



OCCUPATION SUMMARY

Operate, test, maintain, and adjust unmanned or automated equipment, including servomechanical or electromechanical systems. Additionally, tasks may include installing or programming computer hardware or software in microprocessor-based systems, interpreting blueprints or schematics for assembly methods, and modifying, maintaining, or repairing electrical, electronic, or mechanical components to ensure proper functioning. Learn more at <u>onetonline.org</u>.

JOB TITLES

The Electro-Mechanical and Mechatronics Technologists and Technicians occupation refers to the entire industry in which someone works. Some examples of specific job titles for this occupation include:

- Instrumentation Technician
- Robot Programmer
- Calibration Technician
- Electronics Technician
- Automation Technician

Debt-free training and additional support may be available to jobseekers and those currently employed in this career

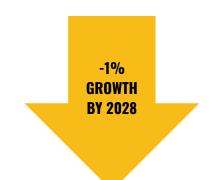
Contact your local *Michigan Works! Agency* to learn more michiganworks.org/michigan-works-network

AVERAGE WAGE IN MICHIGAN

	Entry	Median	Experienced
Hourly	\$19.37	\$26.24	\$38.09
Annually	\$40,290	\$54,579	\$79,227

OCCUPATIONAL GROWTH

Slight decrease projected by 2028 (-1%); 77 annual job openings are predicted.





ELECTRO-MECHANICAL AND MECHATRONICS TECHNOLOGISTS **AND TECHNICIANS**



EARN WHILE YOU LEARN: REGISTERED APPRENTICESHIP

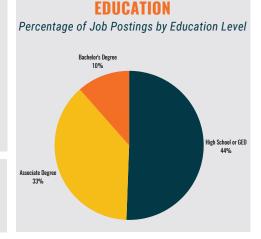
Employers or sponsors may provide apprenticeship opportunities, enabling individuals to acquire hands-on experience, engage in related instruction while receiving compensation. Completing a registered apprenticeship program can lead to career advancement and an average annual income of \$80,000. Learn more.

GROW A CAREER WITH ADVANCED DEGREES AND CERTIFICATES

PROFESSIONAL CERTIFICATIONS

- Automotive Service Excellence (ASE) Certification
- Advance Cardiovascular Life Support (ACLS) Certification
- Certified Loss Control Specialist
- Journeyman Electrician

- · Six Sigma Black Belt
- Electrostatic Discharge Control (ESD) Certification
- Certification Board for Sterile Processing and Distribution (CBSPD) Certification
- · Product Certification



ADVANCED DEGREES AVAILABLE

(Associate, Bachelor's and Master's Degrees)

· Business Administration

A POTENTIAL PATH TO SUCCESS

Explore strategies for overcoming significant factors that can impact employment by clicking here. The following illustration outlines a potential career trajectory based on labor market insights within this occupation.

MID-LEVEL COMPETENCIES (3-6 YEARS EXPERIENCE)

Continue gaining skills to stay relevant in an ever-changing ecosystem.

ENTRY LEVEL COMPETENCIES (0-2 YEARS EXPERIENCE)

Current employees who obtain training may be offered a new position, additional responsibility, and/or additional benefits.

Skills/knowledge in:

- Instrumentation
- Calibration
- Electronics
- Automation

Oualifications:

 Valid Driver's License

- Programmable

- Microsoft Suite

Oualifications:

 Automotive Service

Skills/knowledge in:

- **Logic Controllers**
- Sensors
- **Electrical Wiring**
- **Control Systems**

Excellence (ASE) Certification

Skills/knowledge in:

- Machinery
- Robotics
- Test Equipment
- Welding
- · Hand Tools
- Debugging
- Visual Basic (Programming Language)

Qualifications:

Secret Clearance

Skills/knowledge in:

- Tooling
- Hydraulics
- Soldering
- Technical Support
- **Fanuc Controllers**
- Preventive
 - Maintenance
- Pneumatics
- Production Equipment
- LabVIEW

(7+ YEARS EXPERIENCE)

Employers value staff that stay relevant and gain new skills.

PROFESSIONAL LEVEL COMPETENCIES

Skills/knowledge in:

- **Human Machine** Interfaces
- **Project** Management
- Metrology
- Electronic Components
- Electrical Systems
- Electronic Engineering
- MATLAB
- Simulink
- AutoCAD

Qualifications:

Six Sigma Black

Skills/knowledge in:

- Mechanical **Engineering**
- Distributed **Control Systems**
- Electronic Control
- Engineering **Drawings**
- JIRA
- CANalyzer

Qualifications:

 Advanced Cardiovascular Life Support (ACLS) Certification

This workforce product was funded by a grant awarded by the U.S. Department of Labor (DOL)'s Employment and Training Administration (ETA). The product was created by the recipient and does not necessarily reflect the official position of DOL/ETA. DOL/ETA makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This product is copyrighted by the institution that created it.

This information was pulled and combined to create these profiles by WIN staff. Data pulled from ONet, Lightcast, and Indeed.

