DEPARTMENT: ELECTRICAL AND TELECOMMUNICATIONS ENGINEERING TECHNOLOGY

As a member of the **Department of Electrical and Telecommunications Engineering Technology** you will join a group of students who are part of the **School of Technology and Design** at New York City College of Technology, City University of New York.

Mission: to provide academic, technological, and cultural resources and experiences to the students of the programs we offer in high quality electrical engineering technology and telecommunications engineering technology programs. The department is dedicated to successfully educating students of diverse backgrounds and cultures for entry in the electrical and telecommunications engineering technology industries. Through excellence in teaching and innovative use of technology, the department is committed to supporting an open environment where learning, creativity, and personal growth can flourish, thus benefiting our students, our college, and our community.

What is Electrical Engineering Technology (EET)?

With an **AAS degree**, a technician may suggest design modifications to facilitate production, perform design calculations for engineers, prepare specifications for materials and components, drafting, estimate cost of design alternatives and help write user and technical manuals for electronic equipment users, plot graphs of test results and write reports, inspect and calibrate test equipment, being a technical field representative.

Additionally, with a **BTech degree,** an electrical technologist goes even further by researching, designing, and evaluating complex problems that require knowledge of a whole range of technologies including power, control, remote sensing, and embedded systems, or mechatronics.

What is Telecommunications Engineering Technology (TCET)?

After obtaining an **AAS degree**, a telecommunications engineering technician is able to install, test, maintain and operate a wide spectrum of telecommunication networks for voice, data and video transmission and networking, as well as to understand the technical principles and theories on which these devices and systems are based.

Furthermore, with a **BTech degree,** a telecommunications engineering technologist may work as technical operations manager, network designer, network operations manager, systems technologist, traffic analyst, data

communications manager and telecommunications consultant, and fiber optic technician.

Students in the Department of Electrical and Telecommunications Engineering Technology are provided with important resources including digital instruments such as oscilloscopes, multimeters, power supplies, generators, spectrum analyzers, vector signal generators/receivers, as well as computer labs with software such as MATLAB®, Multisim®, LabView®, Quartus® II, PSpice. Tutoring and other resources are also provided.

Students can join department clubs such as Institute of Electrical and Electronics Engineers (IEEE) club, National Society of Professional Engineers (NSPE) club, and the Electronics Technician Association (ETA) club.

Options for Employment and Further Study

Some of the career titles that students who complete an AAS degree from the ETET department can obtain:

- Computer Service Technician
- Electrical Drafter
- Electrical & Electronics Engineering Technician
- Electrical & Electronics Tester
- Calibration & Lab Technician
- Technical Representative
- Manufacturing Specialist
- Test & Bench Technician
- Customer Service Representative
- Field Service Technician

Electrical Engineering Technology: Potential employers of the graduates of this program include a variety of companies such as Con Ed, IBM, ITT, Avaya, USPS, NYPD, MTA, JPMorgan Chase CODEX, Bank of America, GE, Verizon, Honeywell, Northrop Grumman, US Steel, Western Electric, Westinghouse, and General Motors.

Telecommunications Engineering Technology: Potential employers of the graduates of this program include LIRR, MTA, Citicorp, Board of Education, Verizon, AST, Western Union, SIAC, Avaya, NYPD, JPMorgan Chase, US Steel, Western Electric, Westinghouse, and General Motors.

To learn more about the job opportunities as well as other resources available to ETET students, refer to the following link: http://www.citytech.cuny.edu/electrical-telecomm/student-resources.aspx

Faculty in the Department of Electrical and Telecommunications Engineering Technology have an interest in various research areas. Please visit our faculty profile page located at http://www.citytech.cuny.edu/electrical-telecomm/faculty.aspx.

Fun Facts

- ✓ Three active members of ETA International/NSPE clubs (one from TCET-BT Program and two from EET-BTech Program) passed the FE Exam since Spring 2019 and qualified for the State IE (Internship for Engineering) Exam as well. They have been employed by LIRR, MTA, and IT companies as a Junior Engineer, Project Manager, and IT Technologist, respectively.

- ✓ The ETET department also has articulation agreements with several CUNY colleges. Presently the graduates from the following two CUNY colleges can continue their studies towards BTech in ETET department at CityTech:
  Bronx Community College and City Tech Transfer Articulation Agreement
  Queensborough Community College and City Tech Transfer Articulation Agreement

- ✓ CUNY BA: CUNY Baccalaureate for Unique and Interdisciplinary Studies (CUNY BA, established in 1971) is a University-wide, individualized degree. It is an exciting, versatile, rewarding degree route for highly-motivated, self-directed students whose academic goals transcend traditional majors. CUNY BA attracts many of the best students from within and from outside the University. For more detailed description of this program and to learn how to apply, refer to the following website: https://cunyba.cuny.edu/fastfacts/