



**RoboticsCareer.org**  
POWERED BY ARM INSTITUTE

# The ARM Institute

The Nation's Leading Robotics and AI  
Manufacturing Innovation Institute

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# The ARM Institute Mission

The ARM Institute **accelerates the development and adoption of innovative robotics and AI technologies** that are the foundation of every advanced manufacturing activity today and in the future.



We leverage a unique, robust and diverse consortium of partners across industry, academia and government to:



**Make robotics, autonomy, and artificial intelligence more accessible to U.S manufacturers large and small**



**Train and empower the manufacturing workforce**

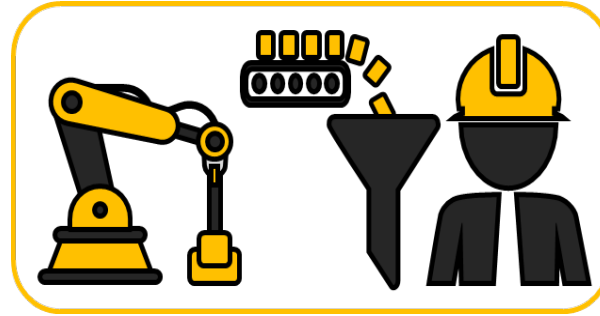


**Strengthen our economy and global competitiveness**



**Elevate our national security and resilience**

# Pursuing Mission on Three Fronts



## Consortium Collaboration & Impact

Convening and leveraging a nationwide consortium of 450+ organizations to participate in funded projects and drive innovation



## Technology Development & Resources

Lowering barriers to adoption of robotics and AI by advancing technology through funded projects led by consortium members and by providing advanced manufacturing technology services

## Education and Workforce Development (EWD) Impact

Expanding the robotics workforce with new and better career pathways with [roboticscareer.org](https://roboticscareer.org) and national workforce initiatives







# 450+ Members Representing Leadership of the **Entire US Robotics Community**

- Largest US Defense Contractors; other large OEMs
- Dominant Share of suppliers of US Industrial Robots
- Small & Medium Manufacturers Across Many Industries
- Early-Stage Innovators in Robotics and AI
- Top US Universities & FFRDCs with Robotics & AI R&D
- Community Colleges, VoTech Schools, Bootcamps
- Industry Associations, Economic Dev., Non-Profits
- Government Partners - Army, Air Force, Navy, NIST, NIOSH, DoL, DoC



# Technology Project Impact

- Over 150 technology projects(TRL 4-7) funded by federal government
- Project output, Discovery Workshop insight and Technology Roadmaps available to all members via the Online Member Community
- All projects evaluated and monitored for transition into use



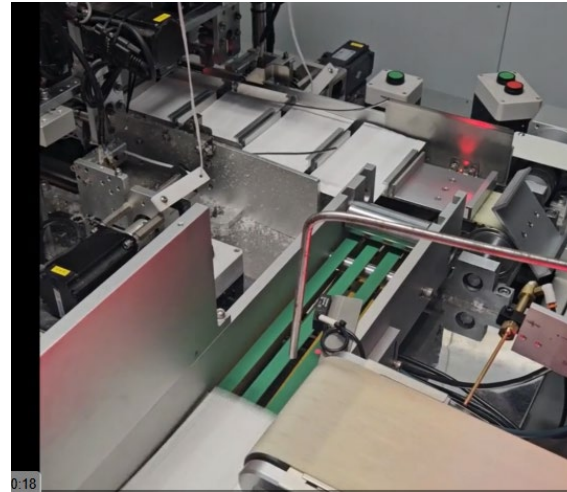


# Project Impact: MASCEI\* Disposable Mask Line

*\*Manufacturing Automation, Supply Chain  
Diversification and Addressing the  
Environmental Impact of PPE*

Project team: NIST, AFFOA, Henderson  
Sewing, Sewbo, Siemens, Carnegie Mellon  
University and Carnegie Mellon University

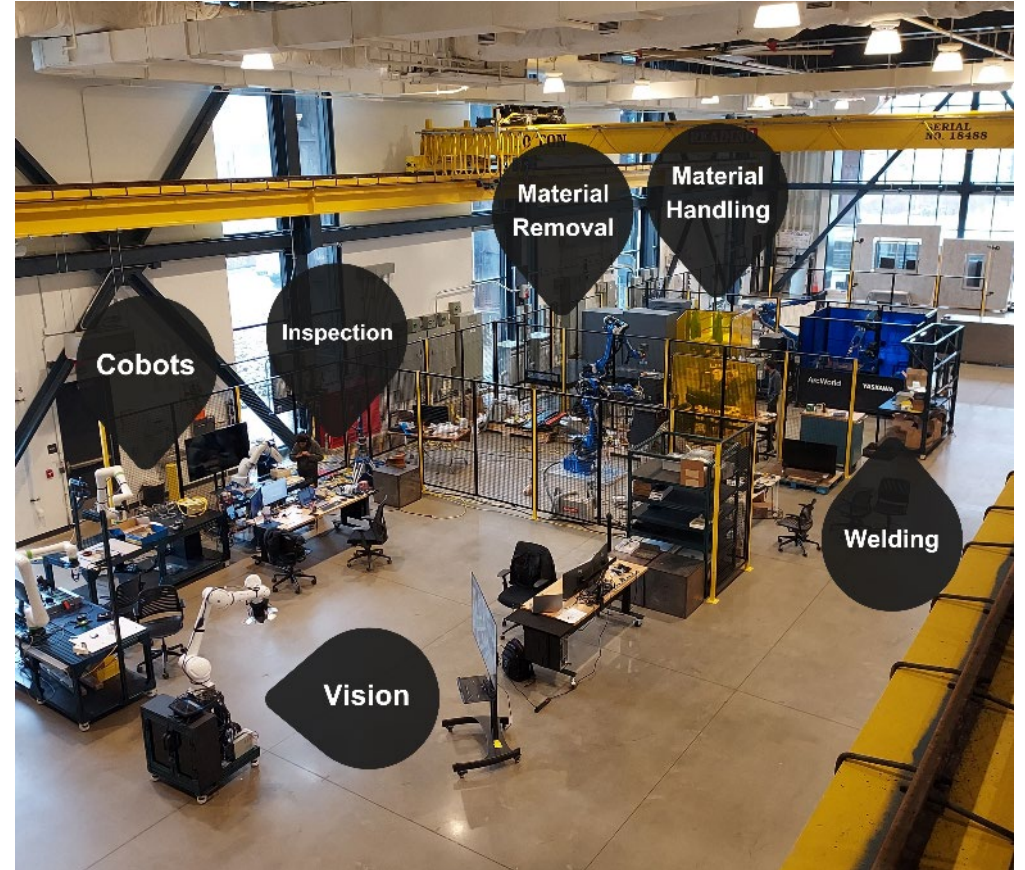
Goal: create a portable facility (2 shipping  
containers) to automate the production of PPE -  
from assembly to pallet stacking



# Robotics Manufacturing Hub in Pittsburgh

Robotic Demonstration, Production Line Assessment and Prototyping for Small and Medium Manufacturers

- Collaborative Robot (Cobot) Applications
- Large Material Movement
- Inspection Tasks
- Welding, Grinding, Finishing Tasks





# The ARM Institute's Workforce Capabilities

## RoboticsCareer.org

National Resource hosted as a website that encompasses ARM's Robotics Competency Framework, Robotics Career Pathways; Robotics Training Inventory; ARM Endorsed programs; Job Matching and Personal Profiles

## Talent Supply Chain

Amidst a tight market for skilled workers, technological change demanding new skills, industrial policy initiatives that require a workforce development strategy, and skill demand in emerging sectors, this solution offers comprehensive situational awareness, decision support for workers, decision support for employers, and decision support for policymakers

## Rapid Training Programs & Job Matching

Deliver rapid training programs / bootcamps to prepare workers to be "job-ready" at the end of the program  
The program culminates in a day of interviews with manufactures to support job matching of the students and employers

## Automation Risk Assessment & Training

Utilization of a workforce-related risk rubric to help manufacturers identify risks and opportunities for automation decisions within the manufacturing operations  
The assessment is combined with Train the Trainer curricula to enhance regional scaling

## Learning Lab & Experience Center

Specific training and experiential learning associated with each of the technical work cells housed within the ARM Headquarters

## Future of the Workforce Study

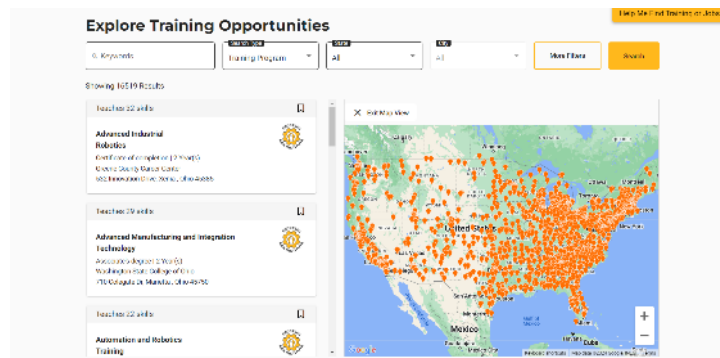
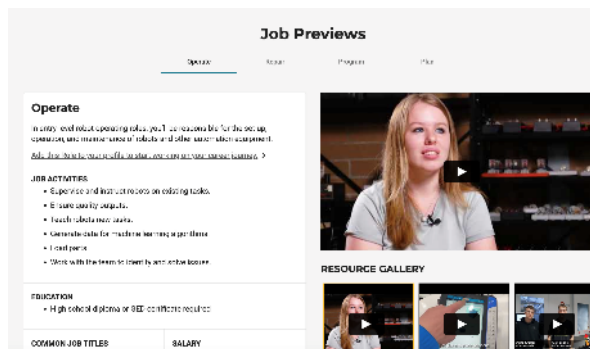
Robotics, automation, and artificial intelligence will be the biggest influencers on the worker of the future. This study is related to the impact of robotics and automation on the manufacturing worker over the next 10 years. Study is based on needs of Government, Industry, Academia, Unions, and Workforce Investment Boards





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# National Capability



## Online Platform

- Designed for employers, education and job seekers, and education providers
- Maps advanced manufacturing robotic competencies to career pathways, training programs and job opportunities
- Freely available

## Content

- Helps employers, education and job seekers find the resources in their region and nationally
- Information on 17,000+ training programs from 2,600+ organizations
- 2,000+ job opportunities in robotics in manufacturing, updated 2x week

## Training Program Endorsement

- Audit to provide validation & endorsement
- Identifies and promotes best programs
- ARM Institute seal of approval
- Access to community of practice

# ARM Annual Member Meeting Sept 3-5, 2025 in Pittsburgh, PA



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for Tech Transfer opportunities



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