plastics and wax, large-scale printers, cameras, and scanners — all for use by engineering and computer science students. You imagine it, and we can help you make it.

#### **Engineering Expo**

Corporate executives visit campus to award prizes to undergraduate seniors' projects in design, prototyping, and applied research. Last year's projects delved into sustainable jet fuel, a beehive ventilation system, flexible robots, urban bike trails, and about 195 other creative topics. "If possible, determine which industry you are most interested in, and then do a project or competition related to that industry. For example, if you are interested in blockchain, do a project with blockchain technology. If you are interested in microcontrollers, do a project outside of class that demonstrates that. Show your employer you are interested in what they do."

John D. McDonald, BS '21, computer engineering Managing director, PwC

## Degree programs



"Getting experience is very helpful in finding out what you want to do, as well as in helping you get a job. Internships or even research is really important."

Kaylynn Arrington, data science major

#### Majors

- Biomedical engineering
- Chemical engineering
- Civil engineering
- Computer engineering
- Computer science
- Computer science + design
- Data science
- Electrical engineering
- Engineering management
- Engineering physics
- Environmental engineering
- Industrial engineering
- Mechanical engineering

#### Minors

College of Engineering students can choose a minor from another UIC college or within the college. UIC Engineering offers minors in most of the fields where we offer majors, plus environmental engineering and materials engineering.

#### Honors opportunities

Incoming engineering students are invited to apply to the UIC Honors College, a community of exceptional scholars in the liberal arts, sciences, and engineering who have access to honors-level first-year core courses, research assistantships, and dedicated facilities.

Sophomores, juniors, and seniors in the Honors College complete one honorslevel activity per year, such as research, study abroad, service learning, or tutoring.

#### Additional benefits available to honors students include:

- Merit-based and need-based scholarships
- Mentoring and advising from Faculty Fellows
- Honors seminars
- Honors floors in UIC residence halls

"UIC gave me my first true experiences in working on interdisciplinary teams, learning about user-centered design, and immersing myself in the biomedical innovation process. The way they teach biomedical engineering at UIC is amazingly real, - yery practical, very patient-centric, with lots of opportunities to find your niche in the broad world of biomedical engineering."

Christine Rachel Joseph, BS '16, biomedical engineering, Human factors engineer, Genented

# Biomedical engineering

Biomedical engineers use technology and engineering principles to improve the way that living things work. Modern medicine has been profoundly shaped by achievements in this field. Biomedical engineers are behind MRI imaging, drug-delivery systems such as insulin pumps, engineered organs for transplants, advanced prosthetics, and new ways to treat diseases from Alzheimer's to glaucoma. A biomedical engineering degree prepares you for a wide range of career paths, from medical product development and neural engineering to patent law, medicine, or pharmacy.

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#### Take this:

- BME 250 Clinical Problems in Bioengineering
- BME 310 Biological Systems Analysis
- BME 423 Biomedical Imaging Laboratory
- BME 485 Bionanosensors

#### go.uic.edu/bme-major





"Chemical engineering is wonderfully broad, allowing you to develop a skill set that can be applied to so many different fields. I personally am headed to medical school, and I know classmates who are working in the food industry, pharmaceutical industry, the software industry, and so on. You really learn how to analyze a situation and gather information to best solve problems, all while reinforcing topics in math and physics."

Siva Sreedhar, BS '21, chemical engineering Medical student, Northwestern University Feinberg School of Medicine

# Chemical engineering

Nearly everything you used today — from your shampoo to your t-shirt to the gasoline (or electric vehicle battery) that powered you home — involved the contributions of a chemical engineer. Chemical engineering is about creating innovative components and honing the processes we use to make them. You can point your chemical engineering career in many directions: nanotechnology, biomaterials, food processing, energy, and beyond. Whether you choose to focus on computer chips, potato chips, or anything in between, you will improve not only what we do, but how we do it.

#### Take this:

- CHE 341 Chemical Process Control
- CHE 422 Biochemical Engineering
- CHE 451 Renewable Energy Technologies
- CHE 494 2D Nanomaterials

#### go.uic.edu/che-major

"I had two favorite courses. In CME 497 Capstone Design, I worked with a team of motivated individuals on a real-life project: the western access to O'Hare Airport. We needed to communicate with multiple people, and we needed to figure out solutions when things were not working the way we thought they would. In CME 485 Construction Engineering and Management, the instructor, Dr. Ataei, shared with us the hands-on, real-world issues and projects that he had been a part of. This helped me to imagine my future responsibilities."

Zaneta Marcinik, BS '21, civil engineering

## Civil engineering

People think of civil engineering as shaping the built world around us. That's true. But the field goes deeper, too: not just creating buildings, transit networks, power grids, and water systems, but also knowing how those systems affect our environment, the economy, and people. Civil engineering sets you on a path that could include designing structures, ensuring the purity of rivers and lakes, or coming up with ingenious new modes of transportation. We are more aware than ever of the impact that development has on people and the planet. That means we need smart civil engineers — like you.

#### Take this:

- CME 406 Bridge Design I
- CME 408 Traffic Engineering and Design
- CME 440 Cities and Sustainable
   Infrastructure
- CME 454 Design of Tall Buildings

#### go.uic.edu/civil-major

## Computer engineering

Computer engineers have a unique ability: understanding cutting-edge hardware and software, both of which are required to build world-changing digital systems. You will finish your UIC computer engineering major with a grasp of processor architecture, parallel processing, embedded systems, hardware and software security, circuit design, computer chip design and fabrication, and much more. You can put this knowledge — and your own creative vision — into improving the technology we have today and creating the systems and devices of the future.

#### Take this:

- ECE 333 Computer Communication Networks I
- ECE 366 Computer Organization
- ECE 449 Microdevices and Micromachining Technology
- ECE 452 Robotics: Algorithms and Control

#### go.uic.edu/ce-major





"A computer science major is an artist whose canvas may be a smartphone or desktop display and whose paints and brushes are programming languages and development environments. Solve complex problems by harnessing the power of cutting-edge technologies and applied computer science."

**Jigar Patel, BS '21** Software development engineer, Amazon

**Fabian Torres, BS '21, computer engineering** Software engineer, JPMorgan Chase

"As computer engineering is a mix of

electrical engineering and computer

science, computer engineers get the

flexibility of knowing how electronics

and modern computers work - from

applications. Knowing how electronics

hardware to high-level software

work from both angles gives you

greater insight on how a computer

It's truly the best way to familiarize

truly works, without much ambiguity.

yourself with how to solve some of the world's modern electronics problems!"

### **Computer** science

Computer scientists' work underlies virtually every system we encounter in an average day. Programming makes it possible for us to withdraw money from the bank, play video games, send Snapchat messages, visualize complex information, keep our data safe, and drive our cars (or let those cars drive themselves). UIC computer scientists also are at the forefront of ensuring that code benefits all people: making sure algorithms act fairly and equitably, expanding computer literacy across Chicago neighborhoods, and creating space for underrepresented groups in computing research and development.

#### Take this:

- CS 342 Software Design
- CS 377 Communication and Ethical Issues in Computing
- CS 426 Video Game Design and Development
- CS 487 Building Secure Computer Systems

#### go.uic.edu/cs-major





"The CS + Design program will educate a new generation of designers and scientists working with advanced technologies to push the boundaries of creative expression and interdisciplinary expertise."

Daria Tsoupikova-Preuss , Professor, Digital Media Design Co-Director, BS in Computer Science + Design

### Computer science + design

Developing mobile platforms and apps takes more than just technical know-how: humancentered computing requires design acumen and creativity. If you enjoy both the technical and creative side of computing, you could be an ideal candidate for UIC's computer science + design program. UIC is the first public university in the nation to offer this degree, which involves working with advanced technologies including augmented and virtual reality, data and visualization, and 3D fabrication to push the boundaries of creative expression and interdisciplinary expertise.

#### Take this:

- CS 362 Computer Design
- CS 427 / DES 427 Creative Coding
- DES 452 Information Aesthetics I
- DES 430 Interdisciplinary Product Development I

#### go.uic.edu/csd-major



"Data science changes the entire game of computer science for those who are interested in the dataanalytics section of the field. Learning data science here at UIC gives you not only the skills to learn how to process and analyze data, but also the skills to build code to support your analytics. You can then extend those skills toward almost any field that uses some aspect of data."

Patrick Asztabski, data science major

### Data science

Human beings have collected mind-blowing amounts of data about nearly every aspect of life. We have reams of information on people's buying habits. On the success of medical treatments. On CTA ridership, financial market performance, manufacturing efficiency, wireless data transmission, Instagram scrolling, music downloading, and the global spread of viruses. What does the world need to understand and harness the power of all that information? Data scientists. This major prepares you for a highly paid position where you'll make sense of information in the area that interests you most.

#### Take this:

- CS 251 Data Structures
- IDS 312 Business Project Management
- STAT 381 Applied Statistical Methods
- STAT 382 Statistical Methods and Computing

#### go.uic.edu/ds-major

### **Electrical** engineering

People say our world is more connected than ever. We have electrical engineers to thank for that. They are behind the technology that allows you to turn on your air conditioner from your phone before you get home, that allows doctors to send tiny diagnostic probes through people's blood vessels, that beams information around the world, and that remotely monitors vulnerable species deep in the forest. If you are interested in devices that run on power, electrical engineering provides the knowledge you need to understand them and to design new ones from the ground up.

#### Take this:

- ECE 346 Solid State Device Theory
- ECE 415 Image Analysis and Computer Vision I
- ECE 437 Wireless Communications
- ECE 445 Analysis and Design of **Power Electronic Circuits**

#### go.uic.edu/ee-major

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"Engineering management graduates can combine systemsengineering skills and business skills to manage and improve complex and integrated systems across industries: healthcare, manufacturing, energy, and entertainment, to name just a few."

**Houshang Darabi** Professor, UIC Engineering

"Being an electrical engineering major prepared me to be able to collaborate with others and to comprehend engineering concepts outside of electrical and computer engineering. In the working world, we sometimes work with three or four different engineering fields on the same project. Being able to understand the talking points and implementations outside of your engineering field is important for career growth."

Bankole Olonilua, BS '18, electrical engineering Hardware engineer, Northrop Grumman



### Engineering management

Engineering places great value on doing things better: improving processes, maximizing efficiency, and creating the best possible product or service. Do these principles sound at home in the business world, too? Yes, and that's the idea behind UIC's engineering management major. If your future is in management – leading teams of people, overseeing operations, or even running a company — this major's courses in industrial engineering, statistical analysis, strategy, finance, and other fields will make you a valued contributor to any business.

#### Take this:

- ACTG 211 Introduction to Managerial Accounting
- IE 201 Financial Engineering
- IE 365 Work Productivity Analysis
- MGMT 495 Competitive Strategy

#### go.uic.edu/em-major





"It's a flexible program that allows you to explore multiple disciplines. It helps to gain a deeper understanding behind engineering and a strong skill set for either the working world or academia. The engineering physics degree provided me with plenty of marketable skills that are desirable to companies. It strengthened my analytical skills and allowed me to be a solid contributor to any team."

**Tytus Szymczak, BS '18, engineering physics** Systems engineer, Northrop Grumman

## Engineering physics

Engineers are problem-solvers. Engineering physics majors are problem-solvers with an exceptionally strong grounding in math and science. This degree prepares you to work in one of the most exciting areas in science and engineering: the quantum frontier. One of UIC's distinguished scholars in this field, Associate Professor Thomas Searles (who will be one of your professors) puts it this way: "For engineering physics, the opportunity is golden, especially in the next five to 10 years in a place like Chicago where there is a huge push to build a brand-new quantum industry." This opportunity is yours to take.

#### Take this:

- PHYS 240 Fundamentals of Modern Quantum Theory
- PHYS 245 Introduction to Vibrations, Waves, and Thermal Physics
- ECE 440 Nanoelectronics
- ECE 421 Introduction to Antennas and Wireless Propagation

go.uic.edu/ep-major



"The program draws on the resources, faculty expertise, and courses to fill the emerging need for environmental engineers, which is expected to increase over the next several decades in Illinois and nationwide."

Amid Khodadoudst Associate Professor, UIC Engineering

# Environmental engineering

Environmental engineers are on the forefront of addressing global issues such as unsafe drinking water, climate change, and environmental sustainability. They use the principles of engineering, chemistry, and other physical or natural sciences to design water and wastewater treatment systems and to remediate contaminated soil and groundwater. Interested in creating a greener world? The environmental engineering curriculum will prepare you for both world-changing jobs and graduate programs nationwide.

#### Take this:

- CME 211 Fluid Mechanics
- CME 322 Environmental Engineering
- CME 411 Environmental Chemistry
- CME 421 Water Treatment Design

#### go.uic.edu/enve-major



Natalie Ferguson, BS '21, industrial engineering Continuous improvement engineer, Nemera

# Industrial engineering

The area where engineering, computer science, and finance come together is a fascinating place to work — and that's where you'll find industrial engineers. These engineers examine every process with an eye toward making it smarter and faster, producing better results with less waste and cost. Their systems-oriented view allows them to see the big picture in any industry. With an industrial engineering degree from UIC, you'll be able to apply cutting-edge skills such as artificial intelligence, data science, and human-machine interaction to improve the real world.

#### Take this:

- IE 441 Ergonomics and Human Factors
- IE 461 Safety Engineering
- IE 467 Discrete Event Computer Simulation Application
- IE 481 Additive Manufacturing Process

#### go.uic.edu/ie-major



"Project-based classes and labs are the way to exercise what it is like being an engineer. A good engineer does not just know the theory — they know how to apply the basic knowledge to solve a real problem. They figure out what information is missing and how it can be found out. Engineers solve problems every day by collecting data and breaking down big problems into smaller manageable tasks."

Nina Svirinovska Design engineer, ImmersiveTouch, Inc.

# Mechanical engineering

If something moves, the principles of mechanical engineering are at play. That speaks to the breadth and diversity of the field, which includes careers in aerospace, sustainable energy, product design, robotics, electric vehicles, energy conversion and storage, nanomaterials, and more. No matter which area interests you most, UIC's mechanical engineering major will prepare you for it with valuable expertise in coding, computer-aided design, rapid prototyping, and modeling and simulation (to name a few). You'll be ready to nimbly meet the demands of a constantly evolving set of industries.

#### Take this:

- ME 250 Introduction to Engineering Design
- ME 410 Automation and Robotics Applications
- ME 418 Transport Phenomena in Nanotechnology
- ME 494 Electrochemistry Energy Storage Modeling

#### go.uic.edu/me-major

## Admissions

The UIC College of Engineering seeks to admit bright, talented, energetic students who want to make a difference in the world. Applicants are evaluated on their prior academic performance, but other factors matter, too, including essays, extracurricular activities, and recommendation letters.

#### **Scholarships and financial aid**

70 percent of UIC students receive some form of financial aid. This comes in the form of grants, scholarships, loans, and employment. It helps to pay the costs of tuition, fees, books, supplies, room and board, transportation, and other personal expenses. Full details are available on the UIC Office of Student Financial Aid's website: go.uic.edu/financialaid.

#### **Academic performance**

In past years, successful applicants to the College of Engineering ranked in the top 20 percent of their graduating classes. Standardized test scores are not required for admission, but students may submit the results of the SAT or ACT if they would like to. For those who want to provide test scores, here are some past data for reference: The middle 50 percent of admitted students had an ACT composite score between 25 and 29, with a math subscore of 26 to 31. This corresponds to an SAT score between 1200 and 1380, with a math score of 610 to 710.

ULHEALTH

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#### **High school preparation**

In high school, applicants should have completed 4 years of math coursework and 3 years of laboratory science coursework, in addition to UIC requirements for classes in English, social sciences, and electives as outlined at admissions.uic.edu.

AP credit is available: visit the Academic Standing section of the course catalog (go.uic.edu/course) for more information.

#### **Transfer preparation**

Transfer students must have completed at least 24 credit hours of transferable coursework at the time of enrollment. Ideally, transfers will have completed as many of the following as possible: Calculus I, II, and III; Differential Equations; English Composition I and II; General Physics I (mechanics) and II (electricity and magnetism); and General Chemistry I. You can compare the classes you have taken to UIC courses at go.uic.edu/course, and you can visit transferology.com for more information.

#### **HOW TO APPLY**

The UIC College of Engineering admissions process takes place online. Go to the UIC Admissions website at admissions.uic.edu and click on "Undergraduate." This site also offers detailed information on requirements and deadlines.

## **Fast facts**



#### FACULTY AND CLASSES

Number of full-time faculty: **201** 

Percent with terminal degrees:

97%

Number of faculty who have received NSF CAREER awards:

**46** 

Student-faculty ratio:

21:1

#### LIFE AFTER UIC

Students holding one or more internships during college:

**64%** 

Students in first destinations within 6 months of graduation:

84%

Percent of graduates with starting salaries between \$70,000 and \$100,000+

**76%** 

Size of UIC's global alumni network 309,000



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**University of Illinois Chicago College of Engineering** 851 South Morgan Street Chicago, IL 60607

**Undergraduate admission:** 312.996.3463

engineering.uic.edu