

FEBRUARY 2025

Today's Topic:

[Midwest Microelectronics Consortium](#) (MMEC):
Aligning Workforce Development Efforts to the
Nation's Defense Industrial Base

Presenters:

Jessica Falcon, EdD
Director of Workforce Development
Midwest Microelectronics Consortium (MMEC)

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Date: February 18, 2025



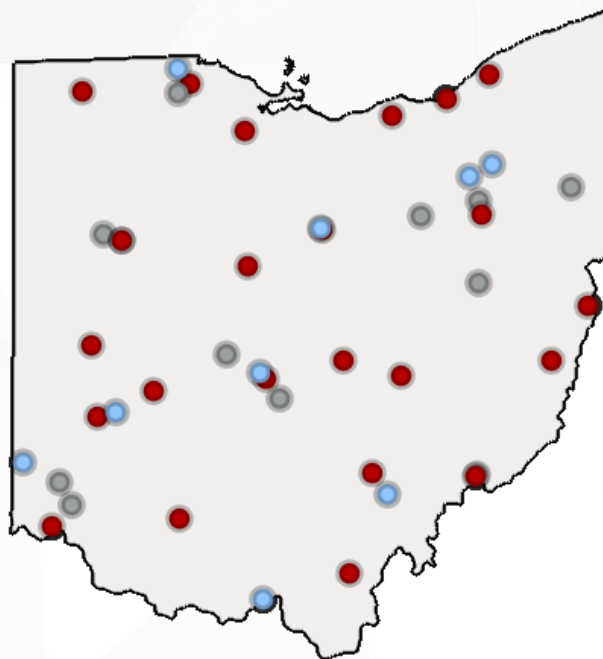
REMINDER:

Based on a request from our IT Department, Ohio TechNet will be not allowing the use of AI Meeting Assistants in our meetings



OhioTechNet

Partners in Training Ohio's Manufacturing Workforce



OTN Members:

- Community College
- Career Technical Center
- University

Vision

The members of the Ohio Technical Skills Innovation Network, or Ohio TechNet, are nationally recognized for partnering with industry to implement collaborative, innovative solutions that meet manufacturing and tech workforce needs.

Mission

Ohio TechNet supports workforce development and academic professionals to incubate, develop and sustain programming that accelerates the growth of Ohio's manufacturing & technical workforce.

Purpose

Ohio TechNet partners benefit from peer-to-peer collaboration, technical assistance and access to resources, making program expansion and innovation at their institution more efficient, faster to implement and easier to sustain.

Strategic Focus Areas

Ohio TechNet's strategic focus areas provide partners with best practices, models, and technical assistance to address the critical workforce needs in the state



Guided Pathways for Youth

Reaching New Audiences

Innovative Earn and Learn

Faculty and Educator Development

Partnering with Industry



Ways to Engage

Monthly Newsletter

Subscribe to our monthly newsletter to stay informed about peer-to-peer collaboration opportunities, technical assistance, innovative solutions, and upcoming trainings.

General Consortium Meetings


Virtual meetings are held on the 3rd Tuesday of every month at 8:30 AM (EST). These meetings are designed to support workforce development and academic professionals to incubate, develop, and sustain programming that accelerates the growth of Ohio's manufacturing & technical workforce.


2025 Meeting Schedule:

Jan: Reaching New Audiences
Feb: Partnering with Industry
Mar: Innovative Earn and Learn
Apr: Faculty Development
May: K-12 Engagement
June: Reaching New Audiences

July: Partnering with Industry
Aug: No Meeting
Sep: Innovative Earn and Learn
Oct: Faculty Development
Nov: K-12 Engagement
Dec: Celebrating 2025

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Contact us to subscribe to the newsletter and be added to the monthly meetings!



MORNING ICEBREAKER



What was the coldest day
recorded in Ohio?

39 degrees below zero
on February 10, 1899 in Milligan,
Ohio (“Ohio’s Icebox”).

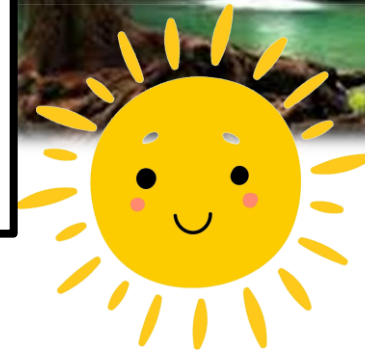


A little hope and warmth to look forward to!

What is the hottest March
temperature recorded in
Cleveland, Ohio?



Rank	Temperature	Date
1	83 °F	March 22, 2012
1	83 °F	March 21, 2012
1	83 °F	March 20, 2012
1	83 °F	March 25, 1945
1	83 °F	March 22, 1938
1	83 °F	March 24, 1910
7	82 °F	March 30, 1986
8	81 °F	March 23, 2012
8	81 °F	March 30, 1998
8	81 °F	March 5, 1983



Wishing Sylvia Rios continued success as she embarks on her next adventure!

Thank you for your dedication in managing grants, providing guidance and support, creating valuable collaborations, and making a lasting impact on students—your contributions have truly shaped the Ohio TechNet team.



CHECK YOUR EMAILS!

INNOVATING, INVESTING, LEADING FOR THE DEFENSE INDUSTRIAL BASE

10 years of Ohio Technical Skills Innovation Network (Ohio TechNet) and
NextFlex, America's Hybrid Electronics Manufacturing Innovation Institute

Wednesday, April 30, 2025 | 9:30 a.m. – 2:00 p.m.
Lorain County Community College, Spitzer Conference Center

OhioTechNet

NEXTFLEX



REGISTER TODAY!

KEYNOTE SPEAKER

Brynt Parmeter, Chief Talent Management Officer
U.S. Department of Defense

Hear from the U.S. Department of Defense's top talent strategist as he shares insights on workforce innovation, talent development, and strategies for building a strong manufacturing and defense workforce.



TODAY'S STRATEGIC FOCUS AREA :

PARTNERING WITH INDUSTRY

Industry-educator collaboration is essential to meet the evolving demands of modern manufacturing. Ohio TechNet serves as a trusted "front door" for those seeking to pilot and have a ready infrastructure to scale what works.

Partnerships with the ARM Institute, NextFlex, CESMII, and other Institutes within the Manufacturing USA network; the Ohio Manufacturers' Association, Midwest Microelectronics Consortium, the Ohio MEP, National Defense Education Program, SEMI Foundation, Intel, regional economic development leaders, industry-sector partnerships, and industry leaders directly informs our work to help bring capacity, resources and best practices to OTN education members as they expand the pipeline of highly skilled manufacturing and tech talent.





Workforce Development: Initiatives and Strategy

Dr. Jessica Falcon

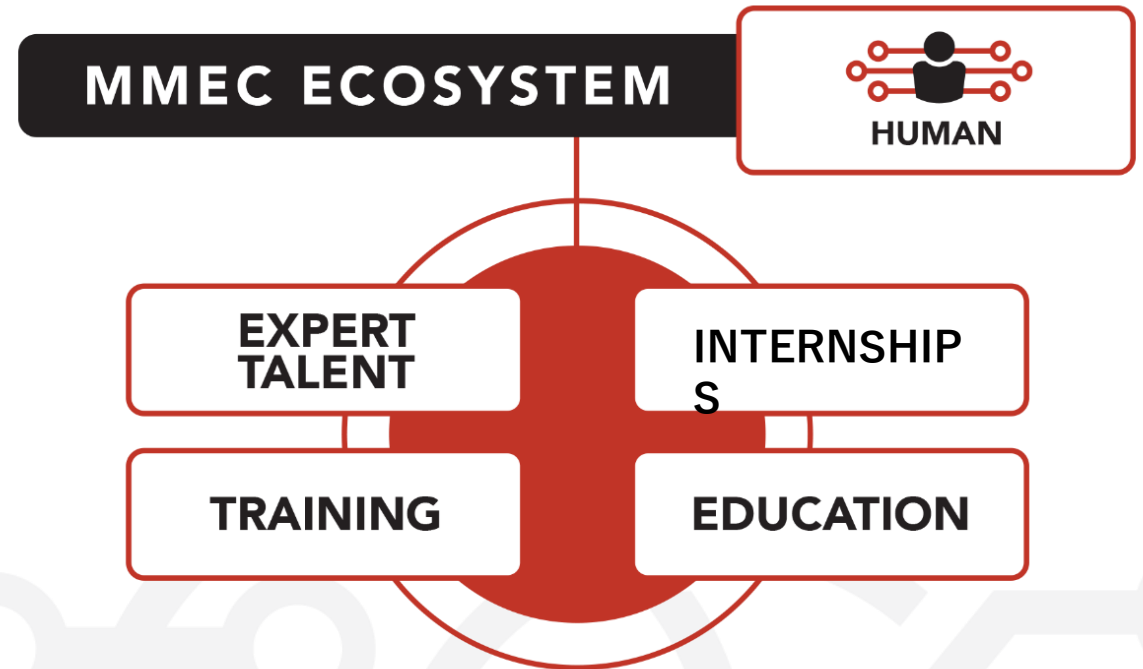
MMEC: Strategy

Midwest Microelectronic Initiatives aim to drive innovation and expand the semiconductor talent pipeline by leveraging the region's rich industrial heritage, robust academic institutions, and collaborative ecosystem. By fostering strategic partnerships between universities, industry leaders, and government entities, we accelerate research, development, and workforce training to meet the growing demand for advanced semiconductor technology

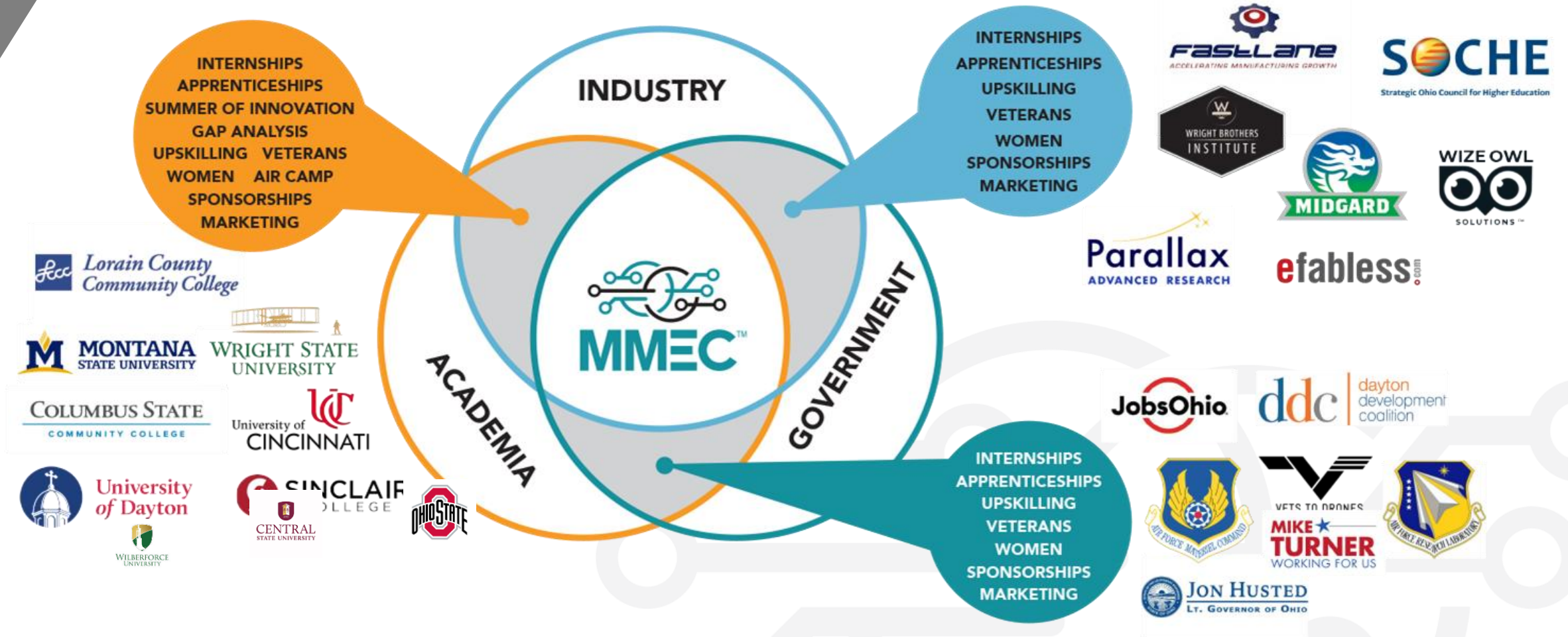
- **Initiatives:** *The Workforce Development framework supports partners with an emphasis on creating economic prosperity for academia, industry, and government partners to improve the growth of awareness, sustainment, and retention for semi-conductors and microelectronics*
 - **Strategy Alignment**
 - **Hub Model Enablement**
 - **Value**
 - **Outlook**

MMEC: WHERE WE ARE GOING

- Provide robust expert talent to support member engagement, project execution, and ensure ecosystem scalability and sustainability - technical, legal, business
- Build a multi-disciplinary STEM workforce development path in K-12, Community Colleges, Universities, and Technical Educational Training Centers.
- Lower on-boarding costs and development times for MMEC member organizations to have increased access to a highly-trained and skilled workforce.



BUILDING A MICROELECTRONICS WORKFORCE



STRATEGIC INITIATIVE

INPUTS

Cultivate a robust pipeline of future innovators by launching initiatives that actively engage with the K-12 network. Focus on hands-on STEM experiences, mentorship programs, and partnerships with schools and industry to inspire young minds, foster creativity, and build a foundation for the next generation of problem-solvers in microelectronics.

Strengthen workforce development by launching initiatives that actively engage with community colleges. Focus on building partnerships, developing tailored training programs, and providing access to cutting-edge technologies to equip students with the skills needed to excel in microelectronics. Empower local talent to bridge the gap between education and industry demands.

Drive innovation and knowledge transfer by fostering initiatives that actively engage with university partners. Focus on collaborative research projects, talent development programs, and technology commercialization opportunities to accelerate advancements in microelectronics. Leverage academic expertise to address industry challenges and fuel economic growth.

Propel workforce development by initiating programs aligned with industry partner proposals. Prioritize skill-building initiatives, tailored training pathways, and certification programs designed to meet specific industry needs. Strengthen collaboration with partners to ensure a steady pipeline of qualified talent equipped to drive innovation and meet evolving market demands.

Champion workforce reintegration and community impact by driving initiatives that engage and support Veterans. Focus on tailored training programs, mentorship opportunities, and partnerships with Veteran organizations to leverage their skills and experience in microelectronics. Empower Veterans to transition successfully into high-demand careers while enriching the workforce with their unique perspectives and dedication.

PROJECTS / INITIATIVES

K-12

COMMUNITY COLLEGES

UNIVERSITIES

PROJECTS

VETERANS

OUTPUTS

- EXPERIENTIAL LEARNING HANDS ON
- STUDENT ENGAGEMENT
- STEM CAMPS
- CLASS INTEGRATION
- CLASS ACTIVITIES
- TEACHING TOOLS
- CURRICULUM

- SHARED CURRICULUM
- MICRO-KITS
- TRAIN THE TRAINER
- COMPETENCY ALIGNMENT
- INTERNSHIPS/JOB PLACEMENT
- FYO JOB SEEKERS / PLACEMENT

- UNIVERSITY ENGAGEMENT
- SUPPORT & TRAINING
- COMPETENCY ALIGNMENT
- INTERNSHIPS/JOB PLACEMENT
- FYO JOB SEEKERS / PLACEMENT

- INTERNSHIPS
- APPRENTICE PROGRAMS
- EXPERIENTIAL PROGRAMS
- RESEARCH OPPS
- SCALED PROGRAMS

- SKILL BRIDGE
- SUPPORT/TRAINING
- K-12 AWARENESS
- EDUCATION SUPPORT
- CURRICULUM
- FYO JOB SEEKERS / PLACEMENT

Thank you!

Questions?



March OTN Meeting
March 18, 2025 at 8:30am

Strategic Focus Area:
Innovative Earn and Learn



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