

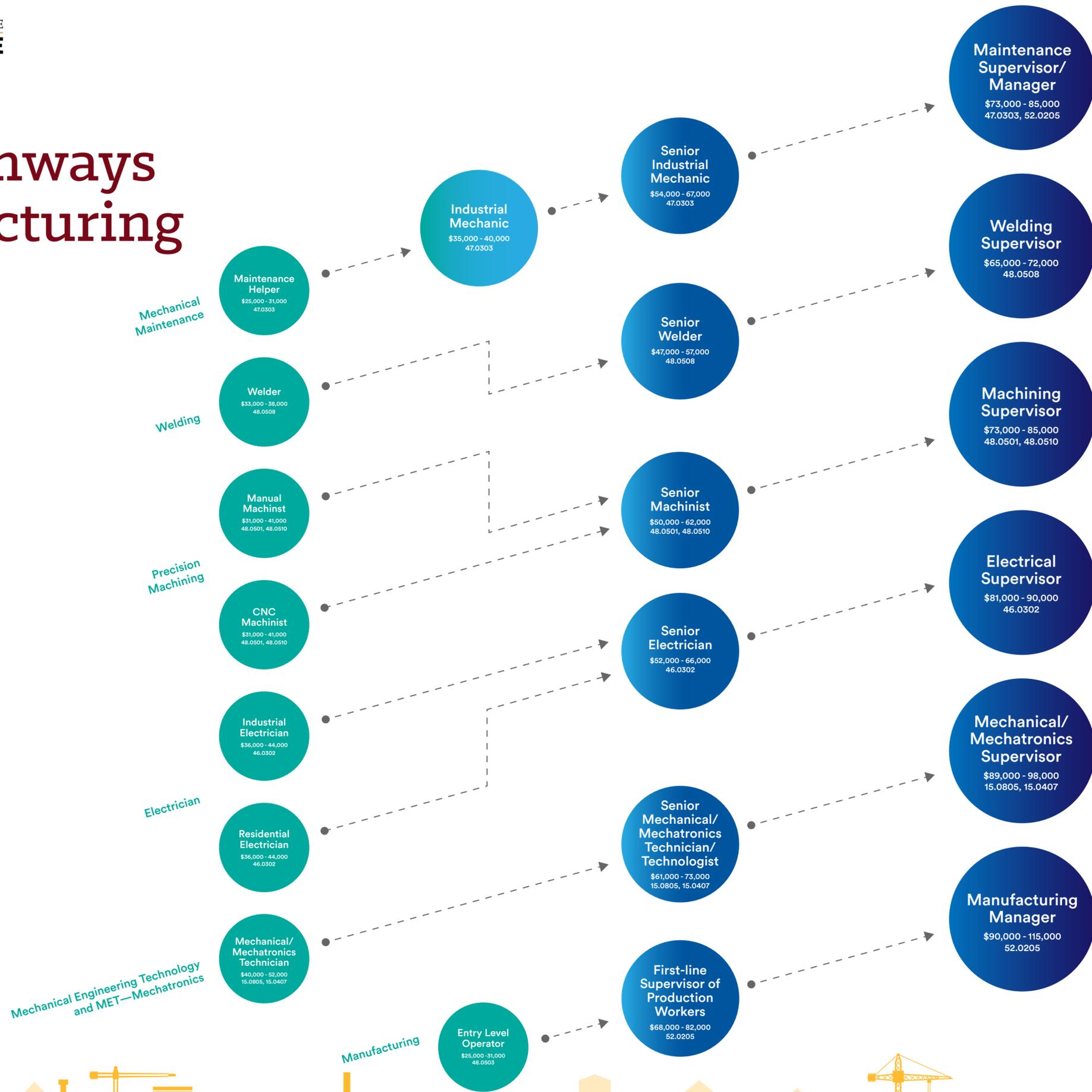
Career Pathways in Manufacturing

Are you interested in welding, building electronics and machines or operating presses and computer-controlled machines? These essential jobs have some of the largest impact on the economy, including jobs in mechatronics, a fast-growing field that spans robotics, artificial intelligence systems, and complex computerized electrical machines.

Welding and manufacturing jobs are in high demand across Virginia, and employers are looking for qualified, credentialed applicants to fill open vacancies. The manufacturing industry has lots of room for advancement, with entry-level positions requiring a short-term training program and certification, with more advanced positions requiring multiple certifications, an applied associate degree or advanced degrees.

Local employers who hire CCWA graduates in this field include: Westrock, Philip-Morris, Victory Packaging, Ukrop's Home Style Foods, DuPont, GE Performance Foods, International Paper, Eaton, Nestle, Niagara Bottling, Mondelez, BrightView, and Honeywell, among others. CCWA Career Services can help connect you to local employers.

To learn about your training and educational options and to find out what supportive services you may qualify for, visit <https://ccwatraining.org>.



Career Pathways in Manufacturing Job Details



Job Title	3-Year Job Forecast Growth (Virginia)	Supportive Resources	Training, Educational Programs & Accreditation Information
Maintenance Helper	4% locally, 16% nationally	G3, FastForward, Virginia Ready Job placement through CCWA	Manufacturing Technician 1 (MT1) training and credential
Welder	5%	G3	Welding CSC
Manual/CNC Machinist	4%	G3	Basic Precision Machining CSC or Computer Numerical Control CSC
Electrician	8%	G3	Industrial Electricity CSC or Residential Electricity CSC
Mechanical/Mechatronics Technician	4%	G3	Mechanical Engineering Technology AAS or MET, Mechatronics Specialization AAS
Industrial Mechanic	4% locally, 16% nationally	G3	Mechanical Maintenance CSC
Senior Industrial Mechanic	4% locally, 16% nationally	G3	Mechanical Maintenance CSC
Senior Welder	5%	G3	Welding CSC
Senior Machinist	4%	G3	Precision Machining Technology Certificate
Senior Electrician	8%	G3	Electrical Engineering Technology AAS
Senior Mechanical/Mechatronics Technician/Technologist	4%	G3	Mechanical Engineering Technology AAS or MET, Mechatronics Specialization AAS
First-line Supervisor of Production Workers	0%	G3	Advanced Manufacturing Management CSC
Maintenance Manager/Supervisor	4% locally, 16% nationally	G3	Technical Studies AAS
Welding Supervisor	5%	G3	Technical Studies AAS
Machining Supervisor	4%	G3	Technical Studies AAS
Electrical Supervisor	8%	G3	Technical Studies AAS
Mechanical/Mechatronics Supervisor	4%	G3	Mechanical Engineering Technology AAS or MET, Mechatronics Specialization AAS
Manufacturing Manager	0%	G3	Advanced Manufacturing Technology AAS

Descriptions

MAINTENANCE HELPER

\$25,000-31,000

Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.

WELDER

\$33,000-38,000

Use hand-welding, flame-cutting, hand-soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

MANUAL/CNC MACHINIST

\$31,000-41,000

Fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures.

ELECTRICIAN

\$36,000-44,000

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

MECHANICAL/MECHATRONICS TECHNICIAN

\$40,000-52,000

Mechanical Technicians modify, develop, test, and adjust unmanned, automated, servomechanical and electro-mechanical equipment.

INDUSTRIAL MECHANIC

\$35,000-40,000

Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.

SENIOR INDUSTRIAL MECHANIC

\$54,000 – 67,000

A Senior Industrial Mechanic repairs, installs, adjusts and/or maintains industrial production and processing machinery or refinery and pipeline distribution systems.

SENIOR WELDER

\$47,000-57,000

Use hand-welding, flame-cutting, hand-soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

SENIOR MACHINIST

\$50,000-62,000

Fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures.

SENIOR ELECTRICIAN

\$52,000-66,000

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

SENIOR MECHANICAL/MECHATRONICS TECHNICIAN/TECHNOLOGIST

\$61,000-73,000

Senior Mechanical Technicians modify, develop, test, and adjust unmanned, automated, servomechanical and electro-mechanical equipment.

FIRST-LINE SUPERVISOR OF PRODUCTION WORKERS

\$68,000-82,000

Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators.

MAINTENANCE MANAGER/SUPERVISOR

\$73,000-85,000

Responsible for managing all aspects of the maintenance department. This includes managing the upkeep of all manufacturing assets, managing maintenance budget and resources and assisting in the design and installation of new systems.

WELDING SUPERVISOR

\$65,000-72,000

Oversee workers operating equipment, measuring dimensions to verify compliance and cutting industrial material for fabrication or processing.

MACHINING SUPERVISOR

\$73,000-85,000

Supervise a team of programmers and machinists to manufacture prototype components and regular production parts. Works closely with product development and production control teams.

ELECTRICAL SUPERVISOR

\$81,000-90,000

Serve as job site supervisor/team leader for industrial projects, commercial electrical construction, and service work for equipment and facilities. Enforce and adhere to the electrical code.

MECHANICAL/MECHATRONICS SUPERVISOR

\$89,000-98,000

Supervises team that modifies, develops, tests and adjusts unmanned, automated, servomechanical and electro-mechanical equipment.

MANUFACTURING MANAGER

\$90,000-115,000

Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators.

