

ADVANCED MANUFACTURING

Precision Manufacturing

Industry Future

AI is likely to significantly impact diagnostics, programming, and machine operations. This evolution necessitates ongoing education and training to adapt to changing technologies, as skill requirements are continuously evolving.

In-Demand Positions & Skills

- Electrical and mechanical technicians
- Industrial automation technicians
- Robotics and PLC programming expertise
- Broad technical knowledge across areas like hydraulics, pneumatics, welding

Significant Technician Shortages

There's a notable shortage of technicians skilled in 6-axis robotic programming in the U.S., with more expertise found among European and Asian workers. The ability to program and troubleshoot robotic systems is a critical gap that must be addressed to meet industry demands.

Professional Development

There is an increasing recognition among employers that prioritizing candidates with a strong work ethic and an appropriate mindset can be more advantageous than exclusively focusing on technical skills. This is particularly relevant, as technical abilities can be developed through effective training and support.

Where should I go next?

- Browse training programs at your local community college at Northstatecareers.org
- Find a Job Center near you to talk to a career coach at Careeronestop.org
- Talk to someone who works in the field or spend a day job shadowing

Average Salary
for the Sector

\$61,000

Annually

