



# ELECTRONIC SYSTEMS ENGINEERING TECHNOLOGY

ESET graduates function in multidisciplinary teams to design, install, maintain, and repair systems, components, or processes meeting specific needs for engineering applications. They serve as a link between engineers and technicians in the workplace where they play a key role from the conception of electronic systems until their implementation. They are involved in the development, testing, production, and quality assurance of components and/or systems such as circuit boards, wireless phones, medical equipment, and control systems.

The curriculum provides ESET graduates with the education and foundation needed for employment in a variety of industries in the private and public sector, including the computer industry, homeland security, automation and manufacturing, and education. Electronic Systems concentration graduates are employed in a wide spectrum of areas in positions such as engineering consultant, electrical engineering or computer engineering technologist, product engineer, or project manager. Through ECPI University's year-round schedule, you could earn a Bachelor of Science Degree in Electronic Systems Engineering Technology with a concentration in Electronic Systems in as little as 2.5 years.



## Outcomes

Students in the B.S. Electronic Systems Engineering Technology, ESET program learn to design and integrate electronic systems through a strong foundation in analog and digital electronics. They are able to apply the acquired engineering and mathematical principles to implement and improve systems and/or processes for engineering applications.

### Upon Completion of the Bachelor of Science in Electronic Systems Engineering Technology, ESET, Graduates will have:

- ▶ An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly defined engineering problems appropriate to the discipline.
- ▶ An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
- ▶ An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and an ability to function effectively as a member or leader on a technical team.
- ▶ An ability to apply written, oral, and graphical communication in both defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.

### ELECTRONIC SYSTEMS CONCENTRATION:

- ▶ Students enrolled in the Electronic Systems concentration will apply acquired knowledge to design and implement computer, control and embedded systems as well as implementing industrial automation solutions.

## Possible Career Track

- ▶ Electrical/Computer Engineering Technologist
- ▶ Industrial Engineer
- ▶ Product Engineer
- ▶ Project Manager



**Engineering  
Technology  
Accreditation  
Commission**

ABET, The Bachelor of Science in Electronic Systems Engineering Technology and the Bachelor of Science in Mechanical Engineering Technology programs at the Virginia Beach and Newport News, VA campuses and Online are accredited by the Engineering Technology Accreditation Commission of ABET, [www.abet.org](http://www.abet.org). ABET, 415 North Charles Street, Baltimore, MD 21201 +1.410.347.7700