



Advanced Manufacturing Career Pathway

MadREP Region 2021-2022

EXPLORE: Click on the links to learn more about the job titles under each industry subsector that seem most interesting to you!
 Save any jobs you are interested in to your XELLO account so that you can create an Academic and Career Plan (ACP).

Educational Level May also require work experience	Production	Engineering & Design	Industry 4.0	Electro-Mechanical	Supply Chain
High School Diploma or Certification	<ul style="list-style-type: none"> • Assembler • Die Setter★ • Mold Process Technician • Production Worker★ Range \$25,710-\$41,790		<ul style="list-style-type: none"> • Data Entry Clerk○ • Electronics Assembler○ Range \$27,740-\$42,830	<ul style="list-style-type: none"> • Bindery Operator○ • Engine/Machine Assembler○ • Machine Feeder/Offbearer • Maintenance Technician○★ Range \$25,630-\$52,920	<ul style="list-style-type: none"> • Material Handler★ • Packager • Shipping & Receiving Clerk○ • Warehouse Clerk○★ Range \$23,590-\$50,110
Certification or Technical Diploma	<ul style="list-style-type: none"> • Food Processing Operator • Paint Technician★ • Production Technician★ • Sheet Metal Worker○★ • Welder○★ Range \$25,030-\$62,180	<ul style="list-style-type: none"> • Quality Assurance Technician★ Range \$41,830-\$78,920	<ul style="list-style-type: none"> • Quality Controller○★ • Robotic Welder Range \$33,450-\$78,920	<ul style="list-style-type: none"> • CNC Machine Operator○★ • Industrial Maintenance Mechanic○★ • Machine Setter/Tender • Printing Press Operator○ Range \$27,670-\$60,470	<ul style="list-style-type: none"> • Inventory Control Range \$36,510-\$57,850
Registered Apprenticeship	<ul style="list-style-type: none"> • CNC Machinist○★ • Industrial Pipefitter/Steamfitter○★ • Maintenance Tech○★ • Mold/Pattern Maker • Tool and Die Maker○ Range \$28,600-\$77,340		<ul style="list-style-type: none"> • CNC Programmer★ • Electrical Discharge Machining Technician Range \$39,180-\$72,330	<ul style="list-style-type: none"> • CNC Technician○ • Industrial Electrician○★ • Maintenance Mechanic○ • Mechatronics Technician • Millwright○★ Range \$37,340-\$71,700	
Associate Degree (And/or equivalent work experience)	<ul style="list-style-type: none"> • Food Science Technician • Manufacturing Machine Operator○ • Production Supervisor Range \$31,750-\$72,330	<ul style="list-style-type: none"> • Electrical Drafter○ • Industrial Engineering Technician○ • Mechanical Drafter (CAD)○ Range \$39,750-\$63,990	<ul style="list-style-type: none"> • Electronics Engineering Tech○ • Computer Network Specialist○ • Manufacturing Engineer Tech • Business Analyst○★ • Chemical Engineering Tech○ Range \$33,930-\$104,280	<ul style="list-style-type: none"> • Electrical Engineering Tech○ • Maintenance Supervisor • Mechanical Engineering Technician○ • Robotics Technician Range \$40,000-\$84,890	<ul style="list-style-type: none"> • Buyer○ • Production Planner • Logistics Analyst○ Range \$36,510-\$75,260
Bachelor Degree and beyond (And/or equivalent work experience)	<ul style="list-style-type: none"> • Environmental Specialist○★ • Manufacturing Manager○ • Operations Manager★ Range \$39,150-\$161,870	<ul style="list-style-type: none"> • Industrial Designer○ • Environmental Engineer○ • Food Scientist○ • Materials/Process Engineer○ • Quality Analyst○★ Range \$41,830-\$115,380	<ul style="list-style-type: none"> • Business Intelligence Analyst★ • Chemical Engineer○ • Data Warehouse Analyst★ Range \$54,440-\$110,620	<ul style="list-style-type: none"> • Electrical Engineer○ • Industrial Engineer○★ • Mechanical Engineer○ Range \$55,460-\$102,780	<ul style="list-style-type: none"> • Logistics Manager○ • Sales Representative○ • Supply Chain Analyst Range \$45,740-\$118,540
Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options

★ BRIGHT OUTLOOK = these jobs are expected to grow in the future – which means more opportunities for you!
 ○ XELLO = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



Advanced Manufacturing Career Pathway In High School

A career pathway in high school must include:

- A sequence of courses (including at least 2 CTE courses)
- Two of the following components: Career and Technical Student Organization, Work-based Learning, College Credit Opportunity, and Industry Recognized Credential



Career and Technical Education Courses

Must include a sequence of at least TWO Career and Technical Education courses. Should align with [Education Building Blocks](#) for pathway:

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Career Exploration Programs

Regional:

- [BTC Tech Exploration Days](#)
- [Madison College Career Discovery Camps](#)
- [Moraine Park Manufacturing Bootcamps](#)
- [UW-Madison Engineering Summer Program](#)
- [UW Platteville Youth Programs](#)
- [UW Madison College of Engineering Outreach Programs](#)
- [Badger Pre-College Online](#)
- [Fab Labs](#)
- [Future Quest](#)
- [GuidED videos](#)
- [Gold Collar Careers - Manufacturing Works](#)
- [Inspire Madison Region](#) (Profiles & Career Development Activities)
- [Maydm STEM Programs](#)
- [Wisconsin Manufacturing Month](#) (October)

Local:

Relevant Academic Courses

Should align with [Education Building Blocks](#) for this pathway:

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Career and Technical Student Organization

- [SkillsUSA](#)

Work-Based Learning Program Options

- [Employability Skills](#) (90 hrs)
- [Youth Apprenticeship-Manufacturing](#) /(450 hrs/year; 1-2 years)
- Local Internship/Local Work-based Learning Programs that meet [state quality requirements](#)
- [Blackhawk Scholars program](#) (must be 18 years old)

College Credit Options

You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#).

Industry Recognized Credential Options

Learn the skills that employers want to see!

Italics = must be 18 years old to obtain

* This certification is eligible for reimbursement to the district through the [technical incentive grant](#)

Production

Engineering & Design

Industry 4.0

Electro-Mechanical

Supply Chain

[OSHA 10-General Industry Version](#)

[American Welding Society \(AWS\) Level 1 Entry Welder](#) *
[Manufacturing Skills Standards Council-Certified Production Technician \(full program or any of the modules\)](#) *

- [National Institute for Metal Working Skills \(NIMS\)](#)
- [Industrial Technology Maintenance Level 1](#)
 - [Machining Level](#) *
 - [Metalforming Level 1](#) *

[The Association for Packaging and Processing Technologies Mechatronics Certification](#)
[Certified Solidworks Associate](#)
[Snap On-Precision Measurement Instruments, Multimeter, Mechanical and Electronic Torque Certification](#) *

[Smart Automation Certification Alliance \(SACA\)-Associate Level](#)
[NC3 Industry 4.0 and Mechatronics](#)

[NC3 Industry 4.0 and Mechatronics](#)

[Lean Six Sigma \(ASQ\) MSSC-Certified Logistics Technician \(CLT\)](#)