# Reconnecting Education and Industry

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### **Welcome and Introductions**

#### **Tim Robertson**





Director of Operations, Advanced Manufacturing- IALR

#### **Jeremiah Williams**





Director, Integrated Machining Technology - DCC

## **Agenda**

- Call to Action
- Defining Industry Engagement
- The Value of Engagement
- Q&A

## **Call to Action**

## A brief history

Danville, VA



"An industrialist and a seventeen year old can look through the windows of your training facility and know if there is a future for them inside." -Thomas Loehr

#### **Laser Focus**

- Our region committed to changing the economic landscape of the community through advanced manufacturing workforce development
- Investments of \$100M+ over a 7 year period
- Industry relevant training labs
- Areas of engagement including machining, welding, robotics, IT/cyber, manufacturing engineer, etc.
- Pipeline of thousands of students in advanced manufacturing



## Defining Industry Engagement

## **Defining Industry Engagement**

Multiple lines of effort

#### **Traditional Engagement**



- Advisory Committees
- Curriculum Guidance
- Providing Materials and Resources

#### Strategic Engagement

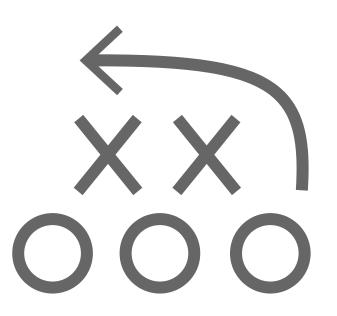


- Political Support
- Support on grants and contracts
- Establishes broad base network

## **Traditional Engagement**

Provides the playbook

- Gives valuable insight and guidance for establishing or improving your training program
- Helps gets industry's "buy in" to your training program
- Ensure that as educators we produce the best "product"





- 1. Interview key stakeholders
- 2. Survey suppliers/supporting businesses of key stakeholders
- 3. Turn industry feedback into individual competencies
- 4. Use competencies to develop industry relevant curriculum

Total General Information Responses - 17	
Number of Responses in Program Areas	
Program Area	#
Additive Manufacturing	15
CNC Machining	19
Metrology/QA	13
Welding	12



## Strategic Engagement

Helps provide the resources

- Establishes a well rounded network of support
- Provides opportunities for political support at federal, state and local level
- Proves that you have "people in your corner"



# The Value of Engagement

## **Workforce Shortage**

3.5M

#### Shortage

The United
States will be
3.5M
manufacturing
workers short by
2025

2.4M

#### **Skills Gap**

2.4M of those jobs are expected to go unfilled 454B

#### Cost

Loss in manufacturing revenue of 454B by 2028

### A multifaceted solution



POWERING AMERICA'S WORKFORCE



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