




# MECHATRONICS

Do you enjoy seeing how things are made? Are you fascinated by robotics and ultra-fast, automated manufacturing? Most of all, do you like working with your hands? It all comes together in the exciting world of Mechatronics where you can learn how to develop and troubleshoot robotics, programmable controllers, and integrated systems.

Engineering technologists play a critical role in advanced manufacturing, serving as a nexus between engineers and technicians. From conception to design, development, testing and production, they are essential to the production process.

In just 1.5 years, you can earn an Associate of Science (VA) or Associate of Applied Science (SC) in Electronics Engineering Technology with a concentration in Mechatronics through ECPI University's year-round schedule.



## Outcomes

At ECPI University, your classroom experience is supported by hands-on instruction, using the same kind of technology found in the workplace.

### THIS PROGRAM CAN TEACH YOU HOW TO:

- ▶ Use testing and measuring instruments to acquire data, analyze problems, and design a system or process.
- ▶ Demonstrate an ability to manage engineering technology projects.
- ▶ Identify, analyze and solve technical problems.
- ▶ Analyze and implement systems containing hardware and software components.

### TARGETED COURSEWORK INCLUDES:

- ▶ Applied Mechanics
- ▶ Programmable Controllers
- ▶ Hydraulics and Pneumatics
- ▶ Testing and Measuring Instruments
- ▶ Computer Hardware and Software
- ▶ Materials Science
- ▶ Analog/Digital Electronics and Communications
- ▶ Automation and Control Systems
- ▶ Computer Programming Networks
- ▶ Microcontrollers

## Possible Career Track

### Job titles for these positions include:

- ▶ Engineering Consultant
- ▶ Industrial Engineer
- ▶ Field Service Technician
- ▶ Industrial Technician
- ▶ Electrical/Computer
- ▶ Product Engineer
- ▶ Computer Engineering Technician
- ▶ Electronics Engineering Technician
- ▶ Engineering Technologist
- ▶ Project Manager