THE WORLD OPENED WIDE
ENGINEERING AT RUTGERS
We Tackle the Big Challenges of Today  Building sustainable infrastructures, discovering alternative energy sources, moving 5G wireless networking forward, developing life-saving medical devices, implementing biologically inspired engineering methods, and so much more.
At Rutgers School of Engineering you will build a solid foundation of mathematical, scientific, and technical knowledge along with opportunities to engage in meaningful research alongside faculty members. You will find your passion through an immersive first-year course that introduces you to 10 diverse engineering majors. You will also be part of a tight-knit community of students, faculty, and advisers eager to support you every step of the way. And, as you move through the program, the nation’s leading corporations and research centers recognize our students’ talents with competitive internships and co-ops, making students career-ready even before graduation.
Engineering is a diverse field with many opportunities that can engage a student’s unique interests and launch successful careers. Discovering all that engineering has to offer is an important part of the first-year engineering program at Rutgers.

Undergraduate students take a common core curriculum of courses during their first year of study. Courses include foundational studies in calculus, chemistry, physics, programming, English, and other requirements. Students declare their engineering major at the end of the second semester.

Engineering students can also pursue a dual degree or minor in a variety of programs from across the Rutgers academic portfolio. A bachelor’s/master’s degree options lets you expedite an advanced degree with as little as one extra academic year.

Top-notch faculty members bring experience, expertise, and enthusiasm into the classroom, instilling in students the most fundamental of engineering skills—how to tackle and solve problems.

In addition to distinguished scholarship, engineering faculty members hold numerous patents and regularly develop innovative systems and devices with outside corporate partners.

The Engineering Honors Academy offers accelerated courses in physics, calculus, and engineering with the opportunity to take part in the prestigious J.J. Slade Scholar research program during junior and senior years.
The Future is Now. Cutting-edge research is happening across all of our engineering disciplines from designing critical infrastructure that protects power grids from cyberattacks to the development of biosensors for detecting and treating cancer. Advanced labs allow for research on adapting to rising sea levels, advanced manufacturing and 3D printing, regenerative medicine, data analysis and computing, rare earth materials, and so much more.
You will have opportunities to work on cutting-edge, funded research projects alongside professors and graduate students—with some students publishing research as undergraduates.

You will have access to the School’s more than 50 advanced laboratories and renowned research centers. Nationally-recognized centers address infrastructure and transportation, energy systems, wireless communication, materials, and advanced manufacturing.

You’ll solidly take root in our connected community. All first-year students can choose to live in one of two engineering-dedicated Busch Campus residence halls, among other housing options. Undergraduate women residents who opt into the Reilly-Douglass Engineering Living-Learning Community can also take part in special projects and classes.

Watch this Space  Brooke Owens Fellowships were awarded to Marissa Navarro-Jauregui (electrical and computer engineering) and Katie Welch (mechanical and aerospace engineering), School of Engineering exceptional undergraduate women in aerospace selected for their talent, experience, and creativity. Each received a paid internship working at a leading company and executive mentoring.
Experiential internships and cooperative programs are central to an engineering education. Our students regularly gain invaluable real-world experience at some of today’s most innovative and exciting companies and research agencies, both in the metropolitan region and across the country.

More than 40 extra-curricular student groups—including honor societies, student chapters of professional organizations, and national associations such as Engineers Without Borders and Engineers in Action—offer social and professional activities, as well as leadership opportunities. Student organizations like Rutgers Formula Racing and Rutgers Solar Car compete nationally alongside top-tier universities.

Outside of engineering, Rutgers offers more than 400 clubs and organizations to meet unique interests.
The Age of Exploration  As an Engineering Honors Academy member, Forest embarked on a research project to develop a table tennis-playing robot. His final creation can serve up to 50 balls anywhere on the opposing side of the table, using three motors to generate four types of spin.
BUILD COOL STUFF

Smart classrooms, state-of-the-art labs, and facilities provide a learning-centric environment that is focused, collaborative, interdisciplinary, and supportive.

Concept labs are where the fun happens. Exclusively the domain of students, team-based projects come to life in an open, creative space.

The Engineering Projects Studio (coming in 2021) is for scale-size projects like solar and Formula race cars.

Wet labs and a cleanroom allow for work in pharmaceuticals, micro- and nano-processing, tissue research, and therapeutics.

A Place to Soar  The School of Engineering is ranked among the top 50 engineering programs in the country (US News & World Report) and Rutgers is the only public university in New Jersey to offer an aerospace engineering program. The student-led Space Technology Association of Rutgers (STAR) participates in a broader community of students, using expertise from universities around the country to build and launch a rocket that can break the Karman Line, which is the boundary between Earth’s atmosphere and outer space at 330,000 feet.
UNDERGRADUATE MAJORS AND PROGRAMS

Applied Sciences
  Packaging Engineering

Aerospace Engineering

Environmental Engineering
  (joint program with School of Environmental and Biological Sciences)

Biomedical Engineering
  Biomedical Computing, Imaging, and Instrumentation
  Biomechanics and Rehabilitation Engineering
  Tissue Engineering and Molecular Bioengineering

Chemical Engineering
  Biochemical Engineering

Civil Engineering
  Structural Engineering
  Geotechnical Engineering
  Transportation Engineering
  Construction Management

Electrical and Computer Engineering
  Electrical Engineering
  Computer Engineering

Industrial Engineering
  Financial Systems
  Manufacturing Engineering

Materials Science and Engineering
  Biomaterials
  Nanomaterials
  Polymers
  Fiber Optics
  Manufacturing
  Specially Designed Program

Mechanical Engineering
  Energy

CONNECTED COMMUNITY

Smart, ambitious, and thoughtful people from all over come together to create a campus community that’s diverse, energetic, and inclusive.

Celebrate Engineering  National Engineers Week at Rutgers is a chance to showcase what makes the School of Engineering great and to celebrate our community with fun events and some friendly competition—including a Rube Goldberg competition and cardboard canoe races.

Photography: Robert Benson, Bill Cardoni, Deborah Feingold, Don Hamerman, Lance King, Daniel Lopez, Peter Murphy, Nick Romanenko
LIKE WHAT YOU SEE? APPLY!

Fall Application Due Dates
First-Year, Early Action November 1
First-Year, Regular December 1
Transfers February 1

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Questions?
Connect with an SoE Student Ambassador via email and get student-to-student responses to your questions.
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