



Advanced Manufacturing Career Pathway

New North 2020-2021



EXPLORE: Click on the links to find the job titles that seem most interesting to you to learn more! Save any jobs you are interested in from this career pathway in your XELLO account so that you can create an Academic and Career Plan (ACP) later on.

Educational Level May also require work experience	Production	Engineering and Design	Industry 4.0	Electro-Mechanical	Supply Chain
High School Diploma,	Engine/Machine Assembler <input type="radio"/> , Data Entry Clerk <input type="radio"/> , General Laborer , Packager Material Handler Range \$23,750-\$50,130				
Certificates and Technical Diploma	Operator Paint Technician * Food Processing Operator Welder * Sheet Metal Worker <input type="radio"/> * Production Technician * Range \$27,300-\$66,380	CAD Drafter Quality Assurance Technician * Mold Technician * Range \$29,730-\$76,570	Robotic Welder * Quality Controller <input type="radio"/> * Robotics Technician * Range \$32,010-79,800	Electronics Technician <input type="radio"/> * Electrical Engineering Tech <input type="radio"/> * Industrial Engineering Tech <input type="radio"/> * Industrial Maintenance Mechanic <input type="radio"/> * Range \$36,480-88,050	Shipping & Receiving Clerk Robotics and Material Handler Technician Inventory Control * Range \$24,340-\$56,800
Registered Apprenticeship	Industrial Pipefitter * Tool and Die Maker * Pattern Maker Machinist <input type="radio"/> * Range \$32,930-\$83,680	Mold Maker Range \$24,400-52,570	Electrical Discharge Machining Technician Range \$39,190-\$96,690	Millwright <input type="radio"/> * CNC Technician * Industrial Electrician * Industrial Machinery Technician <input type="radio"/> Maintenance Mechanic <input type="radio"/> * Mechatronics Technician * Range \$33,940-\$83,950	
Associate Degree	CNC Programmer <input type="radio"/> * CNC Machine Operator <input type="radio"/> * Range \$26,400-57,800	Mechanical Designer (CAD) <input type="radio"/> * Range \$36,300-92,000	Electronics Engineering Tech <input type="radio"/> Computer Network Specialist <input type="radio"/> Manufacturing Engineer Tech Business Analyst * Chemical Engineering Tech <input type="radio"/> Range \$39,400-105,780	Mechanical Engineering Technician Electrical Engineer Technician Electro-mechanical Technician Range \$36,700-93,000	Buyer Production Planner Logistics Analyst Range \$37,500-101,300
Bachelor Degree and beyond	Manufacturing Manager <input type="radio"/> * Operations Manager Range \$55,000-192,000	Electrical Engineer <input type="radio"/> Mechanical Engineer <input type="radio"/> Environmental Engineer <input type="radio"/> Quality Controller <input type="radio"/> * Range \$51,240-129,420	Process Engineer/Systems Engineer * Business Intelligence Analyst Chemical Engineer Computer Scientist <input type="radio"/> * Range \$61,660-165,487	Industrial Engineer <input type="radio"/> * Manufacturing Engineer * Electromechanical Engineering Technologist <input type="radio"/> Range \$60,150-145,000	Supply Chain Analyst Procurement Manager * Data Warehouse Analyst * Range \$59,700-167,186
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** - This job is projected to grow in the future, which means there will be a high demand for this job.



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, Industry Recognized Credential, College Credit Opportunity*

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 the pathway: <ul style="list-style-type: none"> • • • 	CAREER EXPLORATION PROGRAMS
Additional Employer Recommended Courses	Should align with Education Building Blocks for this pathway: <ul style="list-style-type: none"> • • 	Regional: <ul style="list-style-type: none"> • Virtual Career Events • First Robotics • Wisconsin SkillsUSA • Hour of Code • Wisconsin Manufacturing Month • FVTC Summer Camps • LTC Summer Camps • Moraine Park Summer Manufacturing Bootcamp • UWGB Summer Camps • NWTC Career Events
Career and Technical Student Organization	SkillsUSA	
Work-Based Learning Program Options	<ul style="list-style-type: none"> • 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 	Local: <ul style="list-style-type: none"> • •

	Production	Engineering and Design	Industry 4.0	Electro-Mechanical	Supply Chain
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Industry Recognized Credential Options Learn the skills that employers want to see!	OSHA 10-General Industry Version				
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<i>Italics = must be 18 years old to obtain</i> *This certification is eligible for reimbursement through the technical incentive grant	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)- <ul style="list-style-type: none"> • Industrial Technology Maintenance Level 1 	The Association for Packaging and Processing Technologies Mechatronics Certification Certified Solidworks Associate Snap On-Precision Measurement Instruments, Multimeter, Mechanical and Electronic Torque	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)
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