Personal attention. Approachable faculty. The accessibility of a small college set within the endless opportunities of a comprehensive university. An enduring commitment to the community. Team spirit. A drive to do more. Transforming together.

Welcome to Syracuse University’s College of Engineering and Computer Science, where our spirit unites us in striving for nothing less than a higher quality of life for all—in a safer, healthier, more sustainable world.

Together, we are dedicated to preparing our students to excel at the highest levels in industry, in academia—and in life.
Message from the Dean

Inquisitive. Creative. Entrepreneurial. These are fundamental attributes of Syracuse engineers and computer scientists. Unlike ever before, engineers and computer scientists are addressing the most important global and social issues impacting our future—and Syracuse University is playing an integral role in shaping this future.

The College of Engineering and Computer Science is a vibrant community of students, faculty, staff, and alumni. Our degree programs develop critical thinking skills, as well as hands-on learning. Our experiential programs provide opportunities for research, professional experience, study abroad, and entrepreneurship. Through cutting edge research, curricular innovations, and multi-disciplinary collaborations, we are addressing challenges such as protecting our cyber-systems, regenerating human tissues, providing clean water supplies, minimizing consumption of fossil fuels, and securing data within wireless systems.

Our students stand out as individuals and consistently prove they can be successful as part of a team. They graduate prepared to enter the workplace or continue their education in graduate or professional schools. Our graduates are sought after for their ability to translate what they have learned in the classroom to real-world needs.

I invite you to join us at Syracuse, a comprehensive university that values the talent and potential of every student. I hope to see you on campus sometime soon!

Sincerely,

Teresa Abi-Nader Dahlberg, Ph.D.
Dean and Professor

A LEADING MODEL FOR CONTEMPORARY ENGINEERING & COMPUTER SCIENCE EDUCATION

Dean Teresa Abi-Nader Dahlberg, Ph.D.
WANT TO SEE THE WORLD
and take selfies while exploring Europe

SEEK
to change the world through research

ARE DRIVEN
to excel in the classroom

THRIVE
on collaboration with their classmates and professors

ARE READY TO LEAD
a club, a society, a team

ASPIRE
to a career they love

ARE PREPARED TO CHANGE THE WORLD

Our Students
FACTS ABOUT THE COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

<table>
<thead>
<tr>
<th><strong>1</strong></th>
<th><strong>40</strong></th>
<th><strong>30</strong></th>
<th><strong>20%</strong></th>
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<tbody>
<tr>
<td>FLIGHT SIMULATOR</td>
<td>STATES REPRESENTED</td>
<td>COUNTRIES REPRESENTED</td>
<td>STUDENTS FROM DIVERSE RACIAL/ETHNIC BACKGROUNDS</td>
</tr>
<tr>
<td>40% OF SYRACUSE STUDENTS STUDY ABROAD</td>
<td>95% STUDENTS WITH A JOB OR IN GRADUATE SCHOOL AFTER GRADUATION OR WITHIN SIX MONTHS</td>
<td>AVERAGE STARTING SALARY: $66,000</td>
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<tr>
<th><strong>1,600</strong></th>
<th><strong>20+</strong></th>
<th><strong>20,000+</strong></th>
<th><strong>25%</strong></th>
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<tbody>
<tr>
<td>ENGINEERING &amp; COMPUTER SCIENCE UNDERGRADUATE STUDENTS</td>
<td>ENGINEERING &amp; COMPUTER SCIENCE STUDENT ORGANIZATIONS</td>
<td>TOTAL NUMBER OF ENGINEERING &amp; COMPUTER SCIENCE ALUMNI</td>
<td>OF ENGINEERING &amp; COMPUTER SCIENCE STUDENTS ARE WOMEN</td>
</tr>
<tr>
<td>100+ MINORS</td>
<td>23% OF SYRACUSE MARCHING BAND MEMBERS ARE FROM OUR COLLEGE</td>
<td>NEAREST MINOR: ENERGY SYSTEMS</td>
<td>2 WIND TUNNELS</td>
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</tbody>
</table>
Choose from 10 academic majors:

- Aerospace Engineering
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Mechanical Engineering
- Systems & Information Science

All Bachelor of Science degrees in Engineering at Syracuse University are accredited by the Engineering Accreditation Commission of ABET.
The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission of ABET.

Earning a degree from an ABET-accredited program:

- Verifies that the quality of the educational experience you’ve received meets the standards of the profession.
- Increases and enhances employment opportunities.
- Permits and eases entry to a technical profession through licensure, registration, and certification.
- Establishes eligibility for many federal student loans, grants, and/or scholarships.

To learn more about ABET, see www.abet.org.
We encourage our students to follow their passions. Our programs offer students the flexibility needed to pursue studies in other academic areas at Syracuse University, allowing many to pursue a minor or a second major.

Examples include:

**Minors**
- Architecture
- Computer Science
- Construction Management
- Energy Systems
- Engineering Management
- Entrepreneurship & Emerging Enterprises
- Music Industry
- Public Communications

**Second Majors**
- Biochemistry
- Economics
- Foreign Language
- Forensic Science
- International Relations
- Mathematics
- Physics
- Policy Studies

For more information about available majors and minors, visit coursecatalog.syr.edu.
GET AN MBA
The H. John Riley Dual Engineering/MBA Program is a five-year program option for students to complete a bachelor’s degree in engineering or computer science and an MBA from our Whitman School of Management. Students apply in the spring of their sophomore year.

FAST-TRACK TO A MASTER’S
Students have the opportunity to complete their B.S. and M.S. in their engineering or computer science discipline in a total of five years.

BECOME AN ENTREPRENEUR
Entrepreneurship opportunities are central to the student experience at SU. We offer courses focused on design thinking, innovation, entrepreneurialism, and effective communication skills for engineers and computer scientists. Students can apply to the Invent @ SU program, a six-week, summer immersion program, where they “design, prototype, and pitch” as they invent tangible products. In addition, there are several student entrepreneurship competitions hosted on the Syracuse campus, including the ACC Innovation Challenge and the Panasci Business Plan Competition.

GRADUATE WITH HONORS
The Renée Crown University Honors Program provides a compelling educational experience for accomplished students. In this vibrant and intellectual community, students take fascinating courses, participate in special cultural and academic events, get priority course registration, and pursue faculty-guided research or professional work in their field.
GAIN REAL-WORLD INTERNATIONAL EXPERIENCE

At Syracuse University, you can study engineering or computer science and have an exciting study abroad experience, while making the same progress toward graduation as if you were on campus. In an increasingly global world, pursuing the opportunity to study abroad will make your academic experience richer and will also differentiate you in your future career.

- Dublin
- Florence
- Hong Kong
- London
- Madrid
- Santiago
- Strasbourg
- Sydney
TEST YOUR KNOWLEDGE

BUILD PROFESSIONAL CONNECTIONS

By joining one of our 20+ clubs or professional organizations you could:

- build a car that runs on a chemical energy source.
- design and build a rocket.
- design and build a robot.
- build a formula car to race in competition.
- build an off-road Baja car.
- build a steel bridge for competition.
- attend national professional organization conferences.
- participate in community outreach programs.
- design, build and compete in the IEEE micromouse competition.
- prepare medical instruments for clinics in the developing world.
- network with engineering and computer science professionals.

There are professional societies and clubs for every major in our College:

- Alpha Omega Epsilon, national engineering sorority
- American Institute of Aeronautics and Astronautics
- American Institute of Chemical Engineers
- American Society of Civil Engineers
- American Society of Mechanical Engineers
- Biomedical Engineering Society
- Engineering World Health
- Engineers Without Borders
- Institute of Electrical and Electronics Engineers
- National Society for Black Engineers
- Out in Science, Technology, Engineering, and Mathematics
- Society of Asian Scientists and Engineers
- Society of Automotive Engineers · Formula Racing Team
- Society of Automotive Engineers · Mini Baja Racing Team
- Society of Hispanic Professional Engineers
- Society of Women Engineers
- Tau Beta Pi national engineering honor society
- Theta Tau, national engineering fraternity
Committed to students’ success

We know that students who choose to study engineering or computer science are ambitious and driven by challenges. Being a new student is a time for transition, and we want to see our students succeed. The College of Engineering and Computer Science has a number of programs in place to support students’ success.

First-Year Advisors
Academic advisors work directly with first-year students to help them select courses, understand academic policies and procedures, and navigate their transition to college. Advisors can also help students take advantage of the many opportunities and resources at Syracuse University.

Academic Excellence Workshops
Some first- and second-year courses are challenging, and no one knows this better than current students. Academic Excellence Workshops are peer-facilitated, one-credit, pass/fail courses designed to supplement the instruction in many first- and second-year courses.

Pathfinder Program
Students helping students. Pathfinders are peer mentors who will help first-year students transition to life as new members of the Syracuse University community. Pathfinders offer guidance, support, and friendship to new students in the first semester and beyond.

Engineering and Computer Science Learning Community
The Engineering and Computer Science Learning Community is a vibrant community of students who share an interest and enthusiasm for engineering, computer science, and technology. This living environment makes it easy and convenient for students to study and learn together, right in their residence hall.

Success Coaching
Success Coaches are available to assist students in reaching their academic and personal goals. Coaches can work with students on both academic and personal goal setting, time management, campus involvement, stress management, and other strategies to overcome challenges. This is accomplished through one-on-one meetings and small group workshops.

SummerStart
This residential program is designed to give incoming first-year Syracuse University students a head start on their academic studies. Students enroll in two or three academic courses during the second summer session. The program provides a high level of mentoring and support to students. Information is available at summerstart.syr.edu.

Transfer Student Success
Syracuse University welcomes a talented group of transfer students to campus every semester. From the time of application, we will work closely with students to discuss transfer credits, academic programs, housing options, and all other questions. Upon arrival on campus, our staff will connect transfer students to programs and resources that will help them make a smooth transition to life at Syracuse University.
CHANGING THE WORLD THROUGH RESEARCH
Undergraduates have the opportunity to work in numerous engineering and computer science laboratories. They can conduct their own research, play an integral role on a research team, or even co-author a paper with their professors.

Undergraduate students in engineering and computer science at Syracuse University have outstanding opportunities to engage in leading-edge research taking place in labs throughout the College. Whether during the academic year or summer, undergraduate researchers work alongside faculty and graduate students, tackling complex problems and developing innovative solutions and technologies. Through research, students gain additional skills and knowledge and a hands-on opportunity to make a difference. Often, the opportunity and experience of being involved in research extends beyond the lab, with many students taking advantage of opportunities to showcase their work in undergraduate research competitions at Syracuse University, the Syracuse Center of Excellence, and national conferences.

Research Experience for Undergraduates (REU)
The National Science Foundation funds a large number of research opportunities for undergraduate students through its REU Sites program. REU Sites consist of a group of undergraduates who work in the research programs of the host institution. Each student is associated with a specific research project, where he/she works closely with the faculty and other researchers. Students are granted stipends and, in many cases, assistance with housing and travel. Undergraduate students supported with NSF funds must be citizens or permanent residents of the United States or its possessions. An REU Site may be at either a U.S. or international location.

Our students have participated in summer REU programs at these locations:

Binghamton University
Boston University
California State University
Carnegie Mellon University
City College of New York
Columbia University
Cornell University
Eastern Kentucky University
Georgia Tech
MIT
Oregon State University
Portland State University
Purdue University
Rensselaer Polytechnic Institute
Richmond University Medical Center
Stony Brook University
Syracuse Biomaterials Institute
Syracuse University

UConn Center for Environmental Science and Engineering
UMass - Amherst
University of Alabama
University of Arkansas
University of California
University of Cincinnati
University of Colorado Anschutz Medical Campus
University of Delaware
University of Maryland
University of Notre Dame
University of Pennsylvania
University of Pittsburgh
University of Virginia
Upstate Medical University
Woods Hole Oceanographic Institution

Andrew Ramos, Bioengineering Class of 2017, started working in research labs at the Syracuse Biomaterials Institute as a freshman. His main research with Professor Pranav Soman focused on the investigation of new biomaterials for bone tissue engineering applications. Andrew presented his research at conferences across the country, including the annual meeting of the Biomedical Engineering Society and the University of Pennsylvania Honors Diversity Symposium. In graduate school, Andrew is currently pursuing a Ph.D. in biomedical engineering focused on stem cells, genome engineering, and regenerative medicine at the University of Oxford in the United Kingdom.
Cooperative Education

The College of Engineering and Computer Science co-op program provides undergraduate students with an exciting opportunity to not only graduate from Syracuse University with a degree in hand, but to also leave campus with at least two summers of paid work experience.

There are numerous benefits of a co-op experience:
- **Practical work experience** in an area related to a student’s academic interests
- An opportunity to **apply classroom knowledge** in a professional environment
- **Working alongside** professional engineers and computer scientists
- A chance to **build great interpersonal skills**
- An early opportunity to **test career interests and goals**
- Students return to school with a stronger perspective of current demands of industry
- Co-op assignments can lead to permanent jobs and higher starting salaries
- Students who participate have a competitive edge upon graduation
- **Development of personal skills**, including communication, self-confidence, and maturity
- You get paid. While the primary emphasis of the co-op program is to help students gain high-quality, challenging, and rewarding work experiences, the fact that you are engaged in a paid experience is also very appealing. Co-op students receive competitive compensation for their time and talents. Students report earning up to $40/hour over the course of a co-op work assignment.

Job Preparedness

The College of Engineering and Computer Science has a career service office that offers a wide range of career-related services to students, engaging them from their first year and providing support through graduation. We invite our students to take advantage of our offerings so that we can empower them to get the most out of their college experience.

Included in the list of services are:
- Career fairs
- Resume preparation
- Employer networking sessions
- Industry tours
- Interview skills
- Job search strategies
- Job shadowing opportunities
- Cover letter writing
- Negotiating the offer
- Business acumen coaching
- Mock interviewing
- Career fair preparation sessions
From Syracuse to the World

From multinational corporations to startups to national research labs, graduates of Syracuse University’s College of Engineering and Computer Science earn opportunities that fulfill their loftiest career aspirations. Each semester, we host a career fair featuring employers who are specifically looking for engineering and computer science students. Each semester, Syracuse University also hosts a campuswide career fair featuring employers seeking students from many disciplines, including engineering and computer science. Companies seek out our students for co-op experiences and professional positions.

3M
Abbott
Accenture
Advanced Micro Devices (AMD)
AECOM
Air Force Research Laboratory
Alarm.com
Amazon
Amphenol
Anaren
Anheiser Busch
Anoplate
Apple
Arcadis
Argonne National Laboratory
AIS, Inc.
Atlantic Testing Laboratories
AVANGRID
BAE Systems
BNY Mellon
Barnard Construction Company Inc.
Barton & Loguidice
Baxter Nye Engineering & Surveying
Biomedica
Bloomberg LP
BMW
Boeing
Bombardier
Bose
Boston Scientific
Brainlab
Bristol-Myers Squibb
Brookhaven National Laboratory
C&S Companies
CDM Smith
Carrier - United Technologies Corporation
Caterpillar, Inc.
Central Hudson Gas & Electric
The Chazen Companies
Clark Construction
Clough, Harbor and Associates (CHA)
Cognizant
ConforMIS
CONMED Corporation
Consigil Construction
Constellation: An Exelon Company
Corning, Inc.
Cryomech, Inc.
Davis-Standard
Dell EMC
Deloitte Consulting
DuPont
Eaton Corporation
eClinicalWorks
Entergy
Environmental Protection Agency
Epic Systems Inc.
ESENPRO
Excellus Blue Cross Blue Shield
Ernst & Young
Federal Aviation Administration (FAA)
Fidelity Investments
Food and Drug Administration (FDA)
Ford Motor Company
Frito Lay
Fulton
General Electric
General Dynamics Electric Boat
General Motors
GHD
Gilbane Inc.
Glottal Enterprises
Gomez and Sullivan
Google
Green International Affiliates
UTC Aerospace Systems
Harris Corporation
Haverfield Aviation, Inc.
Honeywell
Hudson Valley Engineering (HVEA)
IBM
ICM Controls
INFICON
Infosys
Integrated Medical Devices, Inc.
Intel
International Paper
ITT Corporation
Johnson & Johnson, Inc.
JPMorgan Chase
Kiewit
Kolmar Labs
Knowles Cazenovia
KPMG
Knolls Atomic Power Laboratory
Kraft Heinz
LA County Dept. of Public Works
Langan
Lenovo
Lockheed Martin
Marquardt Switches Inc.
Maryland Department of Transportation
Massachusetts Department of Transportation
Microsoft
MITRE Corporation
Moody’s Analytics
Morgan Stanley
NASA Langley Research Center
National Fuel Gas
National Grid
Naval Sea Systems Command
New York Air Brake
Norfolk Southern
Northeast Structural Steel, Inc.
Northrop Grumman
Novelis
NY State DEC
NY State DOT
NY State Transit Authority
O’Brien & Gere
Oak Ridge National Laboratory
Orchid Design
PAC & Associates
Pall Corporation
Pennsylvania DOT
PepsiCo
Polymer Technologies, Inc.
Pratt & Whitney
Qualcomm
Raytheon Corporation
Raytheon
Regeneron
SAIC
Saab Sensis Corporation
Salient Management Company
Samsung Group
SanDisk
Schlumberger
Schnabel Engineering Inc.
Schneider Electric
Sensing Strategies, Inc.
Sikorsky Aircraft
SmartWatt Energy, Inc.
Space and Naval Warfare Systems Command
SpaceX
Spirit AeroSystems
SRC
St. Joseph’s Health Care
Stantec
Stryker Corporation
Symmetry Medical
Tactair Fluid Controls Inc.
Teach for America
Tectonic Engineering & Surveying Consultants P.C.
Texas DOT
Tishman Construction
Travelers
TRC - Environmental
Tricon Piping Systems
Turner Construction
U.S. Air Force
U.S. Army
U.S. Marine Corps
U.S. Navy
U.S. Nuclear Regulatory Commission
U.S. Patent and Trademark Office
Unique Indoor Comfort
United Space Alliance
US Beverage Net Inc.
UTC Corporation
Verizon
Virgo
VMware
Wadsworth Center, NYS Dept. of Health
Welch Allyn
Weston & Sampson
Whiting-Turner
WSP Parsons Brinckerhoff
Xcel Energy
Xerox
Xylem, Inc.
Zimmer
PREPARED FOR GRAD SCHOOL

Graduate schools are looking for students who are prepared for academic rigor and who are driven by a curiosity and a passion to learn more. Our students stand out because of the strength of the educational experiences in our undergraduate degree programs. The strength of our programs not only prepares students for advanced degrees in engineering or computer science but also for programs in law, medicine, dentistry, and business. Each year, approximately 30 percent of our graduates enroll in an advanced degree program at top universities.

Our graduates from the past several years have enrolled full time in graduate school at the following institutions:

CalTech  Penn State  University of Illinois at Urbana-Champaign
Carnegie Mellon  Princeton University  University of Kansas
Case Western Reserve University  Purdue University  University of Maryland
Columbia University  Rensselaer Polytechnic Institute  University of Massachusetts
Cornell University  Rochester Institute of Technology  University of Michigan
Dartmouth College  Rutgers University  University of New Hampshire
Drexel University  Stanford University  University of North Carolina - Chapel Hill
Duke University  SUNY Upstate Medical University  University of Notre Dame
Emory University  Syracuse University  University of Oxford
Georgia Tech  Temple University  University of Pennsylvania
Harvard University  Texas A&M  University of Pittsburgh
Johns Hopkins University  Tufts University  University of Puerto Rico
KTH Royal Institute of Technology  University of Alberta  University of Southern California
Lehigh University  University at Buffalo  University of Tennessee Space Institute
Marquette University  University of California, Berkeley  University of Texas
MIT  University of California, Davis  University of Texas
Mt. Sinai School of Medicine  University of Chicago  University of Utah
New York University  University of Colorado - Boulder  University of Virginia
Northeastern University  University of Colorado  University of Washington
Northwestern University  School of Medicine  Villanova University
Ohio State  University of Connecticut  Virginia Tech
Oregon State University  University of Florida  Worcester Polytechnic Institute
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