

# 2023 SOUTH CENTRAL TOUR OF MANUFACTURING

FEATURING **13**  
MANUFACTURING  
FACILITIES  
**2** HIGHER EDUCATION  
LOCATIONS

In Person Tours:  
Thursday, October 5th 9am – 3pm

Tours and magazine content available at  
[www.tourofmanufacturing.com](http://www.tourofmanufacturing.com)

**FREE**  
AND OPEN TO  
THE PUBLIC

Photo courtesy of  
South Central College







CPAs & BUSINESS ADVISORS

# build a **better** way.

Eide Bailly is proud to support our local manufacturers in the South Central Tour of Manufacturing. As a top 25 CPA firm in the nation, we've been helping manufacturers reach their goals through services that go well beyond traditional tax and audit. Whether you're updating your technology, filing for R&D tax credits or planning for succession, we can help you make confident business decisions and keep our local economy growing strong.

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# Tour of Manufacturing

of South Central Minnesota

[www.tourofmanufacturing.com](http://www.tourofmanufacturing.com)

Sponsored by:



CPAs & BUSINESS ADVISORS

## Welcome to the 2023 Tour of Manufacturing

In celebration of manufacturing in South Central Minnesota, we are excited to showcase manufacturers each October during the South Central Tour of Manufacturing. Manufacturers across the region have opened their doors to showcase their facilities, products, machines, and the variety of opportunities in their in-demand and high paying sector.

Participants in this year's tour can look forward to accessing information about each contributing manufacturer through this publication, including information about each company such as fun facts, career opportunities, and onsite tours allowing you the experience of what is happening inside the walls of the buildings you drive by every day. Students, job seekers, and those who are just curious, can join the tours, learn about how products are made, and how to get started in a career in manufacturing. This tour is a great opportunity for both high school students exploring careers, as well as current job seekers looking to advance their skillset or make a career change.

Manufacturing employers are hiring and are excited to show the variety of careers they offer, including: finance, production, engineering and design, marketing, IT, robotics, organizational development, maintenance, human resources and more. Manufacturing is innovative and high-tech, it's in-demand, and offers a wage much higher than the regional average.

We would like to thank our participating manufacturers for opening their doors and sharing their story, Eide Bailly for their generous sponsorship and continued investment in this tour, and all of you for participating in this great event year after year. Enjoy the tour!

— South Central Tour of Manufacturing Partnership

# South Central Tour of Manufacturing Partnership:

CareerForce MN  
City of Blue Earth/Faribault County  
City of Fairmont  
City of LeSueur  
Eide Bailly  
Greater Mankato Growth  
Mankato Free Press  
Mankato Public Schools  
MN Dept. of Employment & Economic Development  
MN State Engineering Center of Excellence  
New Ulm Chamber of Commerce  
South Central College  
South Central Service Cooperative  
South Central WorkForce Council  
Waseca Chamber of Commerce

## In gratitude:



CPAs & BUSINESS ADVISORS

We thank 3M for the generous donation of 1000 pairs of safety glasses for participating high school students and to Doherty Staffing for their amazing donation of funds that will provide bussing to students who may not have been able to attend otherwise.

A big thank you to all of the people who invest their time and talents through the South Central Tour of Manufacturing Partnership each year. Without you the tour would not be possible.

And finally, a special thank you to Eide Bailly for the continued sponsorship of the South Central Tour of Manufacturing and commitment to celebrating and promoting manufacturing in Southern Minnesota.



## Thursday, October 5th

### In Person Tours

- 1 Industrial Fabrication Services, Inc (IFS)  
460 Commerce Street, Lake Crystal
- 2 Truck Bodies & Equipment International (TBEI, Inc.)  
52185 Ember Road, Lake Crystal
- 3 Cambria  
31496 Cambria Avenue, Le Sueur
- 4 Data Metalcraft, Inc  
300 3rd Ave SW, Arlington
- 5 Taylor Corporation (The Occasions Group)  
1750 Tower Boulevard, North Mankato
- 6 South Central College  
1920 Lee Blvd, North Mankato
- 7 Dotson Iron Castings  
200 West Rock Street, Mankato
- 8 Automotive & Manufacturing Engineering Technology (AMET)  
Minnesota State University, Mankato  
205 Trafton Science Center East, Tour will be held in Nelson Hall 105, Mankato
- 9 Goodtimes Manufacturing  
217 Maxfield Street, Mankato
- 10 3M - **Student Tours Only**  
1617 N. Front Street, New Ulm
- 11 New Ulm Precision Tool  
2217 South Broadway, New Ulm
- 12 Hewitt Docks, Boat Lifts & Pontoon Legs  
709 Old Hwy 14, Nicollet
- 13 Winegar, Inc  
1209 South State Street, Waseca
- 14 Ron's Plumbing, HVAC & Electric  
660 Business Park Drive, Wells
- 15 Advanced Drainage Systems (ADS)  
1001 Timberlake Road, Fairmont

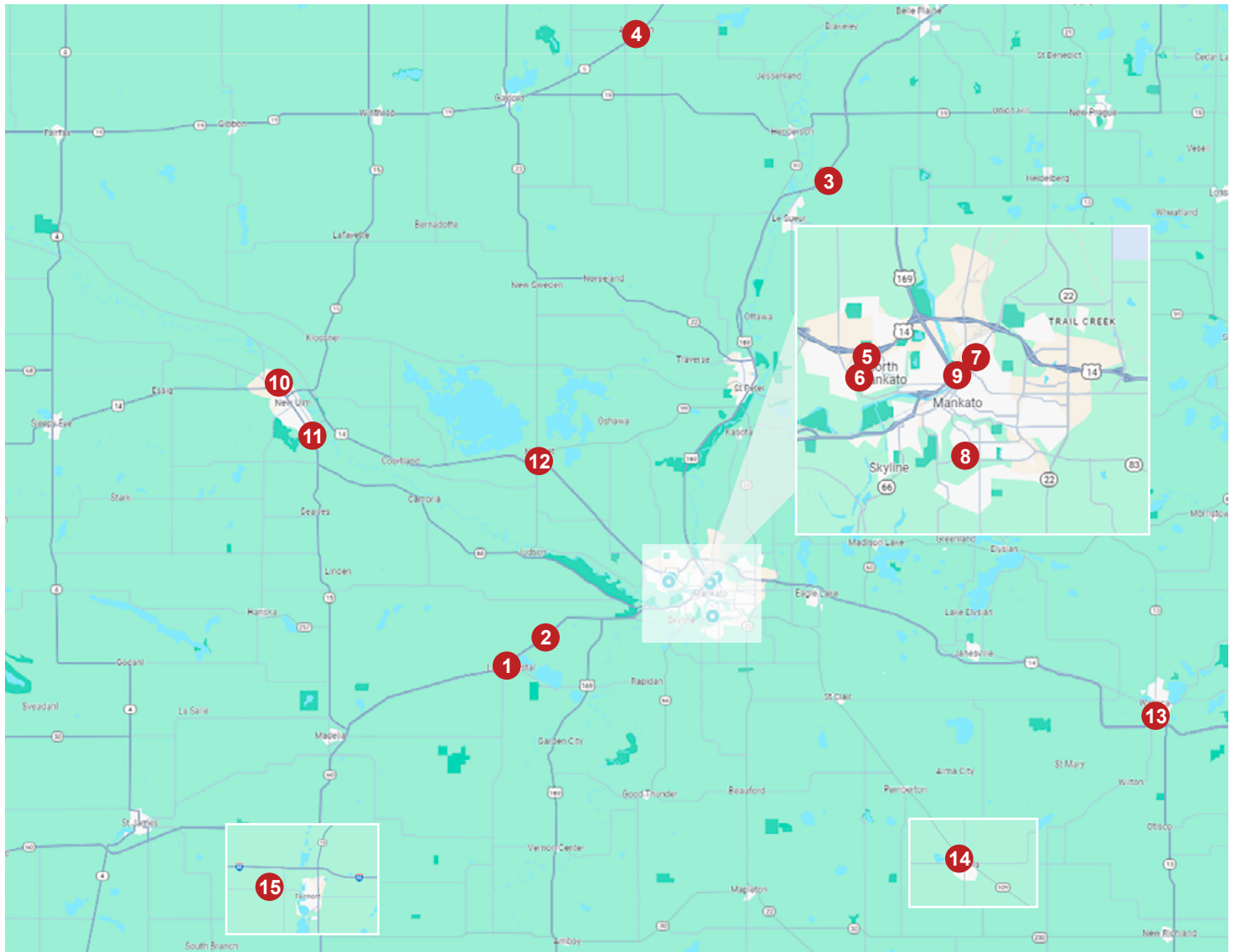


**When touring look for this sign.**



# 2023 Tour of Manufacturing

## - Thursday, October 5th -



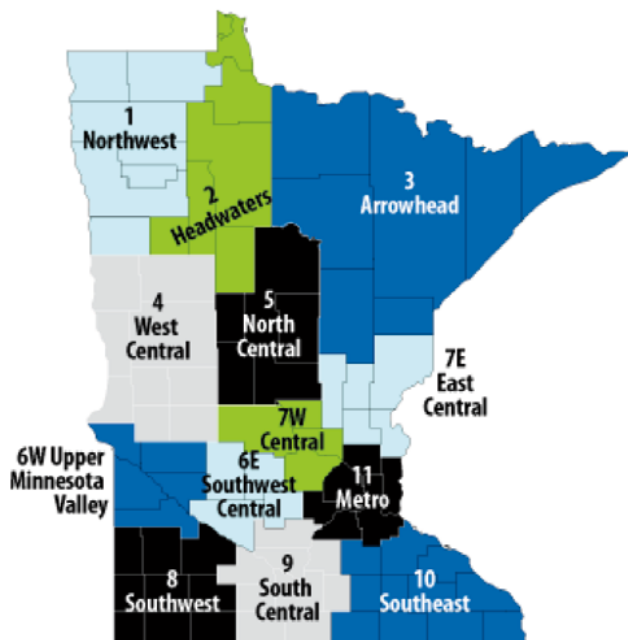
- |   |                                 |               |
|---|---------------------------------|---------------|
| 1 Industrial Fabrication Services, Inc (IFS)  | 460 Commerce Street             | Lake Crystal  |
| 2 Truck Bodies & Equipment International (TBEI, Inc.)   | 52185 Ember Road                | Lake Crystal  |
| 3 Cambria   | 31496 Cambria Avenue            | Le Sueur      |
| 4 Data Metalcraft, Inc  | 300 3rd Ave SW                  | Arlington     |
| 5 Taylor Corporation (The Occasions Group)  | 1750 Tower Boulevard            | North Mankato |
| 6 South Central College   | 1920 Lee Blvd                   | North Mankato |
| 7 Dotson Iron Castings  | 200 West Rock Street            | Mankato       |
| 8 Automotive & Manufacturing Engineering Technology (AMET)<br>Minnesota State University, Mankato | 205 Trafton Science Center East | Mankato       |
| 9 Goodtimes Manufacturing   | 217 Maxfield Street             | Mankato       |
| 10 3M - <b>Student Tours Only</b>   | 1617 N. Front Street            | New Ulm       |
| 11 New Ulm Precision Tool   | 2217 South Broadway             | New Ulm       |
| 12 Hewitt Docks, Boat Lifts & Pontoon Legs  | 709 Old Hwy 14                  | Nicollet      |
| 13 Winegar, Inc   | 1209 South State Street         | Waseca        |
| 14 Ron's Plumbing, HVAC & Electric  | 660 Business Park Drive         | Wells         |
| 15 Advanced Drainage Systems (ADS)  | 1001 Timberlake Road            | Fairmont      |



# Manufacturing in South Central Minnesota

Manufacturing is the largest industry in South Central Minnesota, accounting for 18% of the region's total employment. In 2022, 358 manufacturing firms provided 18,362 jobs with an average annual wage of \$64,532, \$12,280 more than annual wages across all industries.

The Manufacturing industry in South Central Minnesota offers numerous job vacancies and abundant opportunities for jobseekers, with a range of occupations in demand that meet the cost of living. For a typical family (two parents and one child), the hourly wage needed is \$15.45, while for a single person with no kids, it is \$14.30. Occupations such as Miscellaneous Assemblers and Fabricators, Production Worker Helpers, Packaging and Filling Machine Operators and Tenders, Food Batchmakers, First-Line Supervisors of Production and Operating Workers, Welders, Cutters, Solderers, and Brazers, and Inspectors, Testers, Sorters, Samplers, and Weighers offer median hourly wages between \$17.15 and \$33.05, making them attractive choices for individuals seeking rewarding careers in the region.



In quarter 2 of 2022, Southwest Minnesota experienced a record-breaking 3,063 job openings, with 30% of these positions being part-time, 16% requiring post-secondary education, and 30% needing at least one year of experience. This surge in job opportunities reflects the growing demand for skilled workers in the Manufacturing industry, creating excellent opportunities for job seekers to start or advance their careers.

A variety of education is needed to be successful in Manufacturing, ranging from a high school diploma to a bachelor's degree or more. Gaining Manufacturing skills and knowledge early on, such as during high school, can enhance a student's value to employers and provide access to higher-paying jobs at an earlier stage of their career.

With job openings in the region paying better than the median wage offer, currently at \$17.46, the Manufacturing industry plays a pivotal role in providing South Central Minnesota with a resilient economy and a wealth of promising career opportunities. Find more in demand careers in Manufacturing and STEM by using the Career Pathways tool!

<https://mn.gov/deed/data/data-tools/career-pathways-tool/>

For more information, contact:

Amanda O'Connell, Regional Analyst, DEED

[amanda.oconnell@state.mn.us](mailto:amanda.oconnell@state.mn.us)



1

**460 Commerce Street  
Lake Crystal**  
**507.726.6000**  
[www.ifssteelfab.com](http://www.ifssteelfab.com)

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every half hour
- Safety glasses
- Handicap accessible
- Register to win door prize
- Refreshments served
- Employment applications available

**APPLICATIONS AVAILABLE ONLINE:**

[www.ifssteelfab.com/careers](http://www.ifssteelfab.com/careers)



### DIRECTIONS

IFS is located at 460 Commerce Street (Lake Crystal), 12 miles southwest of Mankato, just off Highway 60, in the Lake Crystal Industrial Park. Parking is available on the south side of the building.

## ABOUT INDUSTRIAL FABRICATION SERVICES, INC.

Founded in 1984, **Industrial Fabrication Services, Inc. (IFS)** in Lake Crystal, Minnesota is a custom metal fabrication facility that builds components for many bulk material-handling industries.

IFS was founded by a can-do crew of owner-operators and those roots are still found in today's team of metal-fabricating craftsmen & craftswomen. The team at IFS finds innovative ways to respond to client challenges, be it an overwhelming schedule or a complex design. Their team works with urgency and respect alongside project stakeholders to craft effective metal fabricated solutions for any client challenge. They find solutions by leveraging industry knowledge, skilled

labor and technology to design and fabricate value added solutions for their partners in the construction, processing and energy sectors. IFS ships products throughout the continental USA, Canada, Mexico, and worldwide.

IFS has been in the Lake Crystal community for nearly 40 years. Currently, they employ 95 people in a 75,000 square foot facility. IFS offers a variety of employment opportunities including welders, fabricators, machine operators, industrial blaster/painter, CAD designers, project engineers/managers, and various operations support roles.

IFS, where Impossible Finds Solutions.







**52185 Ember Road  
Lake Crystal  
800.533.0494  
[www.tbei.com](http://www.tbei.com)**

## THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM

- Must wear safety glasses (provided)
- Must wear ear protection (provided)
- Closed toed shoes
- Applications available
- Handicap accessible
- Long pants required

## APPLICATIONS AVAILABLE ONLINE:

[www.tbei.com/careers/](http://www.tbei.com/careers/)

## DIRECTIONS

When you turn off of highway 60, you'll cross the railroad tracks and stay to your right, you'll follow around until you see the flagpole and enter through that door. Additional parking for this can be along the grass/parking lot line.



## ABOUT TBEI

Truck Bodies and Equipment International is a leading manufacturer of dump bodies, end-dump trailers, landscape bodies, containers, roll-off systems, truck bodies, platforms, hoists, and truck and trailer equipment; which encompasses 13 leading brands and is a subsidiary of Federal Signal Corporation.

Founded in 2005, TBEI acquired Crysteel Manufacturing, J-Craft, Inc., Ox Bodies, Inc., Rugby Manufacturing and DuraClass, forming the basis of the TBEI family. TBEI later acquired Travis Body and Trailer in 2016. In 2017 TBEI was acquired by Federal Signal, and the 2021 acquisitions of OSW Equipment & Repair, Northend Truck Equipment, Western Truck Body, and Deist Industries

(including the Switch-N-GO, AmeriDeck, Bucks Fabricating and Roll-off Parts.com brands) further expanded the TBEI family.

Our Lake Crystal, MN facility houses both Crysteel Manufacturing and J-Craft.

Crysteel, founded in 1970 is a cutting-edge manufacturer of Class 3-8 truck bodies and truck and trailer hoists, with an emphasis on municipal and utility applications. With a worldwide distributor network, Crysteel products are the first choice for everyone from landscape professionals to the US Military.

J-Craft has been supplying innovative dump body solutions to the landscape, construction, and municipal snow and ice control industries since 1978. We pride ourselves on being the first choice for top-quality truck packages.





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**31496 Cambria Ave  
Le Sueur  
507.665.5003  
[www.cambriaUSA.com](http://www.cambriaUSA.com)**

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every hour
- Must be 16 years of age and older
- Wavier required
- Closed toed shoes
- Register to win door prizes
- Refreshments served
- Employment applications available
- Handicap accessible



## DIRECTIONS

We are located on the Northside of HWY 169. Exit onto Forest Prairie Road, and then turn right onto Cambria Dr.

## APPLICATIONS AVAILABLE ONLINE:

[www.cambriaUSA.com/careers](http://www.cambriaUSA.com/careers)

## ABOUT CAMBRIA

Cambria is the leading American-made, family-owned producer of quartz surfaces. Every countertop and surface we create is handcrafted in Minnesota where our skilled craftsmen and women maintain the highest standards of quality. It's our hands-on attention to the smallest details from start to finish that enables us to create the world's finest quartz surfaces.

At Cambria there are no small jobs. Only big opportunities. Take charge of your career at an industry-leading company where quality, teamwork, and respect are always business as usual.

### Employment Opportunities:

- Production Operations
- Warehouse Operations
- Process Engineering
- Quality Control
- Maintenance

Cambria offers health insurance, dental insurance, life insurance, company-paid short-term disability, long-term disability, profit sharing, and 401(k) with employer match.

We are always looking for smart, motivated, and talented people. If you're looking to thrive in an environment that recognizes and rewards creativity, ingenuity, and a dedication to excellence, visit us at [www.CambriaUSA.com/Careers](http://www.CambriaUSA.com/Careers).







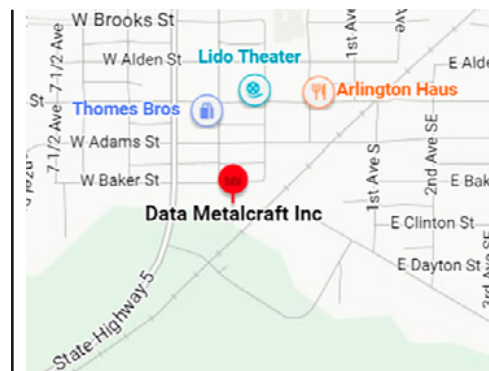
**300 3rd Ave SW**  
**Arlington**  
**952.448.9804**  
[www.datametal.com](http://www.datametal.com)

## THURSDAY, OCTOBER 5, 2023 • 9AM TO 4PM

- Guided tours every hour
- Must have closed toed shoes (no sandals, flip flops, or high heels)
- Must wear safety glasses (provided)
- Must wear long pants, no bare legs
- Employment applications available
- Handicap accessible

## APPLICATIONS AVAILABLE ONLINE:

[www.datametal.com/copy-of-who-we-are](http://www.datametal.com/copy-of-who-we-are)



## ABOUT DATA METALCRAFT INC.

Data Metalcraft Inc. is a full-service metal products contract manufacturer specializing in precision metal fabrication and mechanical and electro-mechanical assemblies. We offer one-stop solutions for our customers by featuring all manufacturing services in-house including design-for-manufacturing services, tubing & framing, and shipping and logistics. Headquartered in Arlington, Minnesota, Data Metalcraft has been serving the greater Midwest region and beyond since its founding 1977. With an emphasis on engineering expertise, service and quality, our highly qualified team delivers complete solutions for your projects' needs.

Since we moving to Arlington, MN in 2022, we have had the ability to

expand our capabilities with new equipment such as tube laser and bending, manual laser welding, and our brand-new powder coat line.





THE OCCASIONS GROUP | THE PREFERRED PRINT PARTNER FOR LIFE EVENTS.

**1750 Tower Boulevard  
North Mankato**  
**507.386.2525**  
[www.theoccasionsgroup.com](http://www.theoccasionsgroup.com)  
[www.taylor.com](http://www.taylor.com)

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

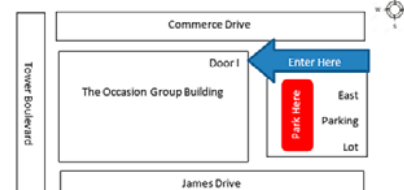
- Guided tours every hour
- Employment applications available
- Closed toed shoes
- Handicap accessible

## APPLICATIONS AVAILABLE ONLINE:

[www.theoccasionsgroup.com/Employment](http://www.theoccasionsgroup.com/Employment)

## DIRECTIONS

Parking – East parking lot, Use Door I



## ABOUT THE OCCASIONS GROUP

The Occasions Group, a Taylor Corporation Company, is one of the top five graphics communications companies in North America, providing a diverse set of products, services and technologies addressing the toughest communication challenges. For 45 years, Taylor has been a premier provider of powerful and innovative products, services and expertise for individuals, businesses, and distributors large and small. Taylor's 10,000+ employees spanning more than 25 states and 9 countries work diligently to create the interactive, printing and marketing solutions that have helped build some of the world's more recognizable brands. Everything they do begins with identifying the unique priorities and needs of their customers and creating

one-of-a-kind solutions.

Learn more about us at [www.taylor.com](http://www.taylor.com) and check out our openings at [www.taylor.com/Careers](http://www.taylor.com/Careers), or text 'Taylor' to 507-479-7363.



## TAYLOR FACTS:

- Glen Taylor, Owner and Founder, started his career with Carlson Wedding Services before purchasing the company in 1975 for what would become Taylor Corporation.
- Taylor has acquired 187 companies in the graphic arts industry over the past 45 years, changing the landscape of printing in America.
- We have more than 40,000 customers, 115 years of manufacturing experience, 170 active U.S. Patents, and 90 production and warehouse facilities.







# South Central COLLEGE

6

1920 Lee Blvd  
North Mankato

507.389.7200

[www.southcentral.edu/  
manufacturing](http://www.southcentral.edu/manufacturing)

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every hour
- Must wear safety glasses (provided)
- Closed toed shoes
- Handicap accessible



## DIRECTIONS

From US-169 or MN-22, exit on US-14 West Follow 14 West into North Mankato Exit onto Lookout Drive and go south (left) Turn left onto Lee Boulevard Park in the front Visitor Lot directly off of Lee Boulevard by the Main Entrance (Door 1) Overflow parking is available in the Red Lot by Door 30

## ABOUT SOUTH CENTRAL COLLEGE

### Why Manufacturing?

Manufacturing is a high demand career field with abundant well-paying jobs and advancement opportunities. Today's sophisticated manufacturing environment calls for individuals with a technical education, and South Central College provides a wide variety of options that let students decide how long they want to go to college and progress at their own pace based on their career goals.

### WHY SOUTH CENTRAL COLLEGE?

South Central College (SCC) offers many certificate, diploma and associate degree options in programs including manufacturing production technology, machine tool technology, mechatronics, energy technical specialist

and welding. All these programs provide students an opportunity to earn industry-recognized credentials, which lets employers know SCC graduates have the knowledge necessary to work in today's high tech manufacturing world. In addition, students can start their career while completing their college degree. SCC's Learn-Work-Earn program lets students work part-time for an area manufacturer while going to school. On-the-job training is combined with traditional classroom instruction, allowing students to master their technical skills, gain experience in the field and earn wages to offset the cost of their education. For more information, visit [www.southcentral.edu/manufacturing](http://www.southcentral.edu/manufacturing). South Central College also

has a special division, Customized Workforce Education, which has a 40-year history of providing employers and employees with short-term career training in manufacturing, workplace safety and more. SCC Customized Workforce Education helps employers upskill their employees and provides individuals with an opportunity to train for a new career field or grow in their current role. Each year CWE provides training to approximately 12,000 individuals. For more information, visit [www.southcentral.edu/cwe](http://www.southcentral.edu/cwe).



## QUICK FACTS

- South Central College (SCC) has been offering advanced manufacturing education since the college's inception in 1946.
- SCC's Campus Foundations provide more than \$500,000 in student scholarships each year.
- The best way to see all SCC has to offer is by visiting campus during the Tour of Manufacturing or check out other visit opportunities at [www.southcentral.edu/visit](http://www.southcentral.edu/visit).
- Applying to SCC is always free at [www.southcentral.edu/Admissions/](http://www.southcentral.edu/Admissions/).





**200 West Rock Street  
Mankato**  
507.345.5018  
[www.dotson.com](http://www.dotson.com)

## THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM

- Guided tours every half hour (last tour at 2:30pm)
- Must have closed toed shoes
- Must wear safety glasses (provided)
- Must wear ear protection (provided)
- Employment applications available online
- Handicap accessible
- Refreshments served

## APPLICATIONS AVAILABLE ONLINE:

<http://dotson.com/careers/>



## DIRECTIONS

Dotson is located at 200 West Rock Street right next to Riverfront Park. Rock Street is located off of Front Street in Old Town Mankato. Travel West on Rock Street toward the river.

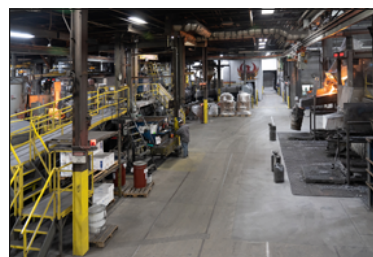
## ABOUT DOTSON IRON CASTINGS

The Dotson Company was founded, in Mankato, in 1876 as a blacksmith shop and has evolved over the years into a highly automated ductile iron foundry and CNC machine shop. Dotson Foundry employees 160 people working 5 days 24 hours per day. Dotson is known in the industry as being highly automated in making and processing castings. Finished products are used in a variety of applications across the globe including lawn mowers, fire trucks, concrete mixers, farm equipment and skid steers. Dotson niche casting size is 15lb up to 50lbs. Dotson is employee owned and focused on creating a world class company by staying true to their core values Advancing with innovation, focusing on results, caring about people, living with integrity. Other information:

The Dotson family has been involved since 1923 About 3,000,000 parts are cast each year in the foundry. Over 90% of the material in finished castings comes from recycled products. Dotson is the only foundry with employee air conditioning vents for hot areas. Liquid iron comes out of the furnace at 2,800 degrees.



**Dotson was recently purchased by MacLean Power Systems and will continue to operate as Dotson Iron Castings.**





**TOUR WILL BE HELD IN NELSON HALL 105**  
**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every hour
- Safety glasses provided
- Handicap accessible



## DIRECTIONS

Buses can drop students off by Nelson Hall on Maywood Ave, then relocate the bus to Parking Lot 22 South (Orange) off Stadium Rd. Other vehicles can park free in the Visitor Pay Lot (Lot 4) off Ellis Ave.

## ABOUT AUTOMATIVE & MANUFACTURING ENGINEERING TECHNOLOGY (AMET) AT MINNESOTA STATE UNIVERSITY, MANKATO

Department of Automotive and Manufacturing Engineering Technology (AMET) at Minnesota State University Mankato (MSU) has been serving the students and the region since 1970s. The department offers Bachelor of Science degree in Automotive Engineering Technology and a BS in Manufacturing Engineering Technology. The department also offers master's degrees in automotive and manufacturing Engineering Technology and Engineering Management.

The AMET Department at Minnesota State University, Mankato has a strong reputation of excellence. The department attracts students from all parts of the United States and the world. Faculty and staff are dedicated to effective

and innovative teaching and individual study to maintain their professional currency. Customized partnerships with business and government create a variety of opportunities for student design projects and internships. This combination of the University's commitment, AMET's dedicated faculty, and its innovative business partnerships ensure its ability to offer the best education for AMET students now and in the future.

The department has innovative and state-of-the-art labs in the field of robotics, 3D Printing, machining, composites manufacturing and automotive diagnostics. The department works with multiple regional and statewide industries on

projects which bring real world problems in the classroom for students to work on. Students continue to work in industry through internships and jobs after they graduate. The department has a strong alumni network, and they continue to hire our students in their organizations.







**217 Maxfield Street  
Mankato**  
507.388.2522  
[www.goodtimesmfg.com](http://www.goodtimesmfg.com)



## DIRECTIONS

We are located at 217 Maxfield Street in Mankato. Use the front entrance located in the middle of the building.

**THURSDAY, OCTOBER 5, 2023 • 10AM TO 4PM**

- Guided tours every hour
- Employment applications available
- Register to win door prizes
- Handicap accessible

## ABOUT GOODTIMES MANUFACTURING

**History:** Goodtimes Manufacturing was established in January 2004, in Mankato, Minnesota. The idea was to establish a company that could be versatile, keep up with or exceed industry standards and demands, provide excellent customer service, and keep solid company ethics.

**Mission:** Goodtimes Manufacturing is a promotional product company based out of Mankato, Minnesota that specializes in screen-printing and embroidery. We are art-driven and our mission is to provide quality workmanship, fast and reliable turnaround time, and one-on-one attention for all of our customers.

**Our Team:** Goodtimes Manufacturing employs 11 full-time employees and 2 part time employees. Our team consists of

graphic artists, customer service representatives, embroidery machine operators, screen print operators, pre-production techs, production, shipping and receiving, operations leadership and accounting.

**Motto:** "We believe that nobody should have to wear an ugly T-shirt."



# 3M Science. Applied to Life.™

**1617 N. Front Street  
New Ulm**

**507.354.8271**

**[www.3m.com](http://www.3m.com)**

**[www.3m.com/3M/en\\_US/plant-locations-us/new-ulm/](http://www.3m.com/3M/en_US/plant-locations-us/new-ulm/)**

## **SCHEDULED STUDENT TOURS: THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every hour
- Waiver required
- Must have closed toed shoes (no sandals, flip flops, or high heels)
- Must wear safety glasses (provided)
- Must wear long pants, no bare legs
- Hair pulled back (above shoulders)
- Handicap accessible

## **CAREERS AT 3M IN NEW ULM:**

[www.youtube.com/watch?v=Q5LlcdgA3Kk](https://www.youtube.com/watch?v=Q5LlcdgA3Kk)

## **APPLICATIONS AVAILABLE ONLINE:**

[www.3m.com/3M/en\\_US/careers-us/](http://www.3m.com/3M/en_US/careers-us/)



**Special Instructions for Parking:**  
Check in at the Building 10 visitor entrance upon your arrival.

## **ABOUT 3M**

3M is a global innovation company that never stops inventing. Over the years, we have worked to improve daily life for hundreds of millions of people all over the world. We have made driving at night easier, made buildings safer, and made consumer electronics lighter, less energy-intensive and less harmful to the environment. We even helped put a man on the moon.

Every day at 3M, one idea always leads to the next, igniting momentum to make progress possible around the world. With corporate operations in 70 countries and sales in 200, we are committed to creating the technology and products that advance every company, enhance every home and improve every life.

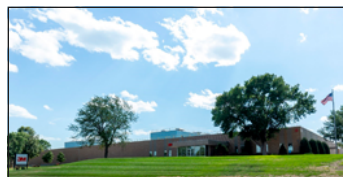
3M began operations in

New Ulm when it purchased a 33,000 sq. ft. building on 60 acres in 1962. The first production line at this site made electrical connectors. The 3M New Ulm Plant is a diversified manufacturing operation that provides products for a wide variety of markets and customers. Our customers value our responsiveness to their needs and the quality we build into every product. We do this with a highly skilled and dedicated workforce that continuously seeks out opportunities to grow and make improvements.

Over the years, we have constructed several additions to the facility and product lines have come and gone. Some of the products with a history in New Ulm (but no longer produced here) include copy machines, medical MRI imagers, medical bone saws and infusion pumps, audio

and video tape recorders, and powdered epoxy resins.

3M New Ulm employees are actively involved in many organizations and volunteer groups in the surrounding communities. In addition to employee involvement, the plant and 3M Foundation partner to provide financial and product donations to dozens of local organizations.







**2217 South Broadway  
New Ulm**  
**507.610.7770**  
[www.newulmprecisiontool.com](http://www.newulmprecisiontool.com)

## THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM

- Guided tours every 1/2 hour
- Safety Glasses
- Employment applications available
- Handicap accessible
- Refreshments served



### DIRECTIONS

New Ulm Precision Tool, Inc. is located at 2217 South Broadway, New Ulm which is on the south end of town between the Best Western Plus (Green Mill) and Jensen Chrysler (formally Maday Motors).

## ABOUT NEW ULM PRECISION TOOL, INC.

**Why Work Here:** New Ulm Precision Tool offers well paid positions to its employees with excellent benefits such as health and dental insurance, 401K plans, company paid short- and long-term disability, life insurance, profit sharing, and a company paid day off for your yearly physical.

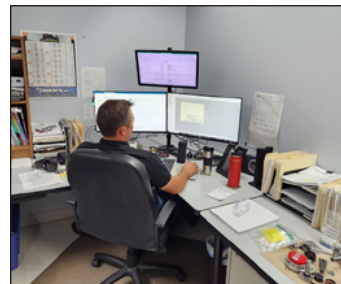
**Quick Facts:** In 2007, New Ulm Precision Tool was sold to Specialty Manufacturing Company (SMC), a private family-owned company located in White Bear Lake. The SMC "group" has been awarded as one of the top 150 workplaces in Minnesota for the past 4 years running.

**Description:** New Ulm Precision Tool, Inc. is a local tool and die shop that was established in 1974. They have earned their place as a leader in the tool and die industry by completing

their work to the highest of standards as well as the customer's expectation. They design and fabricate a broad range of custom tooling for customers locally and nationally, such as: AMPI, 3M, Bobcat, Cambria, John Deere, Case New Holland, and many more. Tooling or projects they commonly work on include: Hydraulic and manual workholding fixtures for CNC machining centers, dedicated machines (metal removal and assembly), stamping dies (blank, progressive, form, etc.), tool crib/replacement parts, medium run production parts, inspection gages and more. Their focus is to ensure the end product is user friendly for operators and set-up personnel and meets their expectations. The success of their company is a

result of strong customer relationships by involving them throughout the design and build process and using

the customers preferred components and formats.



# HEWITT

## DOCKS - LIFTS - PONTOON LEGS

# 12

709 Old Highway 14  
Nicollet

507.225.3421

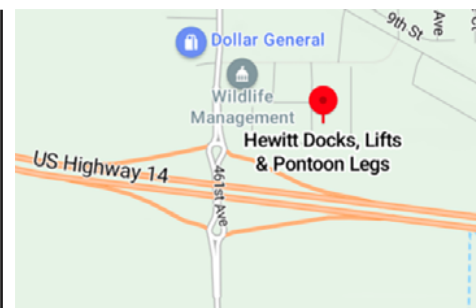
[www.hewittrad.com](http://www.hewittrad.com)

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every hour
- Must have closed toed shoes (no sandals, flip flops, or high heels)
- Ear Plugs
- Smocks or jackets
- Must wear safety glasses (provided)
- Employment applications available
- Handicap accessible
- Must be 16 years of age and older
- Waiver required
- Register to win door prizes
- Refreshments served
- No photos or videos

**APPLICATIONS AVAILABLE ONLINE:**

[www.hewittrad.com](http://www.hewittrad.com)



### DIRECTIONS

Hewitt offices are located just off Old Highway 14 in Nicollet, Minnesota. Please use the entrance on the North side of our facilities labeled OFFICE ENTRANCE.

## HEWITT DOCKS, LIFTS & PONTOON LEGS

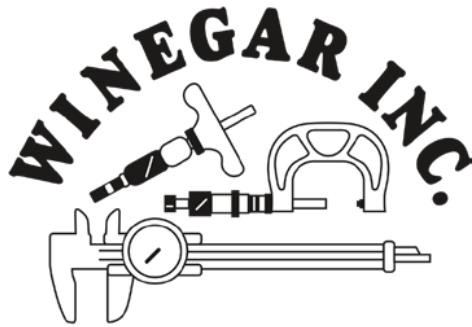
Hewitt Docks, Lifts, & Pontoon Legs is known to marine dealers and waterfront owners as a leading dock and boat lift manufacturer in Minnesota. Hewitt's innovative designs and durable construction are the industry's finest. Hewitt strives to provide products ideal for many waterfront lifestyles and remains the trusted name for quality docks and lifts. The manufacturing plant is located along Highway 14 in Nicollet, Minnesota. The docks and lifts manufactured are shipped to over 400 Hewitt dealers across the U.S., Canada,

and even Belgium and Holland.

In 1971 Larry Hewitt built his first rolling dock as a favor to a friend with a bad back. His friend's request was simple: he needed a dock that was easy to maneuver into and out of the water. Larry Hewitt designed a simple, lightweight dock with a solid support structure modeled on building rafters. Today, Hewitt Docks, Lifts, and Pontoon Legs spans 31 buildings with over 15,000 items for sale. The company annually employs 97 full-time and seasonal workers.







**Precision Machining**

**13**

**1209 South State St.  
Waseca**  
507.835.3495  
[www.winegarinc.com](http://www.winegarinc.com)

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every hour
- Must have closed toed shoes (no sandals, flip flops, or high heels)
- Must wear safety glasses (provided)
- Employment applications available
- Handicap accessible



## ABOUT WINEGAR, INC

Winegar, Inc is located on MN Highway 13 in Waseca MN. and provides machining and assembly services to OE manufacturers and other quality conscious commercial interests throughout the continental United States.

The company was incorporated in 1979 and has grown from a shop with 10 employees to 80 employees, and utilizes 120,000 square feet of manufacturing and warehouse facilities.

Winegar, Inc. provides a wide variety of contract machining services including machining intermediate size steel and iron ductile castings, aluminum castings and bar stock, stainless steel, and other materials. Other services provided include screw machine products,

precision cylindrical grinding, some assembly of components for various applications.





# 14

**660 Business Park Dr.  
Wells**

**507.553.5848**

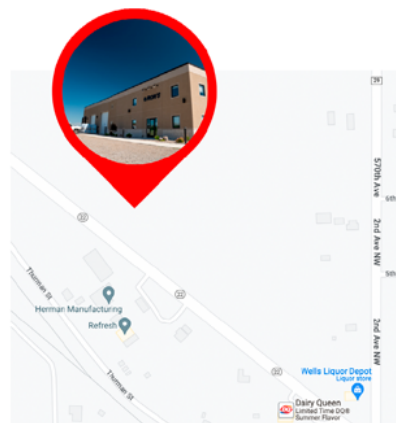
[www.ronsplumbinghvacelectric.com](http://www.ronsplumbinghvacelectric.com)

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every hour
- Closed toed shoes
- Employment applications available
- Handicap accessible
- Register to win door prizes

**APPLICATIONS AVAILABLE ONLINE:**

[www.ronsplumbinghvacelectric.com](http://www.ronsplumbinghvacelectric.com)



## DIRECTIONS

Located in the Business Park in Wells, you can't miss our building! Look for the 3 flags out front and park wherever you'd like.

## ABOUT RON'S PLUMBING, HVAC & ELECTRIC

Ron's is a reputable home service company specializing in plumbing, HVAC, electric, generator sales and service, and water conditioning, with an additional location in Winnebago, Minnesota. No project is too big or too small for this skilled team, as they embrace every job that comes their way.

Recognizing the uniqueness of each customer, Ron's takes pride in customizing every project to cater to the specific needs and preferences of their clients. Their dedication to personalized service has earned them a loyal clientele over the years.

Employing a workforce of nearly 45 individuals, including technicians, managers, and office staff, Ron's offers a wealth of

experience. Notably, many of their employees started as apprentices at Ron's, acquiring valuable skills and knowledge before obtaining licenses in their respective trade.

Ron's has cultivated a distinct work culture that distinguishes them from others in the industry. Offering their employees a 4-day work week, they prioritize a healthy work-life balance to boost productivity and overall job satisfaction. Moreover, their employee incentive program further motivates the team, ensuring a committed and engaged workforce.

In addition to their dedication to exceptional service, Ron's places a strong emphasis on their employees' well-being and team spirit. Throughout

the year, they organize events that allow their staff to relax, bond, and celebrate their collective achievements.

As your trusted partner in maintaining the comfort and safety of your homes and businesses, Ron's offers an array of services to meet the needs of their customers. With their reliable team, expertise, and commitment to customer satisfaction, you can rest assured that Ron's will handle all your needs with proficiency and care.







# 15

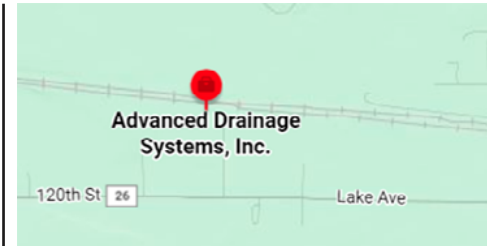
**1001 Timberlake Road  
Fairmont**  
507.238.4791  
[www.adspipe.com](http://www.adspipe.com)

**THURSDAY, OCTOBER 5, 2023 • 9AM TO 3PM**

- Guided tours every 1/2 hour
- Must have closed toed shoes (no sandals, flip flops, or high heels)
- Must wear safety glasses (provided)
- Must wear long pants, no bare legs
- Employment applications available
- Handicap accessible

## APPLICATIONS AVAILABLE ONLINE:

[www.adspipe.com](http://www.adspipe.com)

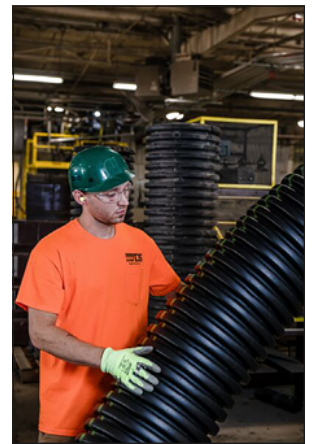


## ABOUT ADVANCED DRAINAGE SYSTEMS

Advanced Drainage Systems is a leading manufacturer of innovative stormwater and onsite septic wastewater solutions that manages the world's most precious resource: water. ADS and its subsidiary, Infiltrator Water Technologies, provide superior stormwater drainage and onsite septic wastewater products used in a wide variety of markets and applications including commercial, residential, infrastructure and agriculture, while delivering unparalleled customer service. ADS manages the industry's largest company-owned fleet, an expansive sales team, and a vast manufacturing network of approximately 70 manufacturing plants and 40 distribution centers. The company is one of the

largest plastic recycling companies in North America, ensuring over half a billion pounds of plastic is kept out of landfills every year. Founded in 1966, ADS' water management solutions are designed to last for decades.

Fairmont's manufacturing plant recently completed expansion which includes 14 acres of land and an additional 30,000 square feet of manufacturing space. This expansion creates job opportunities in the field of maintenance, machine operating, and entry-level manufacturing to add to their current 80 employees from Martin County and beyond.







## Reverse Engineering Challenge

As part of the Southern MN Tour of Manufacturing, students get the fantastic opportunity to visit the Minnesota State Engineering Center of Excellence tour stop and take part in an exciting event known as the Reverse Engineering Challenge. This Center is all about promoting engineering and engineering technology programs from “k” to “gray”, making education more exciting and connecting it with industry while igniting the spark of inspiration in students.

Now, let’s dive into the heart of the matter: the Reverse Engineering Challenge. This is where teams of 2-5 students roll up their sleeves and embark on an engineering adventure. Imagine being handed a challenge scenario and a mysterious product or device. Their mission? To become engineering detectives, just like the pros on TV!

First, they’ll dissect and inspect that intriguing gadget down to the smallest detail. Think of it as a high-tech treasure hunt! Their goal? To find the technology hidden

within that can be used to tackle the challenge at hand. It’s like unlocking the secrets of a modern-day puzzle.

But that’s not all! Once they’ve cracked the code, they’ll put their heads together and create a clever solution using the technology they’ve uncovered. Their brainstorming sessions will be the birthplace of innovation.

But here’s the cool part: they won’t keep your genius to themselves. They’ll step into the spotlight and present their brilliant solution to others, showcasing their teamwork and communication skills. It’s their chance to shine!

But don’t worry, we won’t throw them into the deep end without a paddle. Before the challenge, they’ll receive a sneak peek of the scenario so they can prepare to conquer it with flying colors. Their team will be evaluated based on teamwork, how well they present their findings, and the awesomeness of their proposed solution.

In a nutshell, this activity isn’t just about learning; it’s about



having a blast while exploring the exciting realms of science, technology, engineering, and mathematics (STEM). There will also be some career pathway exploration in our journey! So, gear up for an adventure where education meets fun – the Reverse Engineering Challenge awaits them!





Evan Nadolsky works on a project using one of the CNC machines at SCC's lab.

## Uniquely Abled Academy

### First CNC Program in MN for Young Adults with Autism

The Uniquely Abled Academy at South Central College (SCC) is a program designed to provide individuals with autism the hands-on training and high-tech skills needed to prepare for a career as a computer numerical control (CNC) operator. SCC is the 10th college in the nation and 1st in Minnesota to offer Uniquely Abled Academy, a nationally-developed program through The Uniquely Abled Project.

### What is Uniquely Abled Academy?

In 10 weeks, the Uniquely Abled Academy (UAA) teaches a cohort of young adults with autism to be entry-level CNC machine operators and provides job placement support. Participating students receive over 200 hours of in-class

instruction (classroom and hands-on), plus 60 hours of job readiness soft skills training tailored to young adults with autism. The final week of the program consists of mock interviews with local employer partners who are also looking to hire for their companies.

### Career Pathways for Graduates

South Central College has graduated 14 students from the Uniquely Abled Academy since its launch in 2022. Upon completion, UAA graduates have the opportunity to test for industry-recognized credentials (NIMS), qualifying them for in-demand, higher-wage, higher-skill jobs in advanced manufacturing.

Graduates may choose to continue expanding their skills with additional CNC Machining courses as part of SCC's Machine Tool Technology

program, or they have the option of getting a job and returning to SCC after a while and can even have their additional education paid for by their employers.

At this summer's graduation service, graduate Evan Nadolsky commented on his experience in the program: "I think the best part is the feeling of accomplishment," Nadolsky said. "When you're here and you're making something, you're making it yourself. And it makes it feel like you're making something worthwhile."

Learn more and apply for the next cohort at: [southcentral.edu/uaa](https://southcentral.edu/uaa).

# 5 Great Reasons To Consider Manufacturing



## #1: It pays well.

Manufacturing offers stable, dependable, family-sustaining jobs that pay well.

- **\$70,865** is the average annual manufacturing wage in Minnesota – **10% above the average** for all jobs.
- **\$25.21** is the median hourly wage – almost 14% higher than the total of all other industries.

## #2: There are lots of jobs.

This is a terrific time to start a job in manufacturing.

- **86,500 job openings** are expected by 2028 as older workers retire.
- Manufacturing jobs are **located across the state** and are **11.4% of all jobs**.
- Beyond **production**, employers need people in **information technology, human resources, sales, accounting and more**.

## #3: It's important work in a safe, clean, high-tech environment.

You can take pride in making things people need in a work environment that is safe and clean.

- Some plants are among the **most state-of-the-art and sanitary environments** you can find.
- High-tech machinery and workplace standards are designed to **protect safety and well-being**.
- **Robotics/automation, artificial intelligence and 3D printing** are among the technologies being used.
- Manufacturers **make everything from life-saving biomedical/biotech products to food** and countless other useful products.

## #4: Employers want you.

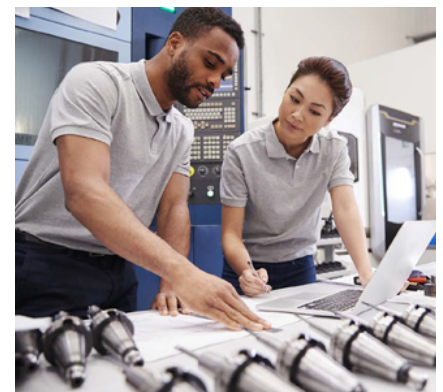
Manufacturing is a great career for everyone.

- Manufacturing workplaces are **increasingly diverse and welcoming**.
- Employers are actively seeking to hire **men and women of all races, ethnicities and backgrounds**.
- **Older workers and people changing careers** are welcome.
- **Manufacturing needs people with all levels of education**, from a high school diploma or equivalent to advance degrees in science, math or engineering.

## #5: You'll have opportunities for growth.

Many employers offer free on-the-job training and other continuous learning opportunities.

- Entry-level jobs **can be a stepping-stone** to higher level positions.
- **Problem-solving skills, math skills, and mechanical aptitude** are valued.
- From hands-on production jobs to executive leadership roles, anyone can **find interesting work with high-earning potential** in manufacturing.



Visit **CareerForceMN.com/Manufacturing**  
to find out more about promising careers in this important industry.



# Nidec

## KATO ENGINEERING™



Located in North Mankato on  
Howard Drive

At Nidec – Kato Engineering, we are proud of our 97-year tradition of innovative design and manufacturing excellence. Located in North Mankato, MN, Nidec – Kato Engineering's 350,000 square-foot facility manufactures alternators, motors, and controls up to 25 MW in size. Known for quality and reliability, our products provide both prime and backup power in a wide range of industries such as Defense, Data Centers, Prime Power, Mining, Oil & Gas, and more.

With over 400 current employees, we are continuing to grow and hiring a wide variety of positions including Manufacturing, Engineering, Accounting, Sales, Purchasing, and much more. Visit [www.KatoCareers.com](http://www.KatoCareers.com) for the full listing of available positions and to learn more about the company.



[www.KatoCareers.com](http://www.KatoCareers.com)

MADE IN U.S.A.



## WE ARE

76 Years Strong  
Independently Owned  
Growth Minded & Agile

## WE OFFER

A Family Feel & Focus  
A Fast-Paced, Fun Atmosphere  
Great Pay, Benefits & Culture

## WE COMMIT

5% to 10% of Net Income Each Year  
to Supporting The Communities we Call Home  
& Causes Important to Our People

## WE PROVIDE

Welding Gases, Supplies & Service  
Automation Solutions & Service  
Beverage Carbonation Gases, Systems & Service  
Locally Made Dry Ice  
Medical & Specialty Gases

## WE WORK FOR YOU.™

Proud to Supply & Serve  
**MANUFACTURERS IN MANKATO & ACROSS MINNESOTA**  
Since 1947.



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[Info@CentralMcGowan.com](mailto:Info@CentralMcGowan.com)

**COMPANY VIDEO**  
[CentralMcGowan.com/about/our-story](http://CentralMcGowan.com/about/our-story)

**CURRENT JOBS/APPLY ONLINE**  
[CentralMcGowan.com/about/careers](http://CentralMcGowan.com/about/careers)

**Mankato Branch**  
**150 Pauley Way**  
**Mankato, MN 56001**

**507-229-5267**  
**[CentralMcGowan.com](http://CentralMcGowan.com)**



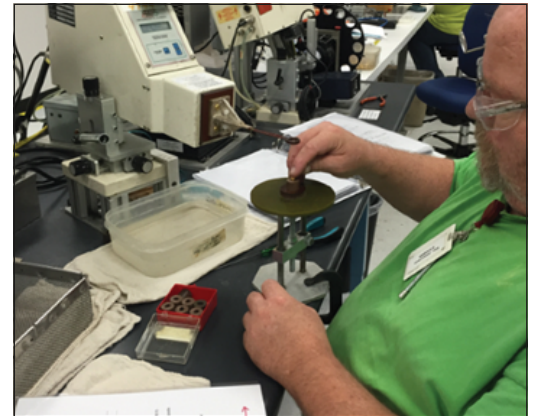


**cinch**  
CONNECTIVITY SOLUTIONS  
a bel group

**299 Johnson Avenue SW ■ Waseca**  
**507-833-8822 ■ [www.belfuse.com/cinch](http://www.belfuse.com/cinch)**

### Company Description

Cinch Connectivity Solutions is a vertically integrated supplier of high quality, high performance connectors, fixed length and semi rigid cable assemblies from DC to 50 GHz, and custom solutions. Their product lines deliver custom-engineered solutions to satisfy the most demanding and complex requirements. Cinch Connectivity's products support aerospace, military, wireless communications, data networking, test and measurement, telecommunications, broadcast, medical, oil and gas and other harsh environment applications. Combined with the strength of our parent company, Bel Fuse Inc., Cinch Connectivity Solutions aims to provide an unparalleled offering to the vast array of industries they serve.

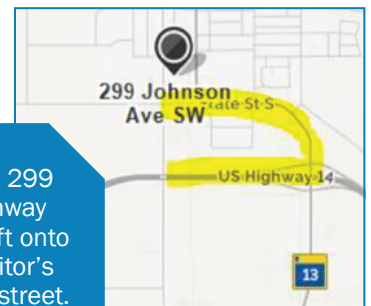


### Why Work Here

Cinch Connectivity Solutions offers career opportunities in the Engineering, Finance, IT, HR, Customer Service, Procurement and Production areas such as Machining, Plating, Quality, Warehouse and Assembly. They also offer Job Shadow and a paid CNC Machinist Apprenticeship Program.

### Directions

Cinch Connectivity Solutions is located at 299 Johnson Avenue S.W. Suite 100. From Highway 14, travel North on Highway 13 and take left onto Johnson Avenue. Parking is available in visitor's parking, on the street and in lot across the street.



### QUICK FACTS

The Waseca business has been an active employer in the Waseca community for over 75 years. Once part of the original E.F. Johnson business, E.F. Johnson began manufacturing radio components in 1923, becoming well-known 20 years later for its radios installed inside WWII military vehicles.

After a series of acquisitions, the business was eventually sold to Bel Fuse, the parent company of Cinch Connectivity Solutions. Bel Fuse is a headquartered in Jersey City, NJ with a global footprint which covers the Americas, Europe and Asia.

The Waseca plant is a vertically integrated facility that employs 220 associates.

They have the capability of providing design solutions to customers for unique operational challenges in a global environment.

Machine Shop tolerances include 100th thickness of a human hair. Their machining capabilities also include a high precision turning machine capable of machining down to 1 micron. This machine is one of only two that exist in the world.

They are proud to be a member of the Waseca Chamber of Commerce, and annually provide assistance to the community in the form of charitable giving, scholarships and employee volunteers.

# Thin Film Technology Corporation

Quality Manufacturing of Custom Components

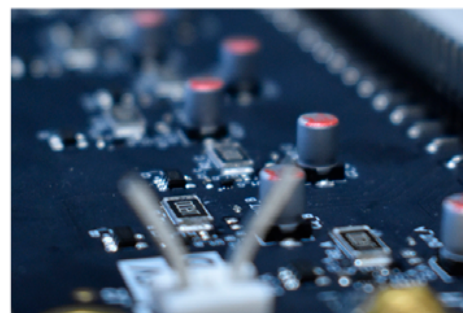


At TFT, we have engineered our entire manufacturing process to revolve around uncompromising quality standards. Each component we produce undergoes rigorous testing and inspection, ensuring it meets the strictest quality benchmarks. From resistors and shunts to attenuators and more, our products are meticulously crafted to perform flawlessly under the most demanding conditions. With these standards in place, we have been able to partner with companies worldwide in an array of different markets including automotive, telecommunication, industrial automation, and energy storage.

Join TFT to embark on a journey of innovation and growth. We believe in nurturing talent and providing opportunities that empower individuals to thrive in the dynamic world of electronic solution manufacturing. Whether you're an experienced professional seeking a new challenge or a student eager to gain hands-on industry experience, our doors are always open for you.

For more information on available positions:

- Email: [hr@thin-film.com](mailto:hr@thin-film.com)
- Website: <https://www.thin-film.com/>
- Phone: 507-625-8445
- Address: 1980 Commerce Drive, North Mankato, MN 56003



## Aerospace & Defense

Nortech Systems manufactures military cable assemblies for communications, ground support, testing, and training applications, including molded cable assembly, PCBA, and EMS applications. Join the team by applying online.



1930 W 1st St,  
Blue Earth MN 56013



(807) 821-1240



[nortechsys.com/careers/](https://nortechsys.com/careers/)

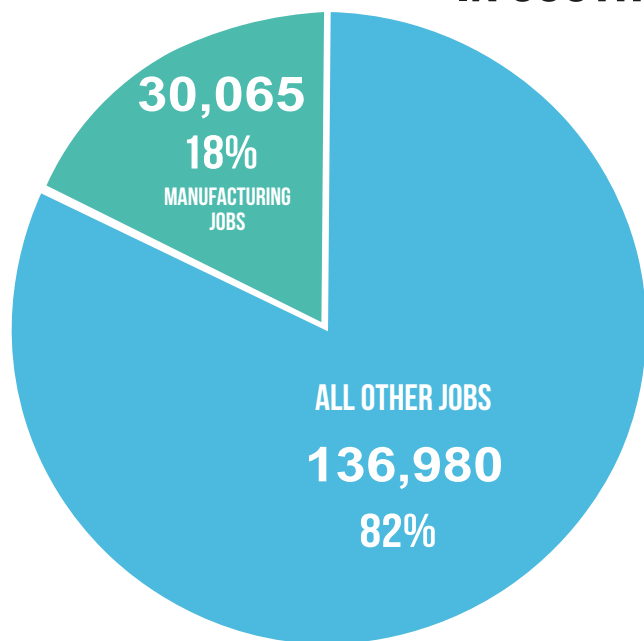






# MANUFACTURING CAREERS

## IN SOUTHWEST AND SOUTH CENTRAL MINNESOTA



### MANUFACTURING IS THE LARGEST INDUSTRY IN THE REGION.

1-in-5 jobs are at manufacturers in Southwest & South Central Minnesota.

There are numerous non-traditional manufacturing occupations for women, including maintenance and repair workers, machinists, industrial machinery mechanics, CNC machine operators and mechanical engineers.

**1 IN 3 MANUFACTURING JOBS ARE HELD BY WOMEN.**



MEDIAN WAGES FOR JOBS HELD BY WOMEN IN SOUTHWEST AND SOUTH CENTRAL MN



### MANUFACTURING CAREERS FOR WOMEN IN SOUTHWEST AND SOUTH CENTRAL MINNESOTA

Industrial Engineers \$39.41/hr	Mechanical Engineers \$38.15/hr
Electricians \$27.60/hr	Industrial Machinery Mechanics \$25.32/hr
Maintenance and Repair Workers \$22.15/hr	Industrial Engineering Technician \$24.87/hr
Truck Drivers \$21.89/hr	Machinists \$23.08/hr
Computer Controlled Machine Tool Operators \$18.92/hr	Laborers \$18.08/hr

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PRIVATE INDUSTRY COUNCIL**

**CareerForce**



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# CAREER PATHS IN MANUFACTURING

IN SW/SC MN

## 4-YEAR OR MORE COLLEGE DEGREE AND/OR EQUIVALENT EXPERIENCE

Industrial Engineers  
**\$39.41**

Mechanical Engineers  
**\$38.15**

Sales Representatives,  
Wholesale and  
Manufacturing, Technical  
and Scientific Products  
**\$25.97**

## 1-2 YEAR COLLEGE DEGREE (OR CREDENTIAL)

Machinists  
**\$23.07**

Industrial Machinery  
Mechanics  
**\$25.32**

Industrial Engineering  
Technicians  
**\$24.87**

## HIGH SCHOOL DIPLOMA OR GED / ON-THE-JOB TRAINING

First-Line Supervisors/  
Managers of Production  
and Operating Workers  
**\$30.45**

Packaging and Filling  
Machine Operators  
and Tenders  
**\$17.55**

Welders, Cutters,  
Solderers, and Brazers  
**\$20.77**

## WHY CHOOSE A CAREER IN MANUFACTURING?

Manufacturing provides just shy of 20 percent of all total employment in the region, making it the largest industry in the region just ahead of health care and social assistance. Southwest and South Central is the only region in the state where manufacturing is the largest employing industry. Average wages in manufacturing are 20.5 percent higher than the total of all industries.

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PRIVATE INDUSTRY COUNCIL**

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**CareerForce**  
It's your state of success



View videos of career paths in manufacturing:  
[www.careeronestop.org/Videos/CareerVideos/career-videos.aspx](http://www.careeronestop.org/Videos/CareerVideos/career-videos.aspx)

These jobs are in demand in Southwest and South Central Minnesota and these are SW/SC Minnesota Median wages. Data collected from Department of Employment and Economic Development.



# In Demand Manufacturing Careers

## CNC PROGRAMMER AND MACHINIST

## WELDERS

### EDUCATION



Some operators are trained on basic machine operations and functions in a few months. Other workers, such as computer-controlled machine tool operators, may need up to two years to become trained.

High school diploma or equivalent, combined with technical training and on the job training, welding certificate



### IMPORTANT QUALITIES



- High degree of autonomy
- Troubleshooting
- Integrity
- Industrial automation
- Process management
- Data entry

- Detail oriented
- Self-starting / Self-motivated
- Problem solving
- Integrity
- Dependability
- Team player
- Work independently
- Basic computer skills



### WHAT THEY DO



Operate programming software to generate computer numerically controlled (CNC) programs used to control CNC machine tools that drill, mill, rout, grind, or notch.

Responsible for assembling structural metal products using tools, welding equipment, and their own hands.



### EMPLOYMENT OPPORTUNITIES

**MEDIAN HOURLY WAGES** **\$18.39** **\$25.62** <sup>TO</sup>

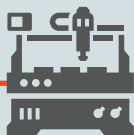
Demand is expected to be strong, as many firms are adopting technologies such as machine tools and robots.

*These jobs are in demand in Southwest and South Central Minnesota and these are SW/SC Minnesota Median wages. Data collected from Department of Employment and Economic Development.*

**MEDIAN HOURLY WAGES** **\$17.20** **\$23.29** <sup>TO</sup>

Types of welders in demand: arc and gas welding

### WORK ENVIRONMENT



These workers often operate powerful, high-speed machines. Operators usually wear protective equipment, such as safety glasses, earplugs, and steel-toed boots to protect them from flying particles of metal or plastic, machine noise, and heavy objects.

Welders and cutters may work outdoors, or indoors, sometimes in a confined area designed to contain sparks and glare.

Most welders work full time, and overtime is common.



2022

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*It's your state of success*

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# In Demand Manufacturing Careers

## MECHANICAL ENGINEERING TECHS

## INDUSTRIAL ENGINEERS

### EDUCATION

Most employers prefer to hire candidates with associate's degrees or other postsecondary training in mechanical engineering technology.

Industrial Engineers typically need a bachelor's degree in mechanical engineering or mechanical engineering technology.

### IMPORTANT QUALITIES

- Project Management
- Work independently
- Manufacturing process
- Problem solving
- Troubleshooting
- Process Improvement
- Risk Management
- Detail oriented
- Creativity

- Project Management
- Problem solving
- Data Analysis
- Product development
- Work independently
- Management skills

### WHAT THEY DO

Mechanical engineering technicians help mechanical engineers design, develop, test, and manufacture mechanical devices, including tools, engines, and machines. They may make sketches and rough layouts, record and analyze data, make calculations and estimates, and report their findings.

Develops and documents the required parameters for machines and tools used to produce products. Analyze problems to see how mechanical and thermal devices might help solve a particular problem. Investigate equipment failures or difficulties to diagnose faulty operation and to recommend remedies. Analyze the test results and change the design or system as needed. Oversee the manufacturing process for the device.

### EMPLOYMENT OPPORTUNITIES

**MEDIAN HOURLY WAGES** **\$14.00 TO \$26.38**

Employment of industrial machinery mechanics and machinery maintenance workers is projected to grow 6.3 percent from 2018 to 2028.

**MEDIAN HOURLY WAGES** **\$31.95 TO \$45.18**

Employment of industrial engineers is projected to grow 6.2 percent from 2018 to 2028.

*These jobs are in demand in Southwest and South Central Minnesota and these are SW/SC Minnesota Median wages. Data collected from Department of Employment and Economic Development.*

### WORK ENVIRONMENT

Mechanical engineering technicians assist with manufacturing processes in factories or with development phases in research and development labs before manufacturing takes place.

Industrial Engineers generally work in offices. They may occasionally visit worksites where a problem or piece of equipment needs their personal attention.



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