



# Advanced Manufacturing Career Pathway

## North-Central Wisconsin Region

### Laona 2022-2023



**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	<a href="#">Engine/Machine Assembler</a> ◦ <a href="#">Data Entry Clerk</a> ◦ <a href="#">General Laborer</a> * <a href="#">Machine Operator</a> <a href="#">Material Handler</a> * <a href="#">Shipping &amp; Receiving Clerk</a> * ◦ <a href="#">Packager</a> Range \$19,500 - \$57,000				
Certification or Technical Diploma	<a href="#">Paint Technician</a> * <a href="#">Food Processing Operator Welder</a> * ◦ <a href="#">Machine Setter &amp; Operator</a> ◦ <a href="#">Machine Assembler</a> <a href="#">Sheet Metal Worker</a> * ◦ <a href="#">Production Technician</a> Range \$21,750 - \$90,000	<a href="#">CAD Drafter</a> ◦ <a href="#">Quality Technician</a> * ◦ <a href="#">Mold Technician</a> Range \$24,000-\$92,000	<a href="#">Robotic Welder</a> * <a href="#">Quality Technician</a> ◦ * <a href="#">Robotics Technician</a> * <a href="#">Controls Technician</a> Range \$30,000 - \$97,000	<a href="#">Electrical and Instrumentation Tech</a> ◦ <a href="#">Industrial Engineering Tech</a> ◦ <a href="#">Industrial Maintenance Mechanic</a> * ◦ <a href="#">Electronics Technician</a> ◦ Range \$34,000 - \$97,000	<a href="#">Robotics and Material Handler Technician</a> * <a href="#">Inventory Control Shipping and Receiving</a> ◦ Range \$21,400 - \$51,500
Registered Apprenticeship	<a href="#">CNC Technician</a> <a href="#">Industrial Pipefitter</a> * ◦ <a href="#">Tool and Die Maker</a> ◦ <a href="#">Pattern Maker</a> <a href="#">Welder-Fabricator</a> ◦ <a href="#">Industrial Engineering Technician</a> ◦ <a href="#">Sheet Metal Worker - Industrial</a> * ◦ Range \$28,000-\$100,000	<a href="#">Mold Maker</a> Range \$25,000-\$53,000	<a href="#">Mechatronics Technician</a> <a href="#">Electrical Discharge Machining Technician</a> * <a href="#">Machinist</a> * ◦ Range \$35,000 - \$99,000	<a href="#">Millwright</a> * ◦ <a href="#">Industrial Electrician</a> * <a href="#">Electrical/Instrumentation Technician</a> ◦ <a href="#">Instrument Mechanic</a> * <a href="#">Lubrication Technician</a> * <a href="#">Maintenance Mechanic</a> * ◦ Range \$24,600 - \$97,000	
Associate Degree	<a href="#">CNC Programmer</a> * <a href="#">CNC Machinist</a> * ◦ Range \$36,000-\$89,000	<a href="#">Industrial Designer</a> ◦ <a href="#">Industrial Hygienist</a> ◦ Range \$35,000-\$144,000	<a href="#">Electronics Engineering Tech</a> ◦ <a href="#">Automation Engineer Tech Network or Cybersecurity Specialist</a> * ◦ <a href="#">Business Systems Analyst</a> * ◦ <a href="#">Chemical Engineering Tech</a> ◦ <a href="#">Software Developer</a> * Range \$31,000 - \$165,000	<a href="#">Mechanical Engineering Technician</a> ◦ <a href="#">Electrical Engineer Technician</a> ◦ <a href="#">Electro-mechanical Technician Maintenance Planner</a> Range \$30,000 - \$97,000	<a href="#">Production Planner</a> <a href="#">Logistics Analyst</a> ◦ Range \$30,000-\$120,000
Bachelor Degree and beyond	<a href="#">Operations Manager</a> * <a href="#">Front Line Supervisor</a> * <a href="#">Safety Engineer</a> <a href="#">Environmental Engineer</a> ◦ <a href="#">Quality Manager</a> * <a href="#">Warehouse Manager</a> Range \$30,000-\$208,000	<a href="#">Electrical Engineer</a> * ◦ <a href="#">Mechanical Engineer</a> ◦ <a href="#">Environmental Engineer</a> ◦ <a href="#">Quality Engineer</a> * ◦ <a href="#">Paper Science Engineer</a> <a href="#">Chemical Engineer</a> ◦ Range \$30,000-\$161,000	<a href="#">Process Engineer</a> <a href="#">Business Intelligence Analyst</a> * <a href="#">Computer Scientist</a> * ◦ <a href="#">Systems/Reliability Engineer</a> * <a href="#">Systems App Developer</a> * <a href="#">Research and Development Computer Systems Analyst</a> * Range \$40,000 - \$190,000	<a href="#">Industrial Engineer</a> * ◦ <a href="#">Manufacturing Engineer</a> * <a href="#">Electromechanical Engineering Technologist</a> <a href="#">Maintenance Manager/ Superintendent</a> ◦ Range \$35,000 - \$176,000	<a href="#">Supply Chain Manager</a> <a href="#">Procurement Manager</a> <a href="#">Data Warehouse Analyst</a> * <a href="#">Buyer</a> <a href="#">Forest Products Buyer</a> <a href="#">Distribution Center Manager</a> Range \$38,000-\$193,000
Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options	Click <a href="#">HERE</a> 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 different in Xello)



# Advanced Manufacturing Career Pathway at Laona High School



**Your Academic and Career Plan (ACP) for this career pathway starts here...**

Use this page to figure out which classes and activities you will take to prepare for this career pathway. Record your plan in XELLO.

<b>Career and Technical Education Courses</b>	<p>Must include a sequence of at least TWO Career and Technical Education courses which are taught <b>ONLY</b> by licensed CTE teachers.. Should align with <a href="#">Education Building Blocks</a> for the pathway:</p> <ul style="list-style-type: none"> <li>• Welding 1</li> <li>• Welding 2</li> <li>• Welding 3</li> <li>• GMAW 1</li> <li>• SMAW 1</li> <li>• Other Nicolet based courses that students demonstrate knowledge (Competency Based)</li> </ul>				<p>Start creating your professional network through <b>CAREER EXPLORATION PROGRAMS</b>. Record your experiences in XELLO.</p>	
<b>Other Recommended Courses</b>	<ul style="list-style-type: none"> <li>• Solidworks</li> </ul>				<p><u>State:</u></p> <ul style="list-style-type: none"> <li>• Inspire contacts in Xello platform</li> </ul> <p><u>Regional:</u></p> <ul style="list-style-type: none"> <li>• <a href="#">Heavy Metal Tour (Nicolet College)</a></li> <li>• <a href="#">CWIMA Welding and Machine Tool Contest</a></li> <li>• <a href="#">The Branch Academy (NTC)</a></li> <li>• <a href="#">NTC Summer Camps</a></li> </ul>	
<b>Career and Technical Student Organization</b>	<ul style="list-style-type: none"> <li>• <a href="#">Wisconsin Future Business Leaders of America (FLA) Student Organization</a> if students participate in the following events:             <ul style="list-style-type: none"> <li>○ Accounting 2 Event</li> <li>○ Business Calculations Event</li> <li>○ Management Decision-Making</li> <li>○ Supply Chain Management</li> <li>○ Entrepreneurship</li> </ul> </li> </ul>					
<b>Work-Based Learning Options</b>	<ul style="list-style-type: none"> <li>• <a href="#">Youth Apprenticeship-Manufacturing</a> /(450 hrs/year; 1-2 years)</li> </ul>					
<b>Industry Recognized Credential Options</b>  <i>Italics = must be 18 years old to obtain</i>	<b>Production</b>	<b>Engineering and Design</b>	<b>Industry 4.0</b>	<b>Electro-Mechanical</b>	<b>Supply Chain</b>	
	Nicolet Welding Technical Diploma AWS Certification					
<b>College Credit Opportunities</b>  You can find the list of college credit opportunities included in the postsecondary options for this pathway <a href="#">HERE</a> .	<b>College Courses Offered at Your High School</b>					
	<b>Transcripted Credit</b> <ul style="list-style-type: none"> <li>• SMAW 1, Nicolet</li> <li>• GMAW1, Nicolet</li> </ul>					
	<b>College Courses You Can Take at a College Campus</b>					
	<b>Start College Now</b>		<b>Early College Credit Program</b>			