

Leaders - AMp-ITT-up Ohio!

Unleashing the Potential of Advanced Manufacturing, IT, and Telecommunications

Executive Summary

Leaders -AMp-ITT-up Ohio! (Advanced Manufacturing, Information Technology, and Telecommunications) is an endeavor of strategic collaboration with leaders from across the state. This professional learning series is a comprehensive program on how to impact, support, and create frameworks as well as equitable and accessible on-ramps for college and career pathways in **advanced manufacturing** (e.g., chip production), **information technology** (e.g., cloud infrastructure), and **telecommunications** (e.g., 5G broadband).

These pathways stand as Ohio's emerging economic drivers, and it is essential for education leaders to grasp the opportunities, challenges, and forecasted workforce needs in this sector. Each team will act as a working group that will help develop, implement, monitor, and assess the success of demonstration projects.

Summary of Opportunity

Each region is being charged with creating a workgroup of educators that can directly impact the workforce development pathways of advanced manufacturing, information technology, and telecommunications — sectors primed to drive Ohio's economy. Each region's working group will be actively engaged in hands-on demonstration projects with a keen focus on practical application, implementation, monitoring, assessing, and refining the chosen strategies, ensuring that our collective blueprint for the future is not just visionary but practical and effective.

Members will be responsible for the implementation, monitoring, assessment, and iterative design of these demonstration projects, providing crucial insights into their feasibility and impact. This cyclical process of assessment and refinement allows us to continually innovate and adjust to the ever-evolving landscape of workforce development and career pathways.



What to Expect:

- **Expert Guidance:** Facilitated by experienced educators and industry professionals with a wealth of knowledge in inclusivity and high-demand fields.
- **Collaborative Learning:** Engage with like-minded educator leaders, sharing experiences and learning from one another.
- **Real-World Application:** Develop actionable plans to apply inclusive practices and career connections in Advanced Manufacturing, Information Technology, and Telecommunications.

Session Topics:

- Introduction to Inclusive Learning Environments and Ohio's High-Need Areas
- Workforce resource alignment and asset mapping for your region
- Principles and Strategies for Creating Inclusive Learning Environments
- Connecting Education to Advanced Manufacturing: Building a Skilled Workforce
- Information Technology: Bridging the Gap between Education and Industry
- Telecommunications: Empowering Students for Future Opportunities
- Implementing Inclusive Learning and Career Connections: Action Planning and Next Steps



Objectives:

Objectives for AMP-ITT-up Ohio! Professional Learning Series

1. Collaboration & Engagement:

- Foster strategic collaboration among educational leaders from various regions of Ohio.
- Facilitate host opportunities for participants, ensuring each region gets the opportunity to lead and share best practices.

2. College and Career Pathways:

- Emphasize the creation of equitable and accessible pathways for students into advanced manufacturing, information technology, and telecommunications sectors.
- Provide insights into the relevance and potential of careers in fields like chip production, cloud computing, and 5G broadband.

3. Partnership with Industry Leaders:

- Engage industry partners, for advanced manufacturing for information technology and others for telecommunications.
- Derive best practices and strategies from these industry leaders, offering participants a real-world perspective on the needs and expectations of these sectors

4. Economic Alignment & Workforce Development:

- Align educational objectives with Ohio's emerging economic drivers, focusing on sectors pivotal for the state's future growth.
- Emphasize the importance of understanding forecasted workforce needs and tailor educational strategies to meet these needs.
- Promote awareness among leaders about the challenges and opportunities within these rapidly evolving sectors.

5. Inclusive Learning:

- Introduce and implement strategies for creating inclusive learning environments, ensuring every student feels represented, valued, and empowered in their STEM journey.

6. Community Impact:

- Delve into the role of education leaders in driving collective impact for workforce development in their respective communities.
- Explore ways to leverage education as a tool to meet local workforce demands, boost economic growth, and ensure community prosperity.



What are we asking participants to commit to?

- *Becoming a PAST Fellow for the 2023-2025 school years, leading the conversation and facilitating the growth and expansion of these pathways in their districts.*
- *Attend all sessions that will be hosted across the state*
- *Meeting dates for 2023-2024 are as follows:*
 - *Oct. 25 - PAST Foundation Innovation Lab*
 - *Nov. 7 - AWS - IT Immersion Day at Tolles Career & Technical Center*
 - *Jan, 17 - Location TBD*
 - *March 20 - Location TBD*
 - *May 29 - Location TBD*
 - *June 19 - Location TBD*



FAQ for Leaders - AMp-ITT-up Ohio! Professional Learning Series

Q1: What is the main aim of the Leaders - AMp-ITT-up Ohio! series?

A: The series is a strategic collaboration aimed at offering a comprehensive program for educational service centers, district-level leaders, and building-level leaders. It equips them with knowledge and strategies to impact, support, and create frameworks for STEM identity formation in their districts and buildings. The working group will collaborate with the teams from the other regions to implement/pilot demonstration projects with the goal of assessing the impact and further developing plans for larger-scale implementation and support.

Q2: Who should attend this professional learning series?

A: Educational service centers will act as the point of contact and will be tasked with connecting a team of four additional members that can represent district-level leaders, building-level leaders, and/or teachers from their region who aim to advance workforce development and career pathways in advanced manufacturing, information technology, and telecommunications.

Q3: How will this series benefit our district or building?

A: This series will provide educational leaders with tools and strategies to ensure equitable and accessible opportunities for students in the emerging economic sectors of advanced manufacturing, information technology, and telecommunications.

Q4: Can you explain more about STEM identity formation?

A: STEM identity formation is the process of developing a strong association and self-concept in STEM fields. When students see themselves as "STEM people," they are more likely to pursue and persist in STEM careers. This series offers insights on how to



foster this identity amongst students, making STEM fields more approachable and relatable.

Q5: What topics will be covered in the modules?

- Module 1: Creating Inclusive Learning Environments
- Module 2: Pathway Focus - Information Technology (e.g., cloud infrastructure)
- Module 3: Pathway Focus - Advanced Manufacturing (e.g., chip production)
- Module 4: Pathway Focus - Telecommunications (e.g., 5G broadband)
- Module 5: Collective Impact for Workforce in Your Community

Q6: Why the emphasis on advanced manufacturing, IT, and telecommunications?

A: These sectors stand as Ohio's emerging economic drivers. With rapid advancements in areas like chip production, cloud computing, and 5G broadband, there's a forecasted surge in workforce needs. Understanding these domains will position education leaders to better prepare students for future opportunities and challenges.

Q7: How does this series align with the state's economic objectives?

A: The series aligns by emphasizing sectors that are pivotal to Ohio's economic growth. By preparing educational leaders to pave pathways in these fields, we're directly influencing the state's economic objectives by ensuring a skilled, knowledgeable future workforce.

Q8: Will there be opportunities for networking and collaboration?

A: Absolutely! Leaders - AMp-ITT-up Ohio! is an endeavor of strategic collaboration. Attendees will have ample opportunities to interact, share ideas, and collaborate with other leaders from across the state.



Q9: How can we register?

A: Register your team of five (one lead representing the lead agency and four others representing your district or building that have a role that impacts the development of the AMP-ITT-up workforce development.

Register here - <https://www.pastfoundation.org/amp-itt-ohio>

Q10: Is there any cost associated with attending this professional learning series?

A: Participating cohorts will receive a grant that covers the following:

- Three credits hours from Ashland University or \$800 stipend per participant (5 participants in total for each team)
- A \$2500 stipend for supplies and lunch when hosting the Leaders - AMP-ITT-up Ohio cohort
- Participants will need to provide in-kind services, including - space and planning time for their team.