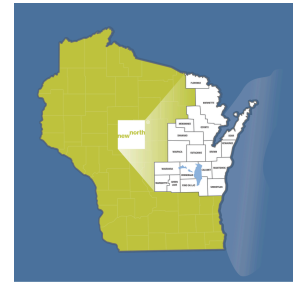


October 1, 2024

Regional Career Pathway Newsletter

NEW NORTH REGION



MANUFACTURING MONTH: EXPLORING CAREER PATHWAYS

October is Manufacturing Month, a time to spotlight the diverse opportunities in manufacturing, an industry integral to the NEW North's economy. From producing essential goods to driving technological innovations, manufacturing offers individuals many opportunities to build rewarding careers. As industries evolve with automation, robotics, and sustainability advancements, the demand for skilled workers grows. This month, we celebrate the vital role manufacturing plays and explore the various career opportunities available to those ready to embrace the future.

The Manufacturing Regional Career Pathway offers a combination of course offerings and hands-on experiences to help today's youth find careers in this exciting job sector. There are numerous avenues to explore, whether product design, engineering, quality control, or logistics. With the proper training and experience, students can pursue roles ranging from machinists and engineers to project managers, contributing to innovative projects shaping our world.

This Manufacturing Month, we encourage students, parents, and educators alike to explore the exciting possibilities within this field. We aim to open doors for the next generation of makers and innovators through school programs, partnerships with local manufacturers, and resources tailored to developing in-demand skills.

For more information, talk to your school counselor or go to the [WI Advanced Manufacturing Pathway](#) for more insights and opportunities as we dive into the limitless potential of manufacturing careers!

October 2024 Edition

Exploring Career Pathways

Reimagining Work-Based Learning

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Breaking Down Regional Career Pathways:

Stories of Impact



Reimagining Work-Based Learning

Recently, the article, [Reimagining Work-Based Learning to Equip Youth with Durable Social-Emotional Skills](#), highlights the growing importance of integrating social-emotional skills into work-based learning (WBL) programs. The report outlines strategies for reshaping WBL experiences to better prepare students for future workforce demands by fostering critical skills like communication, teamwork, and problem-solving. These "durable" skills are essential in navigating modern careers and adapting to an evolving job market.

In the NEW North region, work-based learning not only equips students with practical skills but also strengthens the local economy by creating a skilled and adaptable workforce. As students engage with real-world experiences, they build competencies that make them attractive to local employers, fostering job placement and reducing talent gaps. This connection between education and industry ensures that businesses can thrive with a continuous influx of capable, socially aware workers, contributing to the economic growth and sustainability of the region.



Sargento has been a key partner in supporting work-based learning (WBL) initiatives in the NEW North, providing students with invaluable real-world experiences in the manufacturing and food production industry. Through college internships, Youth Apprenticeships, and mentorship opportunities, Sargento enables students to gain hands-on skills in areas such as engineering, food science, and operations management. Their commitment to WBL goes beyond technical training, as students also develop critical social-emotional skills like teamwork, problem-solving, and leadership. By fostering these experiences, Sargento not only helps students prepare for future careers but also strengthens the local workforce, creating a strategic advantage in their workforce development.

MANUFACTURING MONTH EVENTS

October 1: Dodge Country Highway Department Open House

October 3: Calumet County Discovery Bus Tour

October 8: Fox West Chamber: Miller Electric Company Tour

October 9: Rhode Brothers: Grow Your Future With Us

October 14: Denmark High School: Flex Time Manufacturing Speakers

October 16: FVTC: Express Admissions Day - Appleton, Oshkosh, and Wautoma

October 28 : The Art of Shipbuilding: Behind the Scenes of Burger Boat Company

October 29: Excellence in Manufacturing / K-12 Partnerships Awards Dinner & Program – Resch Expo

October 30: Manufacturing First Expo & Conference – Resch Expo

Breaking Down Regional Career Pathways

Advanced Manufacturing Career Pathway (IAC Code 15.06)						
Name of Region 2024-2027						
Educational Level (May require work experience, experience which could assist with advancement, and educational levels may vary by employer)	Production, Fabrication and Quality Assurance	Engineering, Design and Automation	Industry 4.0	Industrial Maintenance	Supply Chain	Health, Safety, and Environmental Assurance
High School Diploma/Equivalency	CNC Machinist • Welder • Industrial Electrician • Industrial Machinery Mechanic • Production Technician • Quality Control Analysts • Field Service Technician	Quality Assurance Technician • Electronic Service Technician • Solderer •	General Laborer • Shipping & Receiving Clerk • Assembly •	Electrical Engineering Technician • Industrial Engineering Technician • Industrial Maintenance Mechanic •	Robotics Technician • Inventory Control • Production Planner	Environmental Specialist • Industrial Engineering Technician •
Registered Apprenticeship	CNC Technician • Industrial Pipefitter • Instrumentation Technician • Millwright •	Electrical and Instrumentation Technician • Instrument Mechanic • Lubrication Technician • Machinist • Sheet Metal •	Electrical Discharge Machining Technician • Machinist • Tool Maker •	Industrial Electrician • Maintenance Mechanic • Welder •	Industrial Manufacturing Technician • Maintenance Manager •	Environmental Health and Safety Leader •
Associate Degree (or equivalent experience)	Manufacturing Machine Operator • CNC Programmer • Welder • Millwright • Industrial Machinery Mechanic • Food Science Technician • Industrial Electrician •	Mechanical Designer • Electronics Technician • CNC Programmer •	Cybersecurity Specialist • Electronics Engineering Technician • Computer Network Specialist • Manufacturing Engineer • Business Analyst •	Robotics Programmer • Mechanical Engineering Technician • Electrical Engineer Technician • Electro-mechanical Technician •	Materials Planner • Materials Manager • Purchasing Agent •	
Bachelor Degree and Beyond	Manufacturing Manager • Operations Manager • Quality Control Systems Managers • Industrial Engineer •	Electrical Engineer • Automation Engineer • Mechanical Engineer • Quality Assurance Engineer •	Data Scientist • Quality Assurance Engineer • Automation Leader • Process Engineer •	Industrial Engineer • Manufacturing Engineer • Electrical Engineer •	Buyer • Supply Chain Analyst • Procurement Manager • Data Warehouse Analyst •	Environmental Engineer • Safety Team Leader • Safety Engineer • Ergonomist •



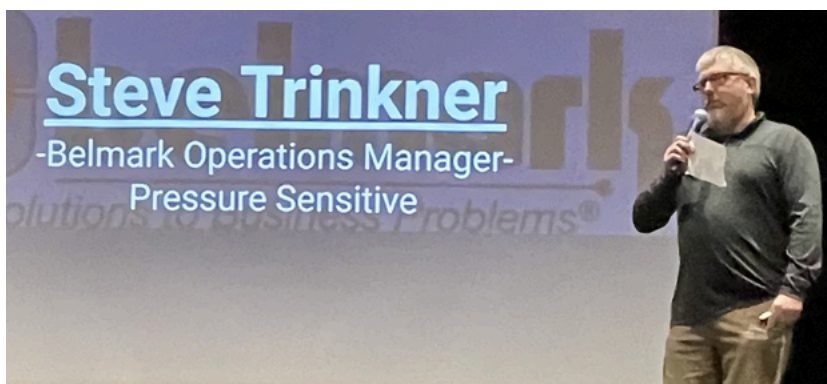
STORIES OF IMPACT

Pulaski High School is excited to announce the launch of its newly expanded Technology Education Department this month. Following a groundbreaking ceremony last spring, the school has worked to enhance its tech ed facilities, offering a comprehensive, cutting-edge environment for students by updating and adding 6,000 square feet to the previous space. The new department now features specialized spaces for automotive mechanics/small engine repair, electronics, metals fabrication, and construction technologies. These improvements are aimed at providing students with practical skills for real-world opportunities, preparing them for technical careers directly out of high school.

During the month of September, classrooms are being reassembled after a summer of construction, allowing students to take on larger, more ambitious projects that involve the local community. Classes such as Raiders Woods, Metals, and Autos, Ag Diesel, Residential Construction, and Residential Wiring, will now allow students to engage in more extensive project-based work, with community members able to have projects built or repaired directly by students. This expansion promises to enhance the students' educational experience and foster stronger community connections, while preparing young adults for a successful future in the workforce.

The Advanced Manufacturing Career Pathway

Advanced manufacturing is a modern approach to making products using the latest technologies and methods. It includes things like robotics, artificial intelligence, 3D printing, and new materials, all of which help make production more efficient, accurate, and cost-effective. These advanced techniques not only improve the quality of products, but also enable the creation of new and better items. This field is crucial for staying competitive in the global market and for driving economic growth and technological progress. Education plays a key role in preparing students for careers in advanced manufacturing. Schools are updating their programs to include more STEM (Science, Technology, Engineering, and Mathematics) skills and to meet industry standards. Students also benefit from work-based learning opportunities such as: youth apprenticeship, cooperative learning, internships, and job-shadowing experiences. These experiences help bridge the gap between classroom learning and actual job skills, ensuring that future workers are ready to meet the needs of the industry and contribute to its growth and innovation.



Ways to Engage

Employers can engage in Work-Based Learning by offering internships, apprenticeships, or co-op programs that provide students with hands-on, real-world experience in their industry. They can collaborate with local schools to create mentorship opportunities, allowing professionals to guide students in developing both technical and soft skills. Additionally, employers can participate in career fairs, workplace tours, or job-shadowing events to introduce students to potential career paths and industry expectations.



STORIES OF IMPACT

On May 9, Luxemburg-Casco High School held a National Youth Apprenticeship Signing Day ceremony for three of its students who will be bridging from Youth Apprenticeship to Registered Apprenticeship. The students, and their respective career pathways, are:

- Caleb Delebreaux – Sheet Metal Fabricating (Manufacturing)
- Max Ronsman – Plumbing (Arch/Construction)
- Tanner Veaser – Plumbing (Arch/Construction)

All three are graduating seniors who have been working in their youth apprenticeship positions at Tweet/Garot over the past year and will continue to do so as Registered Apprentices. Tweet/Garot is a mechanical contracting firm, working nationally from its headquarters in Green Bay.

Joining the students at the National Signing Day ceremony were executives from Tweet/Garot, including the students' supervisors, the students' parents, and representatives from the Sheet Metal Workers Labor Union 18 and the Plumbers & Steamfitters UA Local 400 unions.

The first-ever Youth Apprenticeship Week (YAW), which was held from May 5-11, is a nationwide celebration that highlights the benefits and value of Registered Apprenticeship program opportunities for those ages 16-24. Registered Apprenticeship is an industry-driven, high-quality career pathway where employers can develop and prepare their future workforce. Participants earn competitive wages and obtain the relevant training and experience to start their careers, often while earning college credit.

“National Youth Apprenticeship Signing Day is a significant milestone for our apprentices as they formally commit to their chosen career paths by signing apprenticeship agreements,” says Jolyn Helgeson, school-based youth apprenticeship coach for Northeast Wisconsin Youth Apprenticeship (NEWYA) program. “This is an exciting time in the journey of these students, when they bridge their knowledge and experience as Youth Apprentices to their futures as Registered Apprentices. I am so proud of the commitment that these students have made to their future career pathways.”

