

# Electromechanical Technician



## What They Do

Electromechanical Technicians operate, test, maintain, and calibrate unmanned, servo-mechanical, or electromechanical equipment. They may operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs, deep ocean exploration, or hazardous waste removal. Electromechanical technicians may assist engineers in testing and designing robotics equipment.

## Job Duties

- Operate, test, or maintain robotic equipment used for green production applications, such as waste-to-energy conversion systems, minimization of material waste, or replacement of human operators in dangerous work environments
- Test performance of electromechanical assemblies using test instruments such as oscilloscopes, electronic voltmeters, or bridges
- Read blueprints, schematics, diagrams, or technical orders to determine methods and sequences of assembly
- Install electrical or electronic parts and hardware in housings or assemblies using soldering equipment and hand tools
- Align, fit, or assemble component parts using hand or power tools, fixtures, templates, or microscopes
- Develop, test, or program new robots

## Job Earnings

*\*\*CareerZone.NY.gov*

\$45,580 per year salary average  
for entry-level workers  
\$80,820 per year salary average  
for experienced workers

## Education/Training

Most electromechanical technician positions require training in vocational schools, related on-the-job experience, or an associate's degree. Employees in this occupation typically need one or two years of training involving both on-the-job experience and informal training with experienced workers. A recognized apprenticeship program may be associated with this occupation.

## Job Outlook

Based on the total number of annual openings and its growth rate in NYS, employment prospects for this occupation are described as neutral. During 2016, there were approximately 32,180 Electro-Mechanical Technicians employed in NYS. It is estimated that in 2026 there will be 35,930 employed in NYS This represents an increase of 380 job(s) each year, and a total of 3,290 job opening(s) each year.

# Electromechanical Technician - Career Pathway

Ways to Start Preparing for Your Future Career TODAY!

## 1 Middle/High School Classes to Take:

- Computers
- Algebra
- Physics
- Trigonometry

## 2 Clubs/Extracurricular Activities:

- Boy Scouts of America Explorer Program ([www.exploring.org](http://www.exploring.org))
- SkillsUSA ([www.SkillsUSA.org](http://www.SkillsUSA.org))
- GCC Tech Wars ([www.techwarsgccny.org](http://www.techwarsgccny.org))
- Camp Hard Hat for Grades 8-10 ([www.BEAGenesee.com](http://www.BEAGenesee.com))

## 3 Local BOCES/Career & Technical Education Programs:

- Genesee Valley BOCES ([www.GVBOCES.org](http://www.GVBOCES.org))
  - Electro-Mechanical Trades (Batavia Campus ONLY)
- Monroe2-Orleans BOCES ([www.Monroe2BOCES.org](http://www.Monroe2BOCES.org))
  - Engineering & Metal Fabrication: Machining
  - Residential & Commercial Electric
- Orleans-Niagara BOCES ([www.ONBOCES.org](http://www.ONBOCES.org))
  - Advanced Manufacturing & Engineering
  - Electricity and Electronics
- Finger Lakes Youth Apprenticeship Program ([www.fingerlakesyouthapprenticeship.org](http://www.fingerlakesyouthapprenticeship.org))

## 4 Volunteer Opportunities:

- Habitat for Humanity

## 5 Local Colleges/Training:

- Colleges:
  - SUNY Alfred ([www.AlfredState.edu](http://www.AlfredState.edu))
  - Erie Community College ([www.ECC.edu](http://www.ECC.edu))
  - Monroe Community College ([www.MonroeCC.edu](http://www.MonroeCC.edu))
- Training Programs:
  - Monroe 2-Orleans BOCES Center for Workforce Development ([www.Monroe2CWD.edu](http://www.Monroe2CWD.edu))
    - Electrical - Industrial
  - Orleans-Niagara BOCES Adult & Workforce Education ([www.ONBOCES.org](http://www.ONBOCES.org))
    - Electrical