Electrical engineering and computer engineering are at the core of just about every technology. Harnessing the power of electricity to advance the modern world, electrical engineering involves the design of devices and systems, from nanoscale computer chips to multinational communications systems. Spanning across the fields of electrical engineering and computer science, computer engineering combines the advanced intelligence of computer systems with the fundamental aspects of electrical engineering to deliver intricate and expansive solutions.

That smartphone in your hand. That magical new technology that’s helping to cure cancer. That elegant solution to deliver clean drinking water. Even that “cloud” where all your data, music, and documents live. At Georgia Institute of Technology, electrical and computer engineering is all about turning...

We are by nature a curious and passionate bunch — tinkerers, creators, and magic-makers. We love the power and possibilities that GT ECE unlocks — the elemental solutions and expansive ideas at the core of just about everything. In many ways, the world counts on us to be the power source that fuels modern technology.

GT ECE students are among the brightest in the country — fresh, agile minds that join an established community of creative, industrious thinkers and doers. The undergraduate program is built to feed and nurture those strengths, delivering a curriculum that is unsurpassed in flexibility, depth, and scope.

Interdisciplinary by nature, electrical and computer engineering intersects with computer science, physics, chemistry, biology, and mathematics. Our programs are designed to help students build a solid foundation in the fundamentals of engineering science, then hone the skills needed to put these principles into action — solving real-world issues and “creating the next.” Elective hours allow students to create tailored programs that connect with specific — and incredibly varied — areas of interest. Majoring in computer or electrical engineering provides students with broad knowledge and versatility that translate to jobs in virtually any industry.
LIMITLESS APPLICATION, REAL DEMAND

Across the board, electrical and computer engineers are in high demand — the need for qualified graduates is already outpacing the output and labor forecasts point to continued growth. As one of the consistently top-ranked programs in the world, Georgia Tech graduates have a reputation that makes our students some of the most sought after in the country.

Georgia Tech’s annual career fairs attract over 1,200 participating employers who vie for our graduates every year. A GT ECE graduate has innumerable exciting paths to follow after graduation, with leading corporations, graduate programs, government agencies, and even creating their own jobs and businesses.

- Consistent top rankings by U.S. News & World Report
- Recession-proof careers
- Among the highest starting salaries of any engineering profession
- Entry into top graduate engineering programs and business, medical, and law schools

DIVERSE INTERESTS, INTERESTING OPTIONS

GT ECE is organized into 11 technical interest groups that encompass the full depth and breadth of electrical and computer engineering. Each area includes faculty members recognized as world leaders in their field. Our students have the opportunity to learn from and research with some of the brightest minds in these areas.

TECHNICAL INTEREST GROUPS INCLUDE:
- Bioengineering
- Computer Systems & Software
- Digital Signal Processing
- Electrical Energy
- Electromagnetics
- Electronic Design & Applications
- Microelectronics/Microsystems
- Optics & Photonics
- Systems & Controls
- Telecommunications
- VLSI Systems & Digital Design

APPLICATIONS INCLUDE:
- Computer Networks
- Consumer Electronics
- Energy & Environment
- Space Exploration
- Transportation
- Robotics
- Cyber Security
- Medical/Assistive Devices
[ INNOVATIVE EDUCATION ]

UNDERGRADUATE RESEARCH

GT ECE’s Office of Undergraduate Research gives students real-world research experience in fields directly related to their major, earning credit or financial compensation along the way.

HANDS-ON EDUCATION

We are a leader in integrating student-owned devices into lecture-based courses. Our curriculum includes classes that use a digital acquisition board or microcontroller kit, allowing students to work on projects and experiments both in and out of the classroom.

REAL-WORLD EXPERIENCE

Senior undergraduate students apply knowledge and skills from coursework to solve real-world challenges in the two-semester Senior Design course sequence. Working in multidisciplinary teams, students complete a project requiring specification, design, implementation, and testing. The student teams’ efforts are showcased at an end-of-semester Capstone Design Expo, which is the largest in the country.

ENTREPRENEURIAL CONFIDENCE

In addition to preparing students to hit the ground running in industry, we also equip them with one of the most important life skills — the ability to create their own jobs. Competitions like InVenture Prize and popular courses such as Startup Lab and Startup Summer, teach students how to create a startup from customer discovery all the way to a minimum viable product.

[ REWARDING OPPORTUNITIES ]

A vibrant community of like-minded faculty and students welcomes new students to GT ECE. Whether their interests lie in pursuing undergraduate research, studying overseas, or joining a lively student group, many opportunities abound to supplement traditional academics and enhance their GT ECE experience.

[+] STUDY OR WORK ABROAD, LIKE 50 PERCENT OF GEORGIA TECH STUDENTS DO.

[+] JOIN THE COUNTRY’S LARGEST VOLUNTARY CO-OP/INTERNSHIP PROGRAM.

[+] PARTICIPATE IN ONE (OR MORE) OF GEORGIA TECH’S 300+ STUDENT ORGANIZATIONS.

[ APPLY TO... ]

Inquiries regarding admission to Georgia Tech should be addressed to:

Office of Undergraduate Admission | Georgia Institute of Technology
Atlanta, GA 30332-0320
Phone: 404-894-4154 | Email: admission@gatech.edu
www.admission.gatech.edu

Scan the code to see how GT ECE is POWERING WHAT’S NEXT.
Georgia Tech is located in the heart of Atlanta — a truly unique city and a hub for technology, industry, and entrepreneurship. As a major international access point and home to a number of Fortune 500 companies, Atlanta is an amazingly diverse city, embracing a vivid tapestry of cultures and lifestyles. Atlanta integrates amazing natural beauty with a variety of urban landscapes, from soaring cityscapes to cozy, local neighborhoods. Atlanta’s cultural and social experiences have something to offer everyone, including professional sports teams, music, art and food festivals, expansive public parks, a symphony orchestra, opera, live theater and dance troupes, superb restaurants, and exciting nightlife.