

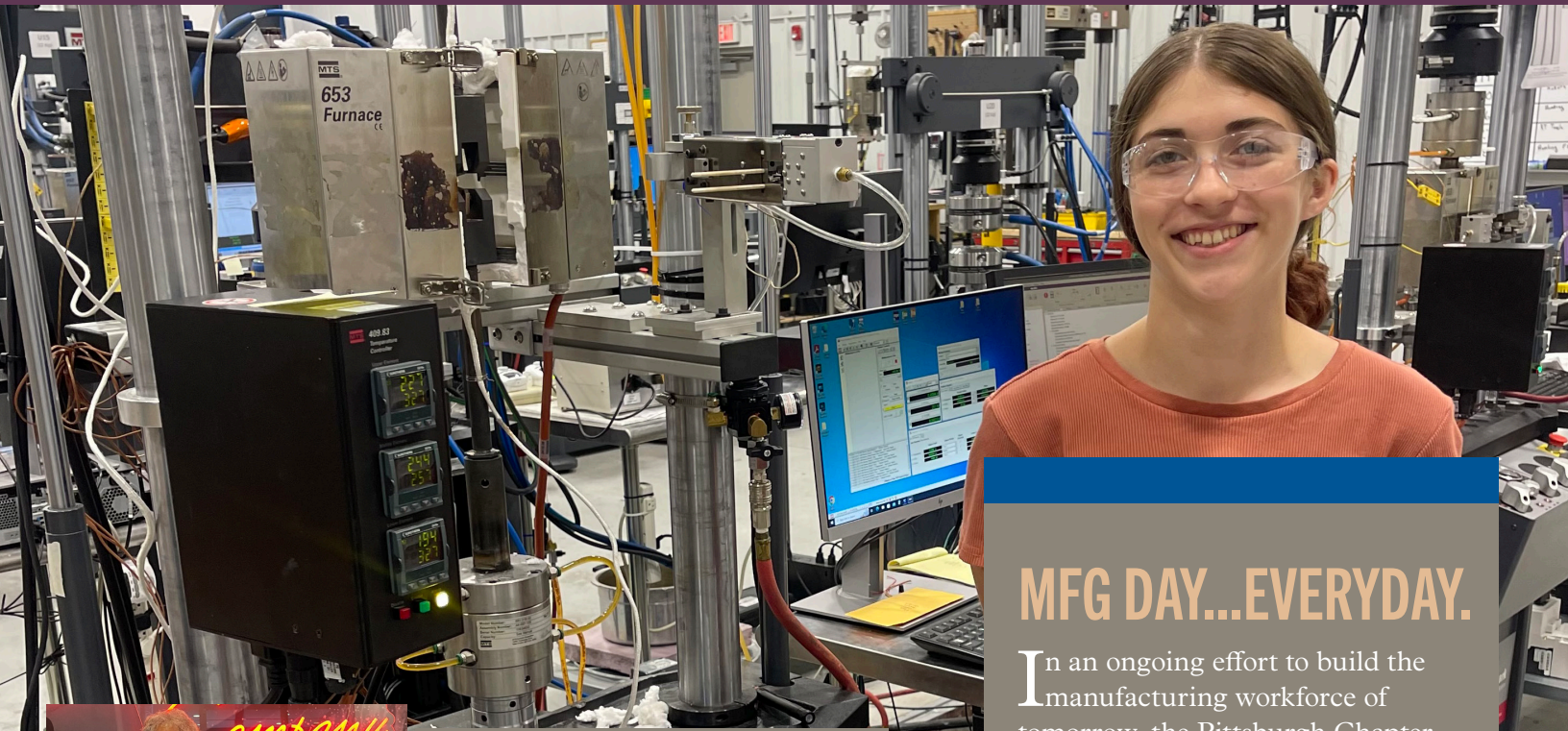
 NTMA

PITTSBURGH

CHAPTER

SHAPING THE FUTURE OF SOUTHWESTERN PENNSYLVANIA MANUFACTURING WITH CUTTING-EDGE PRECISION.

SEPTEMBER 23



MFG DAY...EVERYDAY.

In an ongoing effort to build the manufacturing workforce of tomorrow, the Pittsburgh Chapter NTMA's BotsIQ team congratulates the eleven students who successfully completed the 2023 Summer Internship Program. Seven recent high school graduates participated in the 6-week program, while four college students completed the new 10-week college cohort.

CONTINUED ON PG. 4



SPOTLIGHT ON INTERNS

Meet three of our interns and learn about their path and their future. [pg. 6](#)



PLANNING YOUR MFG DAY

Tips and resources to host your own event in October. [pg. 8](#)



STARTING EARLY

Manufacturing education starts early with BotsIQ summer camps. [pg. 10](#)

ALSO IN THIS ISSUE:

- 2 A GREAT DAY FOR THE MANUFACTURING OPEN WAGE & FRINGE BENEFIT SURVEY
- 12 WHY WiM?
- 13 WELCOME NEW MEMBERS
- 14 REGISTER NOW FOR ENGAGE

PGH NTMF FOR THE WIN

by Kevin Hartford, President of the Board, PGH NTMA/NTMF

We are pleased to announce that this year's annual golf outing was a sold-out event. We had 116 golfers making up 29 foursomes. It was a beautiful day and everyone appeared to enjoy themselves. There was a great deal of camaraderie among the participants.

The 2023 PGH NTMF/ Kurt J. Lesker Manufacturing Open raised over \$12,000 to support our workforce development programs. While it wasn't the most revenue we've ever generated, we were happy with the results and we greatly appreciate everyone's help and support. Thank you to the long-time PGH NTMA/PGH NTMF supporters and also to the new golfers who joined the group this year.



Thank you to Jeff Astley for once again being our gracious host. The course was in excellent condition. We sincerely appreciate Jeff's support and Westmoreland Country Club's continued support of our association.

Thank you to our staff who once again stepped up and did a wonderful job organizing and hosting.



Finally, I would especially like to thank Kurt J. Lesker Company for being our naming sponsor. Kurt J. Lesker is a long-time member of the Pittsburgh Chapter NTMA. Two of their executives currently serve on our board, Chuck DeVentura and Ed Frieze. The company continues to be a leader within our chapter.

Thank you to all who made this year's event possible. We look forward to seeing you again next year.



2023 WINNERS

1ST PLACE:

Dale Saller, Ryan Banks, Weston Banks, Anthony Cesare

2ND PLACE:

Mike Weber, Andy Gallina, Michael Herzog, Scott Suess

3RD PLACE:

Chris Matthews, Matt Seifert, Martin Vaghn, Chuck Gaston

MOST HONEST TEAM:

*JK Tool Company
Greg Costa, James Clinger,
Michael Carlson, Matt Komarinski*

CLOSEST TO PINS:

Ryan Banks, Jimmy Postufka, Dan Monarko, Ryan Banks

LONGEST PUTT:

JT Mowery



SPECIAL THANKS TO OUR SPONSORS:

Kurt J. Lesker[®] Company

ENABLING TECHNOLOGY FOR A BETTER WORLD



Penn State Tool & Die Corporation



Employee Owned and Operated

- Allegheny Machine Tool
- AW Miller
- Chick Machine Company
- Dura-Metal Products
- Enterprise Bank
- Friends of BotsIQ
- Frost Brown Todd LLC
- Grossman Yanak & Ford
- H. Gerstner & Sons
- Haas Factory Outlet Pittsburgh
- InTech Solutions
- JK Tool
- Jatco Machine and Tool Co., Inc.
- Kevin Hartford, PGH NTMA President
- Kiski Precision Industries
- Metal Solutions Inc.
- Metplas, Inc.
- Oberg Industries
- PDS Industries
- Pennsylvania Steel Co.
- Penn Stainless Products
- Pittsburgh Brewing Company
- PNC Bank
- S & S Tools
- Westmoreland Country Club

SPEED • POWER • PERFORMANCE



Superior Quality and
Service



The support you need to
Make What Matters

Allegheny Machine Tool Systems, Inc.

632 E. McMurray Rd. ▪ McMurray, PA 15317

Phone: (724) 942-4451 ▪ Toll Free: (800) 269-4090 ▪ Fax: (724) 942-4453

www.allegmach.com

INTERNSHIP: THE IMPACT OF EXPERIENCE



“I think I always knew I had a special interest for this kind of stuff. End of middle school, beginning of high school, I started thinking this is probably the route I’m going to take...”

—Ryan Murtha
Penn State student,
summer intern

continued from page 1

Interns worked 4–5 days per week at their worksite, gaining hands-on experience that was supplemented by BotsIQ. Structured learning opportunities helped to build their career readiness and professional skills.

Before the interns begin their summer work experience, they attend BotsIQ’s onboarding days which includes OSHA-10 training (Safety First!). Throughout the internship, students gain on-the-job training at their host

company, as well as critical soft skills during BotsIQ’s professional development days. During the professional development days, the interns update their resume, create a cover letter and reference page, design a business card, create a LinkedIn profile, and receive invaluable instruction in interviewing and best practices for presentations. This year, interns received guided Dale Carnegie Training to enhance their interpersonal and networking skills. Interns get a real-life look at how to secure a job with an

area manufacturer and how to become an asset in their new position.

This summer’s interns met with HR and manufacturing professionals and toured three different facilities: Aerotech, Roechling Machined Plastics and Premier Automation.

THANK YOU TO THE FOLLOWING COMPANIES WHO ASSISTED WITH PROFESSIONAL DEVELOPMENT DAYS:

- Acuity Human Resources
- Aerotech, Inc.
- Cleveland/Price Inc.
- Dale Carnegie Training

THAT’S A WRAP!



11 INTERNS



8 COMPANIES



3 COUNTIES



“The internship was prep for the “real world”...I was taught something new every day.
Emily Ranf - PES Intern

“This internship program introduced me to future careers that could fit my future perfectly.
Ryan Murtha - General Carbide Intern

“The experience I gained can never be taught in a classroom.
Andrew Massari - Hamill Manufacturing Intern

HEAR OUR
INTERNS’
STORIES ON
THE FOLLOWING
PAGES...

by Maria Campieri, Workforce Development Manager, BotsIQ

- DMI Companies
- EbTech Industries
- Elizabeth Companies
- FS-Elliott
- Penn United Technologies Inc.
- PNC Bank
- Premier Automation
- Roechling Machined Plastics

2023 INTERN HOST COMPANIES:

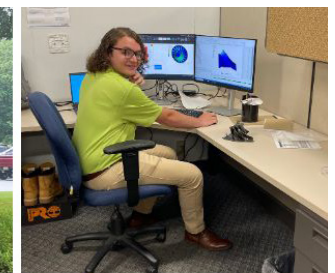
- BalTec
- FS-Elliott
- General Carbide
- Hamill Manufacturing
- L&S Machine
- Lesleh Precision
- PES
- RETAL

Planning for summer 2024 is already underway. If you are interested in hosting an intern or participating in professional development, please reach out via email to campieri@botsiqpa.com.

The Pittsburgh Chapter NTMA BotsIQ Summer Internship program is made possible through the generous support of Westmoreland Fayette Workforce Investment Board and EQT Foundation.

EQT Foundation

WIB
Workforce Investment Board
Westmoreland & Fayette Counties



THE FUTURE FACES OF MANUFACTURING

INTERN SPOTLIGHTS

KAITLYN DURAY

Hometown: Greensburg, PA
High School: Hempfield Area HS
University: Penn State
Class of: 2026
Major: engineering



Kaitlyn Durray spent her summer working at L&S Machine Co. in Latrobe. She began her internship running machines and shadowing people at the company. As she learned more about the operation of the company, she began working the factory side of the business.

L&S uses software called FactoryWiz to connect all of the machines to a network and to track operational data. During Kaitlyn's internship, she worked closely with owner Rob DiNardi and Jason Campbell to get the system up and running. It's a position she can now do remotely part-time. Her BotsIQ experience sparked her interest in manufacturing. For all four years of high school, she was actively involved with the Hempfield RoboSpartans.

"I did a lot of the documentation and helped with the blueprints. I'm also very hands on. After my first competition and seeing them in the pits, I just knew it was something I loved to do," Kaitlyn said. After completing her sophomore year at Penn State Altoona, Kaitlyn plans to transfer to University Park and specialize in either mechanical or industrial engineering.



RYAN MURTHA

Hometown: Greensburg, PA
High School: Hempfield Area HS
University: Penn State
Class of: 2026
Major: mechanical engineering



Tech Ed classes in middle school sparked Ryan Murtha's interest in manufacturing. He had a successful run with BotsIQ in high school and is now in his second year at Penn State. During the summer of 2022, Ryan interned with Hamill Manufacturing with a focus on documentation. This year, he spent his summer at General Carbide. "Basically, they have a cobot. It's been sitting in a room for the past four years, and no one really has a place for it to go, so we were tasked with learning the cobot and getting it up and running and putting it into production," Ryan explained. Ryan and his fellow intern spent the summer talking with the experienced machinists and engineers. They watched YouTube videos and reached out to the cobot's manufacturer and other area companies who utilize similar machines. This summer he improved not only his manufacturing knowledge, but also

his creative thinking. Ryan plans to become a mechanical engineer. His dream job would be working at a theme park designing or engineering mechatronics or rides.



NOAH PROCTOR

HOMETOWN: Butler, PA
HIGH SCHOOL: Butler Area Senior HS
COLLEGE: PennWest California
Class of: 2023
Major: Electrical Engineering Technology



Noah Proctor's interest in manufacturing stems from his internship with MetPlas during the summer of 2022. He says it's the problem solving that made him so interested in a manufacturing career.

"I like the aspect of the 'high end' problem solving, where you can't just immediately find a fix. You sit down, think, leave work and make dinner, then it's the morning and you think of a possible fix as you walk in," Noah explained.

During his time at MetPlas, he did a lot of quality assurance and inspection which built his confidence in reading drawings. He also assisted with a UR10 Universal Robotics arm that worked in conjunction with the CNC machine and with writing workstation instructions for a FaroArm, which is effectively a 3D caliper.

His experience landed him another internship during his senior year closer to school with PowerEx which ultimately lead to a full-time position as a junior



process engineer. I remain ever thankful to the folks at MetPlas. The machinists were extremely knowledgeable and hard working, and the management team keeps the place together. The captain steers and the oarsmen row. Very tight ship."

Minimizing Risks in an Ever-Changing Market

Frost Brown Todd is a full-service law firm serving some of America's top corporations. Our manufacturing attorneys excel in areas such as:

- Labor & Employment
- Litigation
- Antitrust
- Intellectual Property
- Supply Chain
- Transactions
- Construction
- Environmental
- Real Estate
- Government Relations

Jordan S. Blask | Member | Pittsburgh
412.513.4268 | jblask@fbtlaw.com

**Frost
Brown Todd** LLC
ATTORNEYS

frostbrowntodd.com

Union Trust Building | 501 Grant Street | Suite 800 | Pittsburgh | 412.513.4300
©2020 Frost Brown Todd LLC. All rights reserved. ADVERTISING MATERIAL.
Legal services may be performed by other lawyers at the firm.

OUR CUSTOMERS KEEP COMING BACK.

FIND OUT WHY.

**TRUST US
WITH YOUR:**

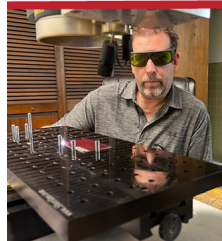
- Mold Making
- CNC Machining
- Engineering
- EDM
- Small Parts
- Close Tolerances
- Laser Welding
- Laser Engraving

WE'RE NOT JUST CREATING PARTS. WE'RE CREATING RELATIONSHIPS.

JATCO

MACHINE & TOOL CO., INC

www.jatcomold.com ▪ 412.761.4344 ▪ sales@jatcomold.com



MFG Day Host Toolkit

RESOURCES BROUGHT TO YOU BY THE MANUFACTURING INSTITUTE, THE FOUNDER OF MFG DAY.

Now in its 11th year, the country celebrates Manufacturing (MFG) Day on the first Friday in October to kick off Manufacturing Month and demonstrate the reality and future of modern manufacturing careers. The concept is quite simple and effective: open your doors to students, educators, parents and community leaders and show them what manufacturing is all about.

Thousands of companies from across the country use this opportunity to showcase modern manufacturing jobs and technologies and highlight the impact of manufacturing in communities and the nation.

MFGDay.com is the official hub for annual manufacturing holiday. Visit the site and you'll find resources that make it simple to host your own MFG Day event. The basics are condensed below to inspire YOUR event.

FIVE-STEP PROCESS:

- Determine your event type
- Connect with local partners
- Register your event
- Create a plan
- Promote your event

DETERMINE YOUR EVENT TYPE:

Not sure where to start? These events are proven winners that always draw interest and engage communities:

- Plant Tours
- Community Events and Expos
- Educational Fairs
- Classroom Visits
- Company Family Day
- Celebrations

Regardless of the type of event, MFG Day is a great way to both shift perceptions about manufacturing with students and tie manufacturing careers to creativity, problem-solving, teamwork and technology.

CONNECT WITH LOCAL PARTNERS:

Local partners may include other area manufacturers or your community partners. Encourage businesses, schools and political leaders to participate in your MFG Day event. Have a supplier who may be able to assist or offer a demonstration? Do you have a local partnership you'd like to highlight? Are your local government leaders interested in saying a few words? Make it a community affair.

REGISTER YOUR EVENT:

Registering your MFG Day event at www.MFGDay.com will add it to the MFG Day national map and you'll have an event landing page hosted on the site. This also assures your event is published in a searchable list that is shared with state and federal government officials. No event is too small to be included!

CREATE A PLAN:

Allow plenty of time to design and execute your plan for a successful event.

Here are a few things to keep in mind:

Content: Develop presentation topics, presenters and event flow.

Location and Presentation Techniques: Examine venue and format logistics.

Audience Engagement: Leverage existing relationships with your local schools, youth organizations, workforce board, regional and state associations and Manufacturing Extension Partnership to make additional connections.

Communications and Marketing: Use your website, social media channels, marketing collateral, advertising and relationships with community members and elected officials to promote your event and engage with your audience throughout the year.

INVITE YOUR COMMUNITY:

Finally, set your guest list. Connect with schools and youth organizations. Contact your Chamber of Commerce. Reach out to elected officials. Send an invitation explaining the event and what guests can expect when you open your doors.

While MFG Day is officially October 6 this year, you'll find many manufacturers host events throughout the month. And of course the ultimate goal is an MFG Day that lasts all year!

For more information and additional resources, please visit: www.MFGDay.com.

“MFG Day 2022 produced more than 620 registered events, 55 million social media impressions and 18 state proclamations.”
MFGDay.com



Providing precision machining and fabrication of plastics and non-ferrous alloys since 1981.

Specializing in:

- Milling
- Turning
- Water Jet Cutting
- Turret Punching
- Busbar Punching and Forming
- Die Cutting
- 3D Printing
- Assembly

toll-free: **800-827-1900** email: mikec@metplas.com

www.metplas.com

27 Years of Membership



3 Acee Drive, Natrona Heights, PA 15065



A HEAT TREATING PARTNER THAT GIVES A **HOT DAMN**

CONTACT US

814-333-1782

11010 MCHENRY STREET, MEADVILLE, PA 16335

sales@petersheattreat.com | petersheattreat.com

WHY CHOOSE US

- Local Pickup & Delivery Service
- Fast Turnaround and Delivery
- ISO 9001:2015 Certified
- Nadcap Accredited for Aerospace
- Turn Key Solution Provider
- Woman-Owned & Operated
- Real Time Job Tracking System
- Our Customers LOVE us

OUR SERVICES

- Age Hardening
- Air Hardening
- Aluminum Alloy Processing
- Annealing
- Black Oxide Coating
- Carbonitriding
- Carburizing
- Cryogenics
- Ferritic Nitrocarburizing (FNC)
- Gas Nitriding
- High-Speed Steel Hardening
- Hot Working Steels
- Induction Hardening
- Laser Heat Treating
- Neutral Hardening
- Normalizing
- Oil Hardening
- Rust Preventative
- Sandblasting
- Selective Hardening
- Shotblasting
- Solution Hardening
- Straightening
- Stress Relieving
- Tempering
- Tool Steel Hardening
- Metallography
- Metallurgical Analysis
- Microhardness Testing
- Vacuum Hardening



WHAT I DID ON MY SUMMER VACATION:

THE CAMPS THEY'LL BE TALKING ABOUT ALL YEAR

This year was filled with exciting changes for BotsIQ's summer camps. For the first time, BotsIQ hosted camps in its own facility which opened in Bellevue in late June. BotsIQ hosted a total of six weeks of camps. Four were held at the new BotsIQ headquarters. All Bellevue location camps featured a manufacturing company tour and a free lunch each day for students.



The month of June kicked off the opening of the new location with a Mini Fab Camp for rising 4th—6th graders. Campers used 3D printing, laser cutting, 3D pens and much more to design and bring board game creations to life. Students chose their game theme and created branding, packaging and instructions for the game. They designed their game boards and game pieces in CAD. Students toured Inventionland in Fox Chapel to spark their creativity and learn more about business and entrepreneurship.

The next camp featured BotsIQ's very own program, RoboRecharge- a Shark Tank-inspired pitch contest where students worked in small groups to choose a real-world problem then conceptualize and design a robotic solution. On top of building a prototype, students also built a business model and refined a pitch presentation for a panel of "sharks" (manufacturing professionals) at the end of the week. These campers, all rising 6th—9th graders, toured Gecko Robotics on National Internship Day to hear about the work achieved by the company's many interns.

BotsIQ's third week of camp featured the very first Girls Exploring Manufacturing Camp. Eleven girls (all rising 7th-9th graders) tackled a different activity each day: soldering digital clocks, designing and 3D printing objects, making molds for chocolate bars, laser cutting mazes and



much more. They even collaborated with high school seniors from the Penn State Readiness Institute to assemble and code a LEGO Cobot Arm to complete BotsIQ's Cobot Challenge. The girls also toured Smith+Nephew where they used a surgical knee

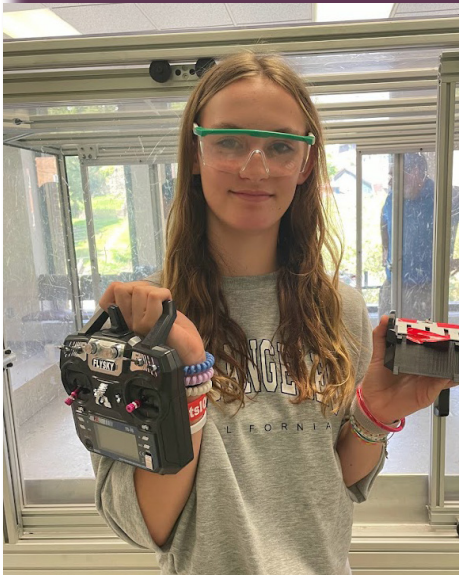
replacement robot, completed a hands-on engineering activity and enjoyed a lunch presentation from two female engineers who were part of the Society of Women Engineers Pittsburgh Chapter.

The final week of Bellevue camps was true to BotsIQ's reputation— a combat robotics camp! 7th—9th grade students spent the week researching, designing and assembling ant weight combat robots. Campers soldered their own power and drive system. Adam Purdy, North Allegheny's BotsIQ Combat Robotics Teacher, led the students through the process. The week concluded with a single elimination combat tournament, and featured a crazy rumble match with nine bots! Students from this camp toured Carnegie Robotics and learned what it takes to pursue a career in the field of robotics.

BotsIQ hosted two off-site camps in Westmoreland County. In early July, eight students attended BotsIQ's Robotics Camp at the Westmoreland Advanced Technology Center where they worked in small groups to prototype their own robotic creations using micro:bits. The camp focused on building confidence in research and



by JoAnna Dehler, STEM Program Manager, BotsIQ



design as well as programming and public speaking skills. The following week, Kiski Upper Elementary School hosted back-to-back half-day camps. In the morning, 5th and 6th grade Kiski students participated in a Fabrication Camp. They were the engineering leads of their own board game creations. In the afternoon, 7th and 8th grade students participated in BotsIQ's RoboRecharge Program.

The conclusion of summer camps marks the end of a season filled with exploration, connections and personal growth for these 78 students across 29 schools. Summer camps are just the beginning of what the BotsIQ staff has in store for their new facility. As we look forward to the fall, BotsIQ aims to host more programming for students, but for now, we celebrate the achievements of these young minds and their deep dive into the rewarding field of manufacturing!

KISKI PRECISION INDUSTRIES

Industry-specific expertise, proven reliability and an unwavering commitment to quality— we're the partner you want for all your industrial service needs.



Precision Machining and Grinding ■ Welding
■ Fabrication ■ Wire and Conventional EDM ■
Assembly ■ Wiring ■ Engineering

kiskiprecision.com

COMPLETE THE WAGE & FRINGE BENEFIT SURVEY

by John Mackay, Mackay Research Group

The cost structure of operating a business has increased in 2023, including wages.

Wages and salaries in the U.S. grew 5.7 percent in the second quarter of 2023 from a year earlier, the fastest pace since 2001. Employers are continuing to increase pay as they try to recruit and retain employees in a tight job market.

What about wages in the precision manufacturing industry? More specifically, what about competitive wages in your backyard (your chapter)?

The NTMA Wage & Fringe Benefits Survey reports job-specific compensation data, thus providing your company the ability to make reliable and impartial financial decisions regarding wages and benefits. The Wage & Fringe Benefit Survey will provide you with the data-driven results to make informed decisions about your workforce.

Participants receive information related to:

- Hourly wages for 34 shop floor job titles
- Benefits including Retirement, Healthcare, Vacation

THIS INFORMATION IS PROVIDED IN TWO EASY-TO-READ FORMATS:

Executive Summary:

The Summary worksheet displays wage rates for low, high and average wages by job title.

Detailed Information:

Easy-to-follow tables showing hourly wage and benefits information for NTMA manufacturer data, all respondents, data by revenue size, data by geographic region, and by your NTMA chapter, if we have an adequate sample size. That is why we need your participation.

Free Report:

NTMA members who submit their data will receive the full Wage & Fringe Benefit Survey Report at no cost.



“The Wage & Fringe Benefit Survey will provide you with the data driven results to make informed decisions about your workforce.”

—John Mackay
Mackay Research Group

Questions? Need a copy of the survey?

Contact Taylor Mackay:

taylor@mackayresearchgroup.com

Participate by November 1.

Confidentiality: Only the Mackay Research Group staff will have access to your Wage & Fringe Benefit information. Every precaution has been taken to protect the complete confidentiality of all information. The NTMA staff will never have access to your information.

FEDERATED INSURANCE
It's Our Business to Protect Yours

Help Your Employees Make it Home Safe Today

Federated DriveSAFESM
Telematics helps your employees improve their daily driving habits and return home safe at the end of the day.



Scan to learn more about DriveSAFE TELEMATICS.



The content of this publication is for general information purposes only. Consult with a qualified professional when you have detailed questions regarding any topic in this publication.



Commercial Insurance | Property & Casualty | Life & Disability Income
Workers Compensation | Business Succession and Estate Planning | Bonding
Federated Mutual Insurance Company and its subsidiaries** | federatedinsurance.com

**View A.M. Best Rating Guide information at www.ambest.com. **Not licensed in all states.

23.01 Ed. 4/23 © 2022 Federated Mutual Insurance Company

wim | women in | manufacturing®

Women in Manufacturing Association® (WiM) is the only national trade association dedicated to providing year-round support to women who have chosen a career in the manufacturing industry.

SUPPORT. PROMOTE. INSPIRE.

ABOUT

The Women in Manufacturing® Association (WiM) works to empower women workers and strengthen the manufacturing sector. As a 501(c)(6) non-profit trade association, WiM is dedicated to supporting, promoting, and inspiring women who have chosen careers in the manufacturing industry.

Our approach is holistic, providing skills development, leadership training, and network building opportunities that help women thrive in the modern manufacturing sector. WiM includes manufacturers of all types and individuals from every job function – from production to the C-Suite. Membership and participation in WiM is available to women and men who are working in manufacturing or in fields that support the industry. At present, we support close to 10,000 individual members and over 175 Corporate member companies.



WIM MEMBERSHIP IS COMPLIMENTARY
FOR NTMA MEMBERS.

FOR MORE INFORMATION:
CARRIE MARSICO AT CMARSICO@NTMA.ORG

CONNECT

- www.womeninmanufacturing.org
- [facebook.com/WomeninMFG](https://www.facebook.com/WomeninMFG)
- [@WomeninMfg](https://twitter.com/WomeninMfg) and [#WomeninMFG](https://twitter.com/WomeninMFG)
- Women in Manufacturing

MEMBERSHIP

WiM members benefit from exclusive access to local and national educational programming, in-person and virtual networking opportunities, bimonthly professional development webinars, a customized job board, and a robust searchable directory. Corporate members receive additional benefits, most notably, the ability to enroll an unlimited number of individuals underneath their membership regardless of location.

LEARN MORE
AND
JOIN WIM
TODAY!



//
I have been a member of WiM for a little over three years. It has been very rewarding and has help me grow both personally and professionally. I think the best part is that we have started our own chapter in my area and brought this great organization and events to more women.

Danielle Schneider, Pridgeon & Clay



WELCOME NEW MEMBERS

ADMIRAL METALS

339.298.0218 • www.admiralmetals.com • 11 Forbes Rd., Woburn, MA

Admiral Metals is an ISO 9001 and AS9100 certified leading distributor of non-ferrous metal products in the Northeastern and Midwestern United States. Founded in 1950 and headquartered in Woburn, Massachusetts, Admiral Metals serves a wide variety of end markets including the semiconductor, automotive, medical, infrastructure, aerospace and industrial markets.

Through its 10 strategically located service center locations, Admiral Metals is able to provide next-day delivery of in-stock items. Admiral Metals' broad offering of approximately 3,000 products includes aluminum, brass, bronze, copper, stainless steel and steel in various forms and shapes, including round, hex, rectangle, sheet, square, plate and tube, among others. Admiral Metals also performs value-added custom cutting and grinding services for its customers.



KEYSTONE CRANE & HOIST Co.

724.746.5080 • www.keystonecrane.com • 396 Morganza Road, Cannonsburg, PA

Keystone Crane & Hoist specializes in electric overhead cranes, runway/monorail structures, workstation cranes, jib cranes and hoists as well as upgrades and retrofits. Established in 1976, Keystone is a third-generation family-owned business.

The company's focus is on building quality cranes and supplying application-based solutions to meet the demands of businesses with high performance, quality construction and superior products. Located in Canonsburg, PA their 18,000 square foot facility was designed for fabrication of cranes up to 125 feet and is in prime position to service the Pittsburgh, tri-state area and more. Keystone Crane & Hoist has worked in a variety of industries including machining, manufacturing, materials processing, heavy equipment, as well as oil and gas.

Keystone Crane & Hoist is grateful for the legacy and reputation that they have built over the past 47 years and looks forward to opportunities with new and existing customers.

GOOD LUCK TO THIS YEAR'S CLASS OF APPRENTICES!

More than 150 apprentices representing 47 local manufacturing companies begin training the week of September 11.

Apprentices complete 144 hours of classroom training and 2000 hours of hands-on application at their job site annually. In four years, they earn the distinction of Journeyman.

QUESTIONS?

If you would like more information about the Pittsburgh Chapter NTMA's Apprentice Training Program, please contact Liz Blashock at: blashock@pghntmf.org



2023—2024 INSTRUCTORS

DON'T LET INVENTORY MANAGEMENT PROBLEMS IMPACT PRODUCTIVITY

KeepStock
A Managed Inventory Solution

There are key products throughout each area in a metalworking operation essential to keeping a facility safe, clean, productive and compliant. Help make sure your customers have these items in the right place, at the right time with KeepStock solutions.

| AREA | PRODUCTS |
|------------------------|--|
| WELDING | <ul style="list-style-type: none"> • Welding Wire, Welding Rods, Welding Consumables • Welding PPE, Welding Fluids • Grinding Wheels, Grinding Discs, Grinding Belts |
| MAINTENANCE | <ul style="list-style-type: none"> • Band Saw Blades, Plasma Cutter Consumables • Abrasive Cutoff Blades, Cutting Torch Consumables • Drills, Reamers, End Mills, Taps, Dies, Indexable Inserts • Welding Wire, Welding Rods, Welding Consumables • Grinding Wheels, Grinding Discs, Grinding Belts, Grinding Fluids/Coolants |
| QUALITY CONTROL | <ul style="list-style-type: none"> • Calipers, Micrometers • Bore Gauges • Precision Measuring Devices • Surface Roughness Testers |
| PRODUCTION | <ul style="list-style-type: none"> • Drills, Reamers, End Mills, Taps, Dies, Indexable Inserts • Welding Wire, Welding Rods, Welding Consumables • Welding PPE, Welding Fluids • Tool Holding, Machining Fluids • Band Saw Blades, Plasma Cutter Consumables • Polishing/Abrasive Wheels, Mounted Stones • High-Speed Steel and Carbide Burrs, Hand Files • Hones, Abrasive Pads |
| FABRICATION | <ul style="list-style-type: none"> • Band Saw Blades, Plasma Cutter Consumables • Grinding Wheels, Grinding Discs, Grinding Belts, Grinding Fluids/Coolants • Welding Wire, Welding Rod, Welding Consumables • Drills, Reamers, End Mills, Taps, Dies, Indexable Inserts • Tool Holding, Cutting and Sawing Consumables • Machining Fluids, Welding Consumables, Polishing/Abrasive Wheels |

WHAT YOU NEED, WHEN AND WHERE YOU NEED IT

Granger KeepStock solutions are subject to customer eligibility and agreements.

©2020 W.W. Grainger, Inc. W-CTGS125

GRAINGER
FOR THE ONES WHO GET IT DONE

Supplies and Solutions for Every Industry®



IT'S NEVER BEEN EASIER TO GET AUTOMATED

Labor shortages, optimizing productivity, and increasing efficiency are just some of the reasons to automate your production. From big to small, every shop should be investing in automation. It's easier (and more affordable) than you think.



AWR
AUTOMATION WITHIN REACH

WWW.AUTOMATIONWITHINREACH.COM



WHICH AUTOMATION SYSTEM IS RIGHT FOR YOU?

Haas Factory Outlet Pittsburgh offers many different options for automating your shop, from automatic part loaders and pallet pools, to fully integrated robot systems. Depending on your shop's needs, there's an automation system that's right for you.



Haas Factory Outlet - Pittsburgh
549-A Keystone Drive
Warrendale, PA 15086

800-358-6959
WWW.HAASFACTORYOUTLET.COM



PITTSBURGH

CHAPTER

100 S. JACKSON AVENUE, 2ND FLOOR
PITTSBURGH, PA 15202
PHONE: 412.212.6868

E-MAIL: OFFICE@PGHNTMA.ORG

PRST STD
U.S. POSTAGE
PAID
PERMIT NO. 130
GREENSBURG, PA

REGISTRATION IS NOW OPEN! RESERVE YOUR PLACE TODAY.

Engage includes three days packed with networking, advocacy and learning. Enjoy nationally acclaimed speakers, round table discussions, social events and breakout sessions designed to educate and inspire. Join us as we build on NTMA's long legacy of providing precision manufacturers and industry leaders with the invaluable experience of gathering together to network, learn and advocate for the advancement and future of the industry.

FOR MORE INFORMATION &
REGISTRATION:

[WWW.NTMA.ORG/
ENGAGE2023](http://WWW.NTMA.ORG/ENGAGE2023)

OCTOBER 18-21 | INDIANAPOLIS, INDIANA

THE PRECISION MANUFACTURING CONFERENCE

ENGAGE
2023 POWERED BY 

REGISTER NOW!

PGH NTMA CALENDAR:

- 09/11 23/24 Apprentice Training Begins
- 10/06 MFG Day
- 10/18 NTMA Engage 2023
- 11/02 PGH NTMA/NTMF Board Meeting

For times, locations and details, please visit:

[www.PGHNTMA.org](http://WWW.PGHNTMA.ORG)