



# New York State Green Occupation Spotlight

## Electronics Engineering Technicians

### What do they do?

Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use.

### General Description

#### On average, how many openings are there per year?

There are some 150 openings annually for electronics engineering technicians.

#### What is a typical entry-level wage?

\$27.93 hourly, \$58,090 annually

#### How should I prepare for the job?

To become an electronic engineering technician usually requires earning an associate degree.

#### What types of employers might hire me?

The majority of these jobs are in manufacturing, government, hospitals, and educational facilities. They tend to be located in heavily populated areas with large industrial and commercial establishments.

#### Where can I get training?\*

- Cayuga-Onondaga BOCES
- CUNY New York City College of Technology
- SUNY Empire State College, Saratoga
- SUNY Empire State College, Schenectady

\*See a more complete list of training providers at

[www.greencareersny.com](http://www.greencareersny.com)

### Green Description

#### How many electronics engineering technicians are involved in green business in New York State?

In professional services, more than 650 green electronics engineering technicians work at 190 firms.

#### What do employers say about recruiting them?

17% of businesses in professional services that hire green electronics engineering technicians report having difficulty recruiting qualified workers for these jobs.

#### What kind of green activities would I do?

More than four-fifths of green electronics engineering technicians are involved in energy efficiency such as retrofitting. Just under half of electronic engineers are involved in renewable energy projects such as biomass and geothermal energy.

#### How would I get the skills to do green projects?

More than three quarters of employers say these electronics engineering technicians need new skills to work on green projects. The most common way to acquire these skills is on-the-job training.

For more information about this occupation go to:

- [www.onetonline.org/link/summary/17-3023.01](http://www.onetonline.org/link/summary/17-3023.01)
- [www.bls.gov/oco/cg/cgs010.htm](http://www.bls.gov/oco/cg/cgs010.htm)
- [www.nycareerzone.org/cz/profile.jsp?onetsoc=17-3023.03](http://www.nycareerzone.org/cz/profile.jsp?onetsoc=17-3023.03)

For more information about green jobs, go to:

- Green Careers NY: [www.greencareersny.com](http://www.greencareersny.com)
- Labor Statistics: [www.labor.ny.gov/stats/green](http://www.labor.ny.gov/stats/green)

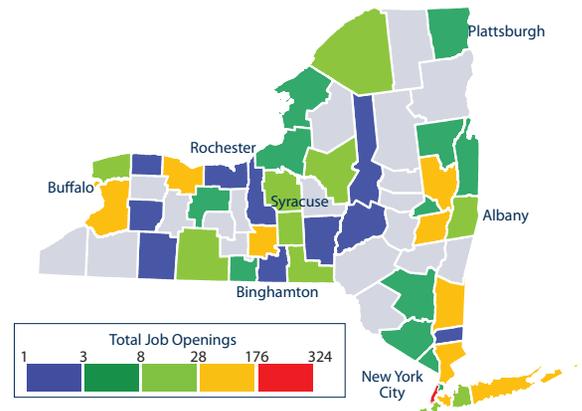
### Case Study

Electronics engineering technicians read blueprints, wiring diagrams, schematic drawings, and engineering instructions for assembling electronics units, applying their knowledge of electronic theory and components. They also test electronics units, using standard test equipment, and analyze the results to evaluate performance.

It is also important that an electronics engineering technician is able to work with manufacturers and field representatives to identify and resolve equipment malfunctions. Providing customer support and education, as well as working with engineers, are soft skills needed for this profession.

When asked whether employers needed to hire new employees with particular green skills or credentials, a CTO (chief training officer) of a component manufacturer on Long Island stated that employees “need to be curious; to stay on top of their industry and to think outside of the box. That’s not a green thing...it’s making curious, excited employees who are willing to figure it out”.

### Job Ads for Electronics Engineering Technicians



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