Hillsborough Community College
Tampa, Florida

LASER-TEC is the Center for Laser and Fiber Optics Education, founded in 2013 by the National Science Foundation (NSF) and headquartered at Indian River State College in Florida. It was established to help meet the goals of educating and sourcing domestic talent in the areas of optics and photonics. As a service to students, recent graduates, and prospective employers, Photonics Spectra *runs a profile of one of the LASER-TEC colleges each month.*

Hillsborough Community College (HCC) offers an electronics engineering technology Associate of Science degree and a Laser and Photonics Technician Certificate. The coursework of the certificate program applies to the electronics engineering technology Associate of Science degree program. Students find jobs at companies such as Raytheon, Honeywell, Crystal Movers, and Sensor Systems.

Programs

Electronics Engineering Technology Associate of Science degree

This degree program prepares students for an entry-level position as an electronics engineering technician able to assist engineers in planning, research, development, and design.

The coursework focuses on the skills needed to troubleshoot electronics equipment and to perform operations, calculations, testing, and reporting.

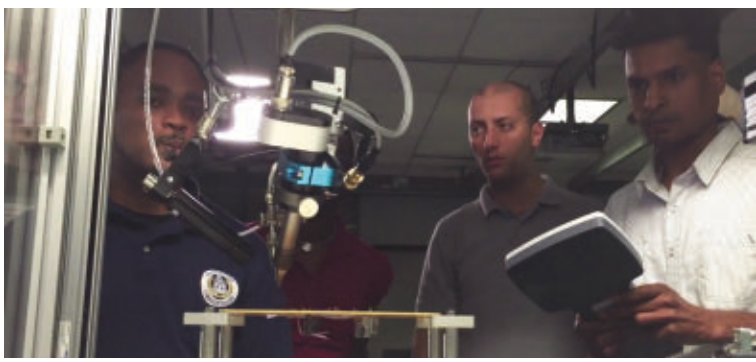
The state of Florida, under the provisions of Rule 6A-10.024, has established that this degree is transferable to any Florida public university that awards a bachelor's degree in electronics engineering technology or general engineering technology (electrical track).

Laser and Photonics College Credit Certificate

This 12 credit-hour certificate program introduces students to fundamental principles of photonics technologies and the operation of various types of lasers.

Graduates of the electronics engineering technology program will have knowledge of:

- Digital fundamentals, including Boolean algebra and latches/flip flops.
- Linear integrated circuits, including construction of operational amplifier circuits.
- Communications systems, including construction of AM and FM circuits and use of software-defined radio.
- Photonics and lasers, including optical systems alignment, building laser drivers, and application of lasers in electronics.
- Solid-state devices, including building circuits with bipolar junction transistors and MOSFETs.
- Microprocessors and microcontrollers, including designing and programing microcontroller circuits.
- Robotics, including Epson 6-axis robot programming and Epson software and simulation.



Professor Tracy Barnes trains students on a PROMATION G series robotic soldering system.

How to recruit from this college

Come to the Dale Mabry Campus in Tampa to present your company and employment opportunities to our students. We will make available, free of charge, a private room in which to interview interested students. Please contact the person below to make arrangements for a recruiting visit.

Contact information

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Program websites

www.hccfl.edu/academics/subjects/engineering/electronics-engineering-technology
www.hccfl.edu/academics/subjects/engineering/laser-and-photonics-ccc

Image courtesy of LASER-TEC.