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

Engineering and computer science are at the heart of innovation in the modern world.

The skills our students at Syracuse University acquire from some of the world’s leading experts form the foundation for incredible career opportunities after graduation. Our rigorous and thoroughly rewarding programs provide the perfect opportunity for students with the courage to tackle the problems that will face society in the coming decades.

While math and logic are at the core of our disciplines, Syracuse University’s College of Engineering and Computer Science is a haven for design, creativity and entrepreneurship. We are a tier one research university that includes top communications, policy, business and law programs along with the Blackstone Launchpad, which is a cross-campus program dedicated to helping students start their own businesses.

At Syracuse you can be part of a diverse, inclusive community that strives to give everyone opportunities to succeed in the classroom and in team based projects. Diversity is vital for creative ideas to thrive, and we seek to foster that creativity in every aspect of our college. In addition, every incoming student has access to their own dedicated success, career and faculty advisors.

Our educational philosophy is different from many other schools because we know that classroom lectures are just part of the key to mastering your field. Internships, study abroad, professional immersion trips to meet with alumni in Silicon Valley, New York City and other cities are part of your education at Syracuse. Our classrooms can give you the core skills you will need to solve any problem and our hands-on laboratories, innovation programs, and research opportunities will give you the experience you need to advance.

We can help you make the most of your talent and your potential and then connect you with our incredible network of industry leading Syracuse alumni in engineering and computer science fields around the world. I hope to see you on campus soon!

Sincerely,

J. Cole Smith, Ph.D.
Dean
Our Students

WANT TO SEE THE WORLD
and take selfies while exploring Europe

SEEK
to change the world through research

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

ARE DRIVEN
to excel in the classroom

THRIVE
on collaboration with their classmates and professors

ASPIRE
to a career they love

ARE PREPARED TO CHANGE THE WORLD
### FACTS ABOUT THE COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

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<td>40% OF SYRACUSE STUDENTS STUDY ABROAD</td>
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Exciting Opportunities

Choose from 9 academic majors:

- Aerospace Engineering
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Mechanical Engineering

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.
Syracuse University offers 200+ majors and 100+ minors. Some Engineering and Computer Science students choose to pursue a second major and many add a minor to their course of study. Their second majors are typically from the College of Arts and Sciences. Their minors could be from any academic unit at Syracuse University, including minors in STEM, business, design, and music. In addition, we offer these special opportunities:

**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, have the option of Honors housing, and pursue faculty-guided research or professional work in their field. Learn more at honors.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**
In many disciplines in the College of Engineering and Computer Science, students have the opportunity to complete their B.S. and M.S. in the same discipline in a total of five years. Students apply to the M.S. program during their junior year, and they typically complete two courses in their senior year which will count towards both degrees.
INVENT@SU
Become an inventor in just six weeks:

PROGRAM HIGHLIGHTS
Invent@SU invention accelerators train undergraduate students to “design, prototype, and pitch” as they invent tangible products. Invent@SU follows a proven method of developing students’ abilities to innovate and communicate.

- Design your own patentable device
- Prototype and refine your invention
- Pitch to industry leaders
- Compete to win $5,000
- Sharpen your communication skills

Student inventors are encouraged to connect with the Blackstone LaunchPad, the hub for student entrepreneurship at SU. See LAUNCHPAD.SYR.EDU.

Kayla Simon ‘19 and Elizabeth Tarangelo ‘19 are the co-inventors of In-Spire, a bracelet that works as a wearable asthma inhaler.

LEARN MORE AT INVENT.SYR.EDU
GAIN REAL-WORLD INTERNATIONAL EXPERIENCE

At Syracuse University, you can study engineering or computer science and have an exciting study abroad experience. You’ll take the classes you need for your major (in English), and you’ll make 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.

• Dubai
• Dublin
• Florence
• Hong Kong
• London
• Madrid
• Santiago
• Strasbourg
• Sydney

There are so many things you can learn by traveling outside your comfort zone. By going abroad, you realize that the world is a lot bigger than you might think. For four months, I lived in France with a host family, and I also visited seven new countries. Experiencing new places, languages, and cultures was very eye-opening.

- Lydia Dunbar ’20
Bioengineering
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
- compete in hackathons
- 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 Ambassadors
- Engineering World Health
- Engineers Without Borders
- Innovate Orange
- Institute of Electrical and Electronics Engineers
- National Society of Black Engineers
- Orange Robotics
- ORBiT (Rocket Team)
- 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
- Unmanned Aerial Systems (Drone) Club
Committed to students’ success

We know that students who choose to study engineering or computer science are ambitious and driven. Being a new student is a time for transition, and we want to see our students succeed. Influenced by the efforts of the College of Engineering and Computer Science (ECS) Office of Inclusive Excellence, we have infused diversity, equity, and inclusion in developing programming and offering a high-quality experience for all of our students. Below are some of the programs we have in place to support students’ success.

Advising Team
All students have a team of advisors to support and mentor them throughout their undergraduate career. Each student’s advising team includes a student success advisor, a career advisor, and a faculty advisor.

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.

Engineering and Computer Science Living Learning Community
The Engineering and Computer Science Living Learning Community is a vibrant community of first-year 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.

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

Route 44
Route 44 is a roadmap for students to follow from day one to graduation. Through Route 44, students will meet with their advisors regularly and earn points for themselves and for their team as they unlock achievements and meet milestones that include attending ECS community events, participating in career fairs, and making the Dean’s List. Periodically, prize drawings will be held for top point earners.

Leadership Dialog Circles
The ECS Office of Inclusive Excellence is committed to breaking barriers and building bridges in our community. Through our Leadership Dialogue Circle program, students can gain skills necessary to become more competitive candidates in the global workforce and learn to forge healthier, more effective relationships. This one-credit course facilitates common ground for lasting change by addressing challenging issues of race, ethnicity, and gender head-on through open dialogue.
CHANGING THE WORLD THROUGH RESEARCH
As a Research 1 (R1) university, Syracuse provides many opportunities for undergraduates to engage in significant research. Students can conduct their own research, play an integral role on a research team, or co-author a paper with their professors.

Undergraduate students at Syracuse University have outstanding opportunities to engage in leading-edge research in a multitude of labs. During the academic year and/or summer, undergraduate researchers work alongside professors and graduate students, tackling complex problems and developing innovative solutions and technologies. Many students showcase their work in undergraduate research poster sessions and competitions at Syracuse University and at research conferences across the country. The SOURCE is the hub for undergraduate research opportunities and funding. See RESEARCH.SYR.EDU/SOURCE.

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, Santa Barbara
- 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

Students in the College of Engineering and Computer Science complete co-op and internship positions which often allow them to graduate with two summers of paid work experience. There are numerous benefits of a co-op or internship 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 and internship assignments can lead to full-time careers and higher starting salaries
- Students who participate have a competitive edge upon graduation
- **Development of personal skills**, including communication, self-confidence, and maturity
- In addition to gaining high-quality, challenging, and rewarding work experiences, students are paid very well for their co-op and internship positions.

Job Preparedness

The College of Engineering and Computer Science has a career services office and dedicated career advisors who offer 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
- Alumni mentoring program
- Immersion trips during school breaks
- 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 campus-wide 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 Design Consulting
Advanced Micro Devices (AMD)
Advantage Engineering Associates
AECOM
Air Force Research Laboratory
Air Innovations
AIS, Inc.
Alarm.com
Alliance Consulting Engineers
Aluma Systems
Amazon
Ameren
American Express
Amphenol
Anaren
Anheiser Busch
Anoplate
Anser Advisory
APM Terminals
Apple
Applied Physics Laboratory
Applus+ Technologies
Arcadis
Argonne National Laboratory
Atelier Ten
Atlantic Testing Laboratories
AVANGRID
Badaly Engineering
BAE Systems
Bank of America
Barnard Construction
Barton & Loguidice
Baxter Nye Engineering & Surveying
Belzian Sumberg
Biomedica
Bloomberg LP
BMW
BNY Mellon
Boeing
Bombardier
Booz Allen Hamilton
Bose
Boston Scientific
Brainlab
Bristol-Myers Squibb
Brookhaven National Laboratory
BVH Integrated Services
C&S Companies
Cardinal Health
Carrier - United Technologies Corporation
Caterpillar, Inc.
CDM Smith
Centauri
CHA Consulting
Cisco
Clark Construction
Clough, Harbor and Associates (CHA)
Cognizant
ConforMIS
CONMED Corporation
Consigli Construction
Constellation: An Exelon Company
Cornerstone Environmental Group
Corning, Inc.
Cryomech, Inc.
Daikin Applied
Davis-Standard
Dell EMC
Deloitte Consulting
Dewberry
Dow Chemical
DuPont
Eaton Corporation
eClinicalWorks
EN Engineering
Engineered Building Systems
Entech
Entergy
Environmental Protection Agency
Epic Systems Inc.
ERM
ESENPRO
Estée Lauder
Excellus Blue Cross Blue Shield
EY
Facebook
FDM Group
Federal Aviation Administration (FAA)
Fiat Chrysler Automobiles
Fidelity Investments
Food and Drug Administration (FDA)
Ford AV
Ford Motor Company
Frito Lay
Fulton
GE Aviation
GE Digital
GE Healthcare
GE Power
GE Renewable Energy
General Dynamics Electric Boat
General Dynamics Mission Systems
General Motors
GHG
Gilbane Inc.
Glottal Enterprises
Gomez and Sullivan
Google
Green International Affiliates
Green Mountain Energy
Halma
Harris Corporation
Haverfield Aviation, Inc.
Hayward Tyler
Home Energy Solutions
Honeywell
Hudson Valley Engineering (HVEA)
IBM
IBM Thomas J. Watson Research Center
ICM Controls
INFICON
Infosys
Integrated Medical Devices, Inc.
Intel
Intelicomm
International Paper
Intertek
ITT Corporation
Jacobs
Johnson & Johnson, Inc.
Johnson Controls
JMT
JPMorgan Chase
Katerra
KC Engineering and Land Surveying
Kessel Run
Kiewit
Knolls Atomic Power Laboratory
Knotts Company
Knowles Cazenovia
Kolmar Labs
Korens
KPMG
Kraft Heinz
LA County Dept. of Public Works
Langan
Leidos
Lenovo
Lockheed Martin
Lyophilization Technology
M&T Bank
Marquardt Switches Inc.
Maryland Department of Transportation
Massachusetts Department of Transportation
Massachusetts General Hospital
Mayr
McKim & Creed
Meagher Engineering
Medtronic
Microsoft
MITRE Corporation
Metropolitan Transportation Authority (MTA)
Modis
Moody’s Analytics
Morgan Stanley
Mohawk Global Logistics
Nan, Inc.
NASA Jet Propulsion Laboratory
NASA Johnson Space Center
NASA Langley Research Center
National Fuel Gas
National Grid
Naval Sea Systems Command
Naval Sea Systems Command (NAVSEA)
Newport News Shipbuilding
New York Air Brake
NFT
NICE Actimize
Norfolk Southern
Northeast Information Discovery
Northeast Structural Steel, Inc.
Northrop Grumman
Novelis
NYC Department of Environmental Protection
NYC Department of Transportation
NY Independent System Operator
NY State DEC
NY State DOT
Oak Ridge National Laboratory
Oracle
Orchid Design
Orion Health
O’Brien & Gere
PAC & Associates
Pall Corporation
Panasonic Automotive Systems Co.
Parsons
Pennsylvania DOT
PepsiCo
Pfizer
Plastic-Craft Products
Polymer Technologies, Inc.
Port Authority of NY & NJ
Pratt & Whitney
Procter & Gamble
Project Farma
Qualcomm
Quantlab
Rapid Response
Raymond Corporation
Raytheon
Regeneron
Revature
RRT Design & Construction
Saab Sensis Corporation
SAIC
Salesforce
Salient Management Company
Samsung Group
SanDisk
Schlumberger
Schnabel Engineering Inc.
Schneider Electric
Sensing Strategies, Inc.
SIDEARM Sports
Siemens Gamesa
Sierra Nevada Corporation
Sikorsky Aircraft
SmartDrive Systems
SmartWatt Energy, Inc.
Snap, Inc.
Space and Naval Warfare Systems Command
SpaceX
Spirit AeroSystems
Splunk
SRC
St. Joseph’s Health Care
Stantec
Staples, Inc.
Stryker Corporation
Symmetry Medical
Tactair Fluid Controls Inc.
Takeda Pharmaceuticals
Tata Consultancy Services
Teach for America
TECT Power
Tectonic Engineering & Surveying Consultants P.C.
Texas DOT
Textron Aviation
Thales Group
The Chazen Companies
Tishman Construction
Tradebe
TranSystems
Travelers
TRC Companies
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 Air Conditioning
United Launch Alliance
United Parcel Service (UPS)
Upstate Refractory Services
USAA
US Beverage Net Inc.
UTC Aerospace Systems
United Technologies Corporation (UTC)
Valmet
Verizon
Vidar
Virgin Orbit
Virgo
VMware
Wabtec Corporation
Wadsworth Center, NYS Dept. of Health
Walsh Group
Walt Disney Imagineering
WB Engineers+Consultants
Welch Allyn
Westinghouse Electric Company
Weston & Sampson
Whiting-Turner
World View
WSP
Xcel Energy
Xerox
X-Ray Optical Systems (XOS)
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 25 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
- Carnegie Mellon
- Case Western Reserve University
- Colorado School of Mines
- Columbia University
- Cornell University
- Dartmouth College
- Drexel University
- Duke University
- Emory University
- Georgia Tech
- Harvard University
- Johns Hopkins University
- KTH Royal Institute of Technology
- Lehigh University
- Marquette University
- MIT
- Mt. Sinai School of Medicine
- New York University
- Northeastern University
- Northwestern University
- Ohio State
- Oregon State University
- Penn State
- Princeton University
- Purdue University
- Rensselaer Polytechnic Institute
- Rochester Institute of Technology
- Rutgers University
- Stanford University
- SUNY Upstate Medical University
- Syracuse University
- Temple University
- Texas A&M
- Tufts University
- University of Alberta
- University at Buffalo
- University of California, Berkeley
- University of California, Davis
- University of Chicago
- University of Colorado - Boulder
- University of Colorado - School of Medicine
- University of Connecticut
- University of Florida
- University of Illinois at Urbana-Champaign
- University of Kansas
- University of Maryland
- University of Massachusetts
- University of Michigan
- University of New Hampshire
- University of North Carolina - Chapel Hill
- University of Notre Dame
- University of Oxford
- University of Pennsylvania
- University of Pittsburgh
- University of Puerto Rico
- University of Southern California
- University of Tennessee Space Institute
- University of Texas
- University of Utah
- University of Virginia
- University of Washington
- Villanova University
- Virginia Tech
- Worcester Polytechnic Institute
My favorite accomplishment of my SU education was being able to conduct an independent research study as an undergraduate. I was able to be the project manager and lead engineer for my study, collect data, analyze data, and test my own hypotheses. Syracuse taught me that it’s okay not to know the answer right from the beginning. I learned that all the engineering problems are not necessarily “cookbook” problems and you have to use your resources and do research in order to find the answers. Syracuse taught me how to be creative and think outside the box to find solutions. I love the school pride and the family feel. No matter how many years ago you graduated from SU, you will always be part of the Orange Family.

Syracuse University gave me a fantastic foundation for engineering fundamentals. Operating both electrical systems and thermal systems for the International Space Station requires a great understanding of the fundamentals of two very different types of systems. Syracuse University’s motto is truly what it means to me, “Suos Cultores Scientia Coronat” or knowledge crowns those who seek her. I learned to work hard but also learned to love cheering for the Orange teams in the Carrier Dome. Coming from the West Coast, I loved walking around the campus throughout the year because each season highlighted a different part of SU that was so fun to explore.

My favorite professors were very unique with their teaching techniques. For example, Professor Shobha Bhatia assigned several projects that were collected from local engineering firms, and we worked through these real-life problems using course concepts. I also really enjoyed my research with Dr. Bhatia. Undergraduate research definitely helped improve my technical writing skills and data collection/management. I chose Syracuse because of our incredible school spirit (I happened to tour on a game day). I love how crazy and hype the campus gets for any game - tailgating, pep rallies, and how much we celebrate (win or lose) for days!
Sadé C. Johnson ’17
Computer Science
Software Engineer
JPMorgan Chase & Co.

Being heavily involved in the National Society of Black Engineers (NSBE) at SU had a major impact on my overall success. Not only did my mentors in the program equip me with the necessary tools to reach my full academic potential, they also provided me with an innumerable amount of professional development opportunities that led me to where I am today. The Computer Science curriculum ultimately set me up to achieve my definition of success. As a student, I did not understand why I was being assigned so many difficult assignments in nearly every single class, but retrospectively I see that my professors were developing my problem solving skills that I am now able to tap into when presented with technical issues as a software engineer.

Syracuse University is an amazing place because there are so many resources available to students.

Chris McCarthy ’15
Electrical Engineering
RF Payload Engineer, Lockheed Martin Space Systems Company

I didn’t know what I truly liked about engineering until I met Dr. Jay Lee in his electromagnetics class. Dr. Lee believed in me, inspired me, and ignited my passion for RF. My lab work gave me the crucial skills to problem solve in real time and collaborate with other engineers. Also, the SU Marching Band made me feel at home in college. We traveled to all sorts of places and played at venues that most band students dream about: four different NFL stadiums, a Super Bowl performance, and an early morning cadence in Times Square. SU was more than just an academic environment that helped me thrive and be the best engineer I could be. It was about the friends I made, the professors I laughed with, and the victories I celebrated in the Carrier Dome. It was listening to the evening Crouse bells chime through the alma mater while walking past the student center under the orange sunset.

Nathaniel Rose ’14
Computer Engineering
Software Developer, Big Data, Microsoft

Syracuse gave me the space to explore different interests across a wide range of disciplines. As a multi-faceted individual whose interests range from political science & philosophy to deep learning & discrete mathematics, I was afforded the opportunity to develop a wide range of skills that made me competitive in pursuing my career. Syracuse celebrates those who “think outside of the box,” go against the grain, and pursue their own endeavors. If you have a great idea, are interested in working with innovative students, or simply want to learn about new things, ‘Cuse has it all. I was able to maneuver from teaching STEM lessons at Syracuse high schools with my National Society of Black Engineers team on a Saturday morning, to working in a lab on an FPGA board that visualized audio frequencies during the day, and DJing for events at night. These are dear memories of my time on campus at ‘Cuse. However imaginative you believe your years at Syracuse can possibly be, ‘Cuse can provide the opportunity to pursue them.
Through my undergraduate research experience under the mentorship of Professor Alan Levy, I learned to connect classroom knowledge to real-world problems. My Syracuse education provided me with the engineering mindset to fearlessly tackle any complex problems and analyze their individual parts. In my current job, I am responsible for understanding and analyzing the dynamics of combined cycle power plants, and I am constantly challenged with new problems with multiple variables. Another highlight was my involvement in the Society of Asian Scientists and Engineers (SASE), which provided me with a platform for leadership (when I served as President) and for cultivating an environment for student success in the workplace and higher education. SU gave me a safe, supportive, and fun space to get out of my comfort zone and challenge myself with new academic endeavors, student organization involvement, Orange After Dark events, basketball games at the Dome, and new restaurants on Marshall Street.

During my time at Syracuse, I discovered two things that guarantee success: Stepping outside of your comfort zone and surrounding yourself with great people. Syracuse University allowed and encouraged me to do both! I came to college as a shy and timid freshman, but I left as a confident and successful leader who was prepared to take on the world. The faculty and staff in the College of Engineering and Computer Science are amazing. They are the type of people who go above and beyond to ensure the success of students. We have a school-spirited recruitment team, passionate student success advisors, and inspirational professors who work together to make Link Hall feel like home. My education at SU gave me the skills necessary to solve complex engineering problems and also taught me the power of collaboration. I have found this to be the most beneficial part of my education. I have held several different positions since graduation, and each has given me the opportunity to work closely with others on a daily basis.

Working in the Biomaterials lab with Dr. Jay Henderson, I was able to connect what I was learning in the classroom to research applications. This research allowed me to gain knowledge about polymer science as well as experience with presenting and technical writing. After having those opportunities in college, I now feel very comfortable presenting results within my team and upper management at Boston Scientific. Currently, I visit hospitals to observe and ask questions about the procedure we are designing devices for. I worked with a physician during my senior design project which was helpful in understanding how to interact with physicians in my job. Attending all of the Syracuse football and basketball games was another big highlight of my experience at SU! There is nothing like being part of a sea of Orange fans in the Carrier Dome. Syracuse has such a large community of alumni all over the world, too. I moved to Boston after graduation, and the SU alumni chapter here hosts fun game watch parties and networking events all the time.
SCHOLARSHIP OPPORTUNITIES

ECS Leadership Scholars

Engineering and Computer Science Leadership Scholars receive a significant merit scholarship as well as special research, mentoring, and networking opportunities. Leadership Scholars are empowered to lead innovation at the intersection of technology and people.

ECS Ambassador Scholars

Engineering and Computer Science Ambassador Scholars receive a significant merit scholarship as well as internship and K-12 STEM outreach opportunities. Ambassador Scholars are empowered to inspire younger students from historically underrepresented groups to pursue engineering and computer science.

FIRST Scholars

Syracuse University allocates ten scholarships annually to first-year students who participate in FIRST programs — FIRST Tech Challenge (FTC) or FIRST Robotics Competition (FRC) — who are applying to an engineering or computer science major. Students must submit the FIRST Scholarship form to be eligible for a FIRST Scholarship.

Project Lead The Way Scholars

Syracuse University allocates ten scholarships annually to first-year students who have taken at least two Project Lead The Way courses in high school and who are applying to an engineering or computer science major. Students must submit the PLTW Scholarship form to be eligible for a PLTW Scholarship.

All merit scholarships are renewable for four years, based upon Syracuse University’s merit scholarship renewal guidelines. For more information on scholarships and financial aid, see www.syracuse.edu/financialaid.