



Advanced Manufacturing Career Pathway

North-Central Wisconsin Region

2021-2022



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, Certification	Engine/Machine Assembler ○ Data Entry Clerk ○ General Laborer * Machine Operator Material Handler * Shipping & Receiving Clerk * ○ Packager Range \$19,500 - \$57,000				
Certification or Technical Diploma	Paint Technician * Food Processing Operator Welder * ○ Machine Setter & Operator ○ Machine Assembler Sheet Metal Worker * ○ Production Technician Range \$21,750 - \$90,000	CAD Drafter ○ Quality Technician * ○ Mold Technician	Robotic Welder * Quality Technician ○ * Robotics Technician * Controls Technician	Electrical and Instrumentation Tech ○ Industrial Engineering Tech ○ Industrial Maintenance Mechanic * ○ Electronics Technician ○	Robotics and Material Handler Technician * Inventory Control Shipping and Receiving ○ Range \$21,400 - \$51,500
Registered Apprenticeship	CNC Technician Industrial Pipefitter * ○ Tool and Die Maker ○ Pattern Maker Welder-Fabricator Industrial Engineering Technician ○ Sheet Metal Worker - Industrial * ○ Range \$28,000-\$100,000	Mold Maker Range \$25,000-\$53,000	Mechatronics Technician Electrical Discharge Machining Technician * Machinist ○ *	Millwright ○ * Industrial Electrician * Electrical/Instrumentation Technician ○ Instrument Mechanic * Lubrication Technician * Maintenance Mechanic ○ *	
Associate Degree	CNC Programmer * CNC Machinist * ○ Range \$36,000-\$89,000	Industrial Designer ○ Industrial Hygienist ○ Range \$35,000-\$144,000	Electronics Engineering Tech ○ Automation Engineer Tech Network or Cybersecurity Specialist * ○ Business Systems Analyst * ○ Chemical Engineering Tech ○ Software Developer * Range \$31,000 - \$165,000	Mechanical Engineering Technician ○ Electrical Engineer Technician ○ Electro-mechanical Technician Maintenance Planner Range \$30,000 - \$97,000	Production Planner Logistics Analyst ○ Range \$30,000-\$120,000
Bachelor Degree and beyond	Operations Manager * Front Line Supervisor * Safety Engineer Environmental Engineer ○ Quality Manager * Warehouse Manager Range \$30,000-\$208,000	Electrical Engineer * ○ Mechanical Engineer ○ Environmental Engineer ○ Quality Engineer ○ * Paper Science Engineer Chemical Engineer ○ Range \$30,000-\$161,000	Process Engineer Business Intelligence Analyst * Computer Scientist ○ * Systems/Reliability Engineer * Systems App Developer * Research and Development Computer Systems Analyst * Range \$40,000 - \$190,000	Industrial Engineer ○ * Manufacturing Engineer * Electromechanical Engineering Technologist Maintenance Manager/ Superintendent ○ Range \$35,000 - \$176,000	Supply Chain Manager Procurement Manager Data Warehouse Analyst * Buyer Forest Products Buyer Distribution Center Manager Range \$38,000-\$193,000
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, 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
Relevant Academic Courses	Should align with Education Building Blocks for this pathway: <ul style="list-style-type: none"> • • 				Statewide: <ul style="list-style-type: none"> • Inspire contacts in Xello
Career and Technical Student Organization	SkillsUSA				Regional: <ul style="list-style-type: none"> • Heavy Metal Tour (Nicolet College) • CWIMMA Welding and Machine Tool Contest
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 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
Industry Recognized Credential Options Learn the skills that employers want to see! <i>Italics = must be 18 years old to obtain</i> <i>*This certification is eligible for reimbursement through the technical incentive grant</i>	OSHA 10-General Industry Version				
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .				
	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 • 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)