

ADVANCED MANUFACTURING



INDUSTRY OVERVIEW



Advanced manufacturing is an engine of the U.S.'s economic power and a cornerstone of its national security.



Advances in manufacturing allow the economy to continuously improve as new innovations and technologies boost productivity, support new product development, and establish entirely new industries.



Manufacturing careers are all about working with your hands and not at a desk.

ESSENTIAL SKILLS

Manufacturing is being transformed through artificial intelligence, advanced robotics, automation, analytics, and the Internet of Things. As technology continues to transform the manufacturing industry, workers will have to learn new techniques, concepts, and skills and embrace lifelong learning.

Responsibilities and expectations of roles within the advanced manufacturing field include:

- Communication
- Customer Service
- Detail Oriented
- Microsoft Office

- Organizational Skills
- Physical Abilities
- Planning
- Problem Solving

- Quality Assurance
- Repair
- Scheduling
- Teamwork



COMMON CAREER PATHWAY

High school or less	Diploma	Diploma
Maintenance & Repair Workers Team Assemblers	6-12 months Machinists Welders	1-2 years Industrial Machinery Mechanics
\$30,000-\$39,500	\$38,900-\$40,900	\$54,000

HOW DO I START MY CAREER?

DO SOME RESEARCH

- Assess your interests, aptitudes, skills, personality and preferences.
- Getting to know yourself helps you match your interest and skills to different careers.
- Use [ONETonline.org](https://www.onetonline.org) to learn about various careers.

EXPAND YOUR NETWORK

- Join a professional organization and take advantage of social media like LinkedIn.
- Intern at a local manufacturer.
- Use your network to help you learn about career pathways, educational opportunities, and job responsibilities and expectations.

GET TRAINING

- Many manufacturing jobs don't require a bachelor's degree.
- Check out [WorksourceGAportal.com](https://www.worksourcega.com) for a list of eligible training providers to get started in your manufacturing career.

WHERE CAN I WORK?

REPETITIVE ASSEMBLY LINE

In a repetitive manufacturing plant, assembly lines produce a single item multiple times. The machinery is calibrated for only one product and the line operates faster or slower depending on the consumer demand for the product. A second assembly line may open seasonally as demand requires.

DISCRETE ASSEMBLY LINE

In a discrete manufacturing environment, the production line may produce a variety of items. The machinery facilitates convenient changeovers. There is more downtime in this environment, as tear-down and set-up must take place between different batches.

JOB SHOP

A job shop uses production areas rather than assembly lines. These areas may produce one item or many. A job shop has more labor operations than automated machinery, and typically produces fewer items than either a repetitive or discrete assembly line.

More information available at:

[ATLworks.org/job-seekers](https://atlworks.org/job-seekers)

Find out more about WorkSourceGA's training services and see which top manufacturing employers in Atlanta are hiring entry-level talent.