CAREER PROFILE: NEXT LEVEL TECH

Mechatronics Technician

A mechatronics technician installs, operates, maintains, and repairs the automated machines and robotic systems used in factories, warehouses, hospitals, and other workplaces. They work with mechanical parts, electrical systems, sensors, computers, and robotics to keep equipment running safely and efficiently.

School to Career Pathway

- Take courses in math, science, computer technology, and engineering.
- Gain hands-on experience through career and technical education (CTE), apprenticeships, internships, or robotics competitions.
- Earn an associate degree or technical certificate in mechatronics, robotics, industrial maintenance, electronics, or automation.

Durable Skills

As a mechatronics technician, you need:

- Performance monitoring to evaluate your work and others' performance, identify improvements, and take corrective action.
- Critical thinking to assess strengths and weaknesses of different solutions and approaches.
- Reading comprehension to understand technical instructions and documents.
- Troubleshooting skills to identify equipment errors, determine causes, and find effective solutions.

Paycheck Peek

$35.53 hourly, $73,900 annual
*Note that annual wages vary by location (state, city, or work setting)



Core Duties

Install Automated Equipment
Set up robots, conveyor systems, sensors, and other automated machines, checking connections and controls to ensure safe operation.

Inspect and Maintain Systems
Perform routine inspections, replace worn parts, and maintain mechanical and electrical components to prevent breakdowns.

Troubleshoot Equipment Problems
Use diagnostic tools and software to identify mechanical, electrical, or programming faults and make repairs.

Program and Calibrate Machines
Adjust robot settings, sensors, and control systems, then test equipment for accurate and efficient operation.

Follow Safety Procedures
Inspect equipment for hazards, follow workplace safety rules, and document maintenance and repairs to protect workers and machines.



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Could This Be Your Thing?

- Are you fascinated by robots or enjoy participating in robotics clubs, competitions, or hands-on STEM activities?
- Do you like spending your free time building, fixing, or figuring out why machines and gadgets stop working?
- Are you curious about how motors, sensors, and electronics work together to make machines move?
- Do you enjoy solving technical challenges, experimenting with new ideas, and working with a team?
- Would you like a career where you work with both technology and your hands?

Explore Similar Career Pathways

- Aerospace Engineering and Operations Technologists and Technicians
- Robotics Technician
- Calibration Technician

Dig Deeper Here

Find out more about all careers at: US Bureau of Labor Statistics Student's Desk

Find out more about AI Careers at:

- A-Z of Careers in AI
- Careers in AI Video Series for Middle School Students
- AI at NASA: Unlocking the Future of Exploration

Find out more about the careers above:

- O*NET Online: Aerospace Engineering and Operations Technologists and Technicians
- O*NET Online: Calibration Technician
- O*NET Online: Robotics Technician