



# ENGINEERING & COMPUTING



**Molinaroli College of  
Engineering and Computing**  
UNIVERSITY OF SOUTH CAROLINA



"I chose to attend USC and major in engineering because of the small class size combined with the passionate faculty who offer one-on-one attention to their students. My biggest advice to freshmen is to get involved – whether that's asking a professor to take part in their research or playing an intramural sport. Just don't be afraid to try new things!"

**Sean**

Electrical Engineering

## VISIT

The best way to learn more about the great opportunities we offer is to visit us in person. Take a daily tour of the college or attend our Big Friday. You can also explore the college through our YouTube channel and other social media. Find more information about these options at [cec.sc.edu/visit](https://cec.sc.edu/visit).

## APPLY

All undergraduate students must apply to USC through the Office of Undergraduate Admissions. Because the admissions process is competitive, USC does NOT set or publish absolute admissions standards. The Molinaroli College of Engineering and Computing does not have additional admissions criteria for freshman applicants. Transfer student admissions criteria depend on the major program chosen. Find out more at [sc.edu/apply](https://sc.edu/apply).

## SCHOLARSHIPS

Each year, the Molinaroli College of Engineering and Computing awards thousands of dollars in scholarships ranging from \$500 to \$5,000 per year for up to four years, and they can supplement state and university scholarships. With the exception of a few scholarships that require separate applications, you need only complete one general scholarship application to be considered for these college scholarships, but you do need to apply to be eligible.

Incoming freshmen are considered for scholarships based upon merit indicators such as high school GPA and SAT/ACT scores. For current and transfer students, preference is given to students who have demonstrated excellence in college-level course work. Go to [cec.sc.edu/scholarships](https://cec.sc.edu/scholarships) for more information.

**NEARLY \$1M IN ENGINEERING & COMPUTING  
SCHOLARSHIPS AWARDED IN 2023**

The Molinaroli College of Engineering and Computing will prepare you to develop new, innovative technologies that will improve our lives and the world. Our undergraduate degree programs offer the training and hands-on experience you need to have a profound impact on the world.

The Molinaroli College of Engineering and Computing offers outstanding bachelor's degree programs, minors and accelerated graduate degrees.

## MAJORS

You can choose from these undergraduate areas of study:

### AEROSPACE ENGINEERING

design, manufacture and test aircraft, aerospace systems and components

### BIOMEDICAL ENGINEERING

combine the innovative skills of engineering with medical and biological sciences to improve healthcare around the world

### CHEMICAL ENGINEERING

create processes and products that are safe, environmentally friendly, energy efficient and economical

### CIVIL ENGINEERING

analyze, plan, design and build the infrastructure of our society

### COMPUTER ENGINEERING

integrate principles of computer science and electrical engineering to develop computer hardware and software

### COMPUTER INFORMATION SYSTEMS

work at the intersection between business and technology with a focus on practical applications of computing to support organizations

### COMPUTER SCIENCE

design computer software and advance the underlying scientific principles of computation

### ELECTRICAL ENGINEERING

apply the principles of electricity, electronics and electromagnetics to the flow and transformation of information and energy

### INDUSTRIAL ENGINEERING

design and improve complex systems integrating people, machines, materials, information, and energy

### INTEGRATED INFORMATION TECHNOLOGY

integrate the areas of system design and implementation, network support and administration, database systems, website design and management, corporate training and development and health information technology

### MECHANICAL ENGINEERING

design, develop, build and test systems with motion that advance a broad range of energy, transportation, manufacturing and research fields

3000

ENGINEERING & COMPUTING  
UNDERGRADUATES IN  
THE FALL OF 2023

\$72.6K

AVERAGE STARTING SALARY OF  
ENGINEERING & COMPUTING  
GRADUATES IN THE CLASS OF 2023

To find out more about our undergraduate programs, visit [cec.sc.edu](http://cec.sc.edu).

## STUDENT EXPERIENCE

Engineering and computing clubs, professional societies and teams are an excellent way to interact with other students with similar interests and majors. Friendships and connections formed during college through membership and participation will have far reaching benefits in your future career. The Wired Café, machine shop, and dozens of study spots are available for undergraduate students. We also support an engineering and computing living and learning community housing option.

## STUDENT SUCCESS

Our Peer Mentorship Program matches first-year students majoring in engineering or computing with continuing students, setting you up with a support network from day one. Professional academic advisors, faculty advising fellows, and a centralized Student Services staff will assist you in curriculum planning and professional development. A drop-in tutoring center provides the resources you need for success in your classes. Over 51% of the college's students graduate with cum laude, magna cum laude and summa cum laude honors.

## STUDY ABROAD

Engineering and computing students study abroad around the world, including our exchange partner institutions in Australia, Spain and the United Kingdom.

## CAREER CENTER

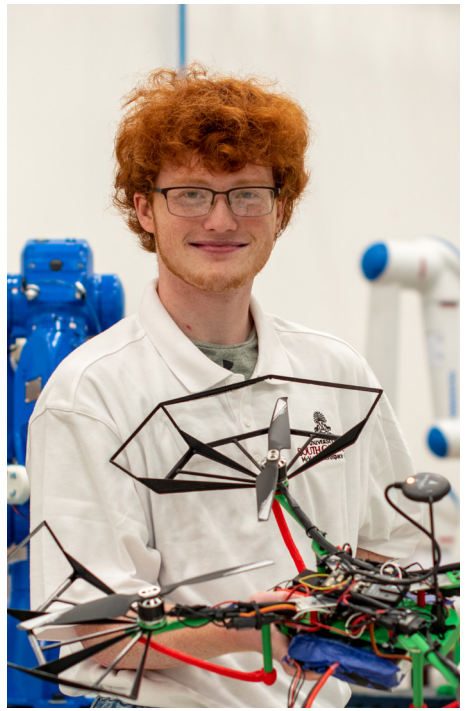
The university's Career Center has a satellite office in our Swearingen Engineering Center that focuses specifically on our students and the companies that hire them. The Career Center helps students with resume writing, interview preparation, job fairs, career exploration, internships, co-ops, graduate school preparation and more. Engineering and Computing students have great job offers or graduate school acceptance before graduation.



## MINORS

Engineering and computing students can choose from more than 80 minors from across the university:

- Aerospace Engineering**
- Applied Computing**
- Chemical Engineering**
- Computer Science**
- Cybersecurity Operations**
- Data Science**
- Electrical Engineering**
- Environmental and Sustainable Engineering**
- Integrated Information Technology**
- Mechanical Engineering**
- Nuclear Engineering**



## HONORS COLLEGE AND CAPSTONE SCHOLARS

More than one-third of engineering and computing freshmen are also members of the South Carolina Honors College or Capstone Scholars program. These students may receive scholarships and grants for undergraduate research. Capstone Scholars live in Capstone House and Columbia Hall and are offered a variety of academic, engagement and social opportunities. Honors students live in the Honors Residence and are offered premium academic opportunities such as smaller classes and early class registration.

## RESEARCH

Undergraduate research gives students hands-on learning experiences while they work with faculty experts. Undergraduate students make important contributions to our research efforts by completing independent study courses, working in grant-funded research positions, and participating in university-sponsored undergraduate research scholarship and educational programs. The Office of Undergraduate Research assists students seeking projects and facilitates funding.

## ACCELERATED GRADUATE DEGREES

Undergraduate students can complete both the bachelor's and master's degrees in as few as five years. The use of dual credit — courses that can be used toward both degrees — can reduce the total enrollment of the student by one semester.

**\$70M**

IN RESEARCH FUNDING

**580**

TOTAL GRADUATE  
ENROLLMENT IN THE  
FALL OF 2023



**For more information**  
Student Services  
803-777-4177  
[studentservices@cec.sc.edu](mailto:studentservices@cec.sc.edu)

[cec.sc.edu/experience](http://cec.sc.edu/experience)  
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