EXPLORING MANUFACTURING MONTH.

September 26, 2023









Aly Grady

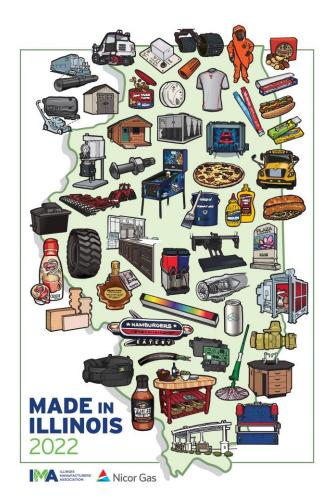
Deputy Director

Department of
Commerce and Economic
Opportunity's Regional
Economic Development
Team



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BOLDLY MOVING MAKERS FORWARD





BENEFITS OF THE IMA

PRESIDENT / CEO / OWNER

- · Network with statewide peers
- · Access to daily manufacturing news
- · Connect to State Legislators
- · Up to date regulatory information
- Annual Luncheon

GOVERNMENT AFFAIRS & REGULATORY COMPLIANCE

- Strong voice on all issues impacting manufacturers
- Influential voice of manufacturing in Illinois
- · Strongest business advocate at the Capitol
- Direct access to lawmakers and regulatory officials



HR & WORKFORCE DEVELOPMENT

- · Access to training grants
- Healthcare Advisory Board
- Free employee handbook review
- ICATT Apprenticeship program

· Annual statewide salary survey

FACILITIES MANAGEMENT

- · Energy cost reduction through Constellation Energy
- · Sustainability resources
- Resources to maximize shop floor design

Access to EH&S experts • Free OSHA 10 hour class

- Regulatory updates through environmental group

ENVIRONMENTAL HEALTH & SAFETY

MARKETING & SALES

- · Nationwide Manufacturers Marketplace
- Publishing opportunities weekly and quarterly
- Advertising Opportunities through publications and website
- · Annual IMA Sponsorships



SUPPLY CHAIN & PROCUREMENT

- · Discounts on uniforms, energy, shipping, environmental services
- Access to the nationwide Manufacturing Marketplace

FINANCE & ACCOUNTING

- Annual Tax Conference
- · Network with statewide peers
- · Tax updates through blogs and programs

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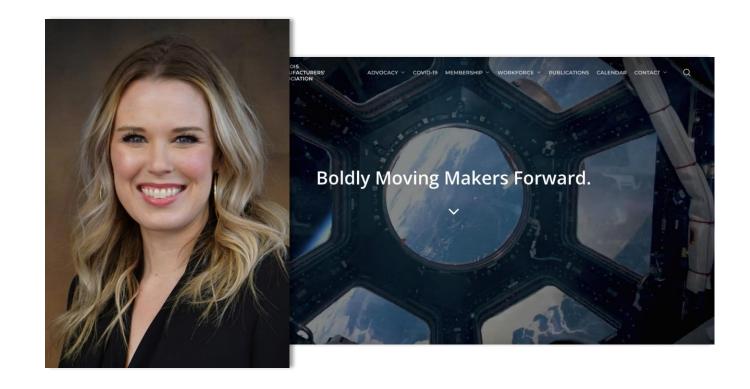
· Access to grants when available

- MANUFACTURING & OPERATIONS
- · Access to resources to advance processing
- · Share best practices with statewide peers

For more information about the Illinois Manufacturers' Association, please call (800) 875-4462 or email the IMA at ima@ima-net.org.

BOLDLY MOVING MAKERS FORWARD

INTRODUCTION: IMA'S SARAH HARTWICK



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IMEC is your trusted partner.



Each year, IMEC collaborates with more than 1500 Illinois manufacturers to fine tune plans, implement business-building initiatives, and excel among competitors. With a demonstrated return that exceeds 19:1, we provide educational insights to hundreds more through events and workshops.

Our mission and sole measure of success is the **impact we make for you**. Work with IMEC to identify and achieve your goals.











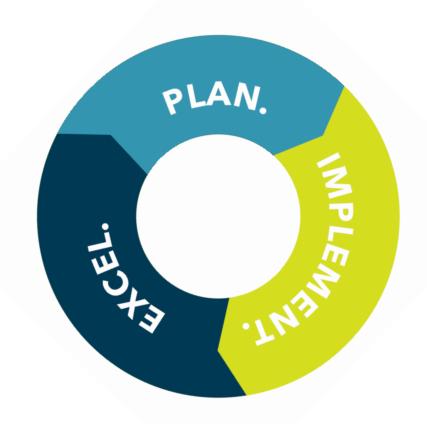






IMEC can support you with:

- Dedicated experts
- Customized training
- On-site or virtual implementation
- Audits and assessments
- Industry-leading content and insights
- Multi-company training and events
- And much more!





2022 Client-Reported **Impacts**



4,471

Jobs Created and Retained

Return on Investment



1867

Companies Assisted

\$1,357,032

Average New and Retained Sales per client

\$73,969

Average Cost Savings

per client

\$480,633,397



Aggregate Impact to the Illinois Economy



A Competitive Edge Through a **Digital Makeover**

Sangamon Reclaimed

Springfield, IL 9 employees | sangamonreclaimed.com

Sangamon Reclaimed changed ownership during the COVID-19 pandemic to a new entrepreneur, Amanda Compton. New to entrepreneurship and manufacturing, Amanda acquired a great local business, but her vision was to expand nationally. This requires an active and engaging ecommerce presence.

Amanda's timing in reaching out to the IMEC team was perfect, as IMEC had just launched its Grow Your Future program. This program provided small and mid-sized Illinois manufacturers with fully-funded projects designed to drive revenues and growth within their business.

IMEC partnered with B2Btail to complete the digital makeover. The new website and ecommerce platform puts Sangamon Reclaimed closer to their goal to scale nationally and its ease of maintenance gives them a competitive edge for marketing and Search Engine Optimization.

- · Anticipated new and retained sales: \$11,000
- Anticipated cost savings: \$8.000
- New and retained jobs: 5

Streamlining Processes and **Improving Efficiency**

Bonnell Industries, Inc.

Dixon, IL 92 employees | bonnell.com

Bonnell Industries has been a family owned, industry leader in the truck equipment industry in Northern Illinois for decades but struggled to embrace the concept of Lean Manufacturing

IMEC technical experts introduced the basic concepts of Lean Manufacturing to the team, demonstrating tools and techniques and how to effectively implement them in their operations and processes.

As they learned the basic concepts and participated in the simulation, they were able to see first-hand the benefits of embracing lean and how they could transfer what they were learning to their roles at Bonnell, streamlining their processes, and improving productivity and efficiency.

- · Anticipated new and retained sales: \$3,000,000
- Anticipated cost savings: \$2,200,000
- Anticipated new investment: \$60,000
- Jobs created or retained: 8

Improved Productivity and Reduced Waste With Improved Satisfaction

Aztec Plastic Company

Chicago, IL 14 employees | aztecplastic.com

In an effort to set and maintain new standards that would eliminate wasted time, space, and inventory, and create an environment where employees can participate in continuous improvement activities, Aztec Plastic Company engaged Lean experts at IMEC.

After understanding what Aztec Plastic wanted to accomplish and assessing their workspace, IMEC conducted a Focused 5S Workplace Organization training and Kaizen that was conducted over 2.5 days with 6-10 Aztec Plastic team

With all the tools and tooling components readily available, employees are now able to complete their jobs more efficiently. As a result, Aztec Plastic Company is noticing improved productivity and reduced waste, while also seeing an increase in employee satisfaction!

- · Anticipated new and retained sales: \$1,100,000
- Anticipated cost savings: \$165,000
- Anticipated new investments: \$70,000
- . New and retained jobs: 15

Training and Processes Built for Employee Retention

Mennie Machine Company

Mark, IL 250 employees mennies.com

Mennie Machine Company specializes in low to high volume contract machining and manufacturing. Finding new employees and retaining their current team is a huge focus for their organization.

Partnering with IMEC, they put together a program for coaching leadership for increased employee engagement as well as updating and revamping their new hire orientation process. The program continued to include a communication focus that equipped the organization to facilitate ongoing news, updates and collaboration through monthly newsletters and all team meetings. Seeing the impact these programs have had on company culture and engagement, Mennie Machine continues to build on the foundations that were a result of these projects.

- Anticipated new and retained sales: \$30,000,000
- Anticipated new investment: \$476,000
- Jobs created or retained: 250









EXPLORING MANUFACTURING MONTH.

September 26, 2023





What is Manufacturing Day / Month?

- Celebrated in October
- Started in 2012
- Federal / State / Local agencies celebrate success of U.S. manufacturers
 - Events
 - Information
 - Promotions

Governor Chris Cristie of New Jersey proclaimed the first official Manufacturing Day in 2012. President Barack Obama signed the Presidential Proclamation in 2014

Awareness & Promotion:



Highlights manufacturing's economic importance.



Showcases diverse career opportunities.



Attracts individuals to manufacturing careers.









MANUFACTURING







Education and Training:





Provides insights into required skills and training.

Clarifies career pathways in manufacturing.





BEST PRACTICES

Employee Recognition Program



Recognize employees in real time for maximum impact

Real time recognition shows you are consciously paying attention to efforts and acknowledging contributions.



Run regular, fun campaigns to encourage participation

Organizations should think of fun ways to incorporate the company's style and design in their recognition campaigns.



Make recognition frequent

Frequent recognition builds a strong culture of appreciation and increases the use of the platform.



Tie recognition to specific behaviors

Whether they are large or small, tying recognition to specific actions reinforces desirable behavior.





Community Engagement:

Fosters local pride and support for manufacturers.

Strengthens community ties to the industry.





Collaboration:





ENCOURAGES PARTNERSHIPS BETWEEN INDUSTRY AND EDUCATION.

ALIGNS TRAINING WITH INDUSTRY NEEDS.











Addressing the Skills Gap:



Helps bridge shortages in skilled manufacturing workers.



Strengthens the overall workforce.





The skills gap is widening

Over the next decade nearly 3 1/2 million manufacturing jobs will likely be needed and

2 Million 2015 are expected to go unfilled due to the skill gap

2025

The implications are significant

Every job in manufacturing creates another 2.5 new jobs

in local goods and services.

For every \$1 invested in manufacturing, another \$1.37 in additional value is created in other sectors.

2.7 Million baby boomer retirements

700K manufacturing jobs expected from economic expansion

manufacturing jobs are likely to be needed over the next decade

Only 1.4 Million jobs are likely to be filled

leading to an expected

2 Million

manufacturing jobs unfilled due to the skills gap



By 2025 the skills gap is expected to grow to

In 2011, 600K jobs were unfilled due to the skills gap

Economic Growth:





Contributes to job creation and innovation.

Supports long-term economic prosperity.





Innovation and Technology:



Showcases advanced technologies in manufacturing.



Appeals to techsavvy individuals.



SMARTFORCE MANUFACTURING TECHNOLOGY CAREERS

As we move further into the digital age, existing roles and duties have evolved and new roles and duties have developed to aid in the implementation of the more complex machines and powerful system/software tools. These are some of the integral roles and duties of the manufacturing smartforce.

PROGRAMMER PROGRAMMER

CAM programmers set up, program, and adjust CNC manufacturing software to produce the optimal output.



OPERATOR

The essential role of a CNC operator is to operate the computer numerical controlled (CNC) machines, e.g. a miling machine, lathe, grinder, etc., and often work alongside an integrated robot to



ROBOTICS

Robotics technicians install, service, maintain, troubleshoot, and repair robots and automated production systems.



MANUFACTURING ENGINEER

Manufacturing engineers design and manage the manufacturing systems of production that turn row materials into discrete part production.



CYBERSECURITY

Cybersecurity technicians network traffic, record computer forensics, conduct data preservation, and investigate for network breaches and/or unauthorized data access.





QUALITY CONTROL ENGINEER/TECHNICIAN

GC engineers and technicians oversee the manufacturing of products and are involved in every stage of making a product, from development to final packaging, to ensure quality.



FIELD SERVICE TECHNICIANS/ENGINEERS AND INDUSTRIAL MAINTENANCE TECHNICIANS

Field service technicians and orgineers install, maintain, and repair the mischanical and electronic functions of manufacturing technology equipment and fools often, they travel from sile to site for preventative maintenance and to solve problems that may arise.



ADDITIVE MANUFACTURING MACHINE OPERATOR

Additive manufacturing machine operators independently set up additive manufacturing machines, monitor the build process as assigned by AM designers and AM materials technicians, and unload completed work.



SMART SYSTEMS INTEGRATION TECHNICIAN

SSTs integrate equipment with connectivity technologies to monitor and adopt system behavior, program devices and data visualization tools, document system designs, and werly that networked equipment systems meet virtual and physical requirements.

TODAY







Sustainability and Diversity:





Promotes eco-friendly practices in manufacturing.

Encourages diversity and inclusivity in the workforce.



ENVIRONMENT



14 LIFE BELOW WATER











SOCIAL



8 BECENT WORK AND ECONOMIC GROWTH





6 CLEAN WATER AND SANETATION





GOVERNANCE

















But Where Can I Start?



Makers on the Move October 6-13



Join Us on the Tour!

October 6:

- Boeing (Mascoutah)
- Southern Illinois University (Carbondale)
- 17th Street BBQ (Murphysboro)

October 7:

Eastern Illinois University (Charleston)

October 9:

- Mel-O-Cream (Springfield)
- Nestle (Jacksonville)
- Peoria Production Solutions (Peoria)
- Rust Belt (East Moline)

October 10:

- Parr Instrument Company (Moline)
- Woodstock Courthouse (Woodstock)
- AFC Materials Group (Lake in the Hills)
- Sew Hop'd Brewery (Huntley)

October 11:

- PCI Pharma Services (Rockford)
- Termax (Deer Park)
- Freudenberg Household Products (Aurora)

October 12:

- Centerpoint Intermodal (Joliet)
- Lion Electric (Channohan)
- Demgy (Elk Grove Village)
- Home Run Inn (Chicago)

October 13:

- UESCO (Alsip)
- National Safety Apparel (Chicago)











- <u>Webinars</u>
- Marketing Toolkit
- Action Partner Toolkit
- Government Official Toolkit
- <u>Merchandise</u>



Tell Us Why You Chose a Career in Manufacturing

Please take a moment and let us know how a career in manufacturing has impacted you. Help inspire a new generation of workforce to take advantage of the opportunities available in manufacturing!

First name*	Last na	ime"	
Kristy	Joh	Johns	
Job Role*	Company name*	City*	
		Peoria	
Email*			
kjohns@imec.	org		
Why manufacturing? In 1-2 sontences, presse	share why you choos a tureer in manu-	tucumg //	
☐ I give permission	to use my quote to inspire the fut	ure manufacturing workforce.*	
Submit			

Share Your Teams Stories

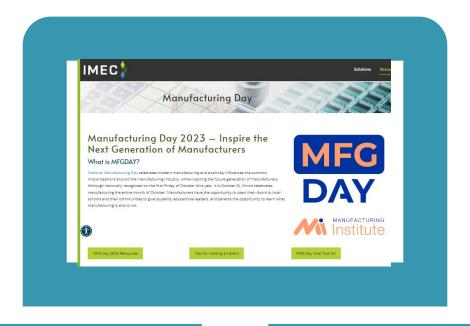
- Post Quotes on Social Media
- Take Pictures and Tag Partners
- Plan an Open House for your Team
- Ask Local Schools to go Present to Future Makers





Tips for Hosting an Event

- 5-part webinar series
 - Getting Started
 - Planning Your Event
 - Sponsorship Opportunities
 - Making the Most of Your Event
 - Getting the Word Out



https://www.imec.org/resources/manufacturing-day/

Manufacturing Day Tool Kit



-Join thousands of other hosts in showcasing modern manufacturing careers and technologies -Highlight the benefits manufacturing offers your community and nation



Download this toolkit for ideas and tips to help you:

-Determine your event type

-Connect with local partners

-Register your event

-Create a plan

-Invite your community

-Get the word out

Focus on Workforce

Webinar Series

мон **2** October 2 @ 11:30 am - 12:30 pm

ELEVATE YOUR WORKFORCE: Create Onboarding Excellence From Day One

TUE

October 17 @ 11:30 am - 12:30 pm

17

ELEVATE YOUR WORKFORCE: Incorporating DEI Into Your Retention Strategies

TUE

October 24 @ 11:30 am - 12:30 pm

24

ELEVATE YOUR WORKFORCE: Integrating Learning and Development Into Organizational DNA

There are many ways to show support for MFG Day! Whether it's hosting an event, attending an event, or promoting MFG Day through your social media channels, stay involved and help us showcase the best that the manufacturing industry has to offer.

MFG Day Event Formats



Plant Tours



Community Events & Expos



Educational Fairs



Classroom Vists



Company Family Day



Celebrations

How to Get Involved

1

Host an Event

2

Attend an Event

3

Invite Your Community

4

Spread the Word

