

# Strengthening U.S. Manufacturing: Manufacturing USA® and the Manufacturing Extension Partnership

Manufacturing USA and the Manufacturing Extension Partnership (MEP) coordinate complementary public-private partnerships to assist U.S. manufacturers. Both are headquartered at the National Institute of Standards and Technology (NIST), and support U.S. industry to manufacture high-quality American made products that compete in the global marketplace.



Manufacturing USA is a national network of 18 manufacturing innovation institutes created to secure U.S. global leadership in advanced manufacturing through large-scale public-private collaboration on technology, supply chain, and education and workforce development. The institutes, sponsored by the U.S. Departments of Defense, Energy and Commerce, partner with six additional federal agencies.

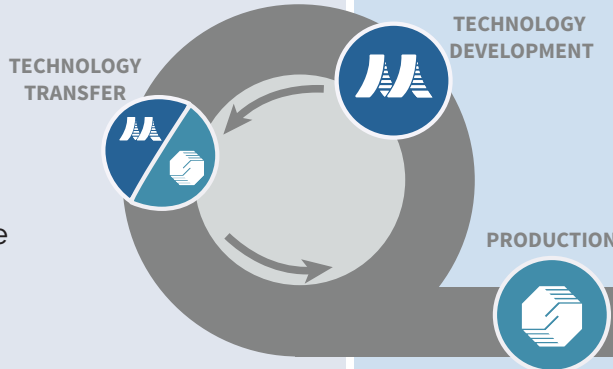


MEP is a public-private partnership with Centers across the U.S. and in Puerto Rico as well as nearly 1,400 trusted advisors and experts at approximately 475 MEP service locations working side-by-side with manufacturers to reduce costs, improve efficiencies, develop the next generation workforce, create new products, find new markets and more.

## Serving U.S. Manufacturers Throughout the Full Product Life Cycle

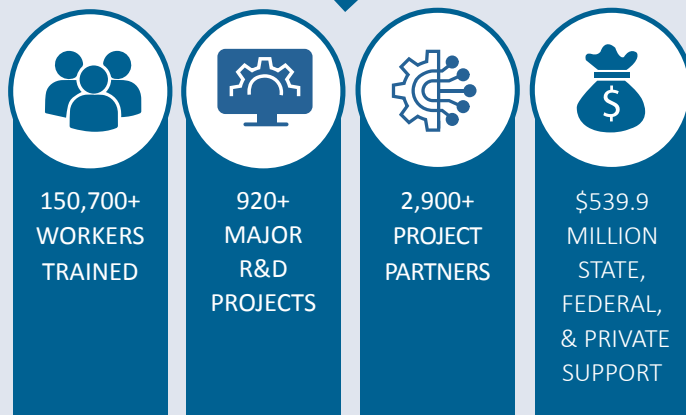
### Manufacturing USA:

Builds future manufacturing capabilities through applied research for technology development, along with the requisite workforce skills.

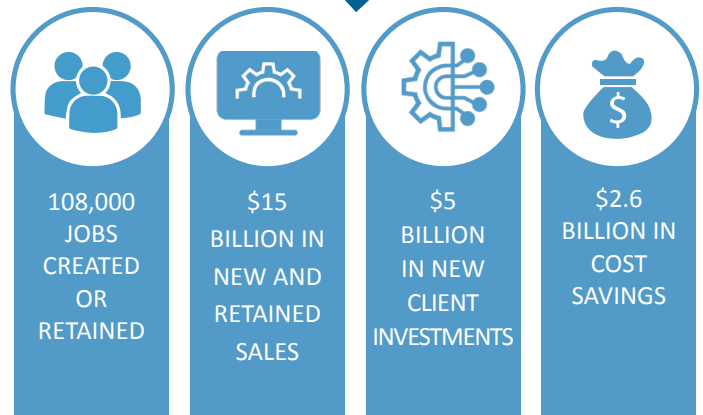


**MEP:** Focuses on deployment of available technology and business practices primarily to small and medium-sized manufacturers (SMMs).

## Distinct Approaches, One Outcome: Strengthening U.S. Manufacturing



2023 Manufacturing USA data.



According to estimates reported by MEP Center manufacturing clients in a third-party survey, the MEP National Network helped manufacturers achieve the above in fiscal year (FY) 2024.

# Go-To Resources for U.S. Manufacturing

## MANUFACTURING USA INSTITUTES

### Advanced Manufacturing Technology



- Develop new and innovative manufacturing technologies
- Scale-up new manufacturing technologies to produce new products and processes across entire industry sectors

### Innovation Ecosystems



- Spur creation and expansion of local and regional technology ecosystems
- Work across the national innovation ecosystem to strengthen manufacturing

### Workforce



- Strengthen workforce pipeline in specific technologies

## FOCUS ON

Large-scale collaboration with businesses, academic institutions, and other stakeholders working together on pre-competitive R&D innovation projects and training the manufacturing workforce to secure U.S. global leadership in advanced manufacturing

**18 national institutes**, each with a particular technology focus. Members include companies and universities from all 50 states and Puerto Rico.



**Members** join institutes and gain access to each other, shared facilities, technology, equipment, intellectual property, and training and development opportunities.

### Public-private Partnership

**Public funders:** Departments of Commerce (2 institute), Defense (8 institutes), Energy (6 institutes)

Matching funds provided by member companies, academic organizations, and state and local governments.

## MEP CENTERS

### Business Practices



- Lean and Continuous Improvement, Quality Management, Sustainability, Business Growth Services, Financial Services, Supply Chain Services, Risk Management

### Technical Services



- Engineering Services/Plant Layout, Cybersecurity and Information Technology Services, Advanced Manufacturing Technology/Industry 4.0 Services, Product Development support, Process Integration, MATTR/MATTR+

### Manufacturing Ecosystems



- Go-to resource for building manufacturing ecosystems, at the local, regional, and national levels through the MEP National Network

### Workforce



- Talent planning; customized skills training, including apprenticeships and industry recognized certifications; connections with state, local, and national resources

## FOCUS ON

Partnerships and collaboration with multiple organizations, agencies, and manufacturers to increase economic growth and global competitiveness of U.S. manufacturing

**MEP Centers located across the U.S. and in Puerto Rico**, trusted advisors and experts at MEP service locations serve local manufacturers but collaborate and share expertise nationally.



**Centers** work within a state ecosystem and provide fee-for-services to manufacturers.

### Public-private Partnership

**Public funder:** Department of Commerce

Additional funding from state and local governments.

## Joint Projects



Cybersecurity for manufacturers



Education and workforce development in advanced technologies for SMMs



Technology transfer and implementation from the institutes

[ManufacturingUSA.com](https://ManufacturingUSA.com)

[nist.gov/mep](https://nist.gov/mep)