

Electrical and Electronics Engineering Technicians help design, develop, test, and manufacture electrical and electronic equipment such as radios, radar, sonar, television, industrial and medical measuring or control devices, navigational equipment, and computers. They may work in product evaluation and testing, using measuring and diagnostic devices to adjust, test, and repair equipment. Electrical and electronic engineering technology is also applied to a wide variety of systems such as communications and process controls.

Electromechanical Engineering Technicians combine fundamental principles of mechanical engineering technology with knowledge of electrical and electronic circuits to design, develop, test, and manufacture electrical and computer controlled mechanical systems.

Electrical equipment and electronics equipment are two distinct types of industrial equipment, although much equipment contains both electrical and electronic components. In general, electrical portions of equipment provide the power for the equipment while electronic components control the device, although many types of equipment still are controlled with electrical devices. Electronic sensors monitor the equipment and the manufacturing process, providing feedback to the programmable logic control (PLC) that controls the equipment. The PLC processes the information provided by the sensors and makes adjustments to optimize output. To adjust the output the PLC sends signals to the electrical, hydraulic, and pneumatic devices that power the machine—changing feed rates, pressures, and other variables in the manufacturing process.

Salary Information:

- Electrical Engineering Technology-Electronics, Associate in Applied Science
\$29,700 Median Salary (Follow-up Study, Monroe Community College Graduates, 2008)
- ***Electrical and Electronic Engineering Technician for the Rochester New York area:***
\$44,500 Median Salary Range (Career One Stop, 2008)
\$53,990 Median Salary Range (U.S. Bureau of Labor Statistics, 2008)

[*Salary varies based on education/advanced degree, work-experience & setting/location.]

Additional Information:

- Accreditation Board for Engineering and Technology: www.abet.org
- Institute of Electrical and Electronics Engineers: www.ieee.org

