



ManTech Program

- The DoD Manufacturing Technology (ManTech) utilizes advanced manufacturing to secure a more lethal force, strengthen alliances and new partnerships, and reform the Department for greater performance and affordability.
- The DoD ManTech Program was originally created in 1956 as a congressional mandate, written into Title 10 of the United States Code to further national security objectives through the development and application of advanced manufacturing technologies and processes through the below investment portfolios.
 - DoD ManTech 10 USC §4841
- OSD ManTech Investment Portfolios
 - P680 – Manufacturing Science and Technology (MSTP)
 - P350 – Manufacturing Innovation Institutes (MIIs)
 - P351 – Manufacturing Education and Workforce Development (M-EWD)



M-EWD Mission & Vision

MISSION

The Mission of OSD ManTech M-EWD is to work through our stakeholders to build an educated and skilled advanced manufacturing workforce that is prepared to meet the needs of an advanced technology-enabled defense manufacturing sector.

VISION

The Vision for the OSD ManTech M-EWD is to serve as a liaison for connecting defense manufacturing field opportunities, bridging skills gaps, and encouraging an inclusive industry workforce, with the assistance of our Manufacturing Innovation Institutes (MIIs) and other partnerships or collaborations.



M-EWD Strategy

- To achieve our mission and generate engagement, M-EWD Strategy focuses on creating and promoting awareness of our program activities and capabilities through:
 - **Building Regional Ecosystems**
 - Create and grow successful pilot programs that build skills with an applied regional approach.
 - **Upscaling Solutions**
 - Assisting stakeholders seeking funding options.
 - Helping build pathways to scale-up programs geographically, across technologies and across age groups.
 - Sharing best practices among Stakeholders.
 - **Leveraging Interagency Efforts**
 - Convening with Stakeholders, Experts, Practitioners.





M-EWD Building Regional Ecosystems

Current Projects Underway:

- Indiana: Indiana University (IU) Project.
- Massachusetts: MassBridge Linking Industry to Educators Project.
- Iowa: Iowa Army Ammunition Plant (IAAAP) Modernization Project.

- M-EWD is creating and growing successful **pilot programs** that build skills with an applied **regional approach**.
- Projects will incorporate community college and state funding inputs, along with local manufacturers, supply chain companies, technology SMEs, state officials, and other key stakeholders, to better assess skill requirements and adapt educational curriculums, based on workforce and asset data.
- For FY24, M-EWD is engaging in regional projects throughout Indiana, Massachusetts, and Iowa.
- These projects aim to identify and upskill local talent, for translation to statewide talent development.

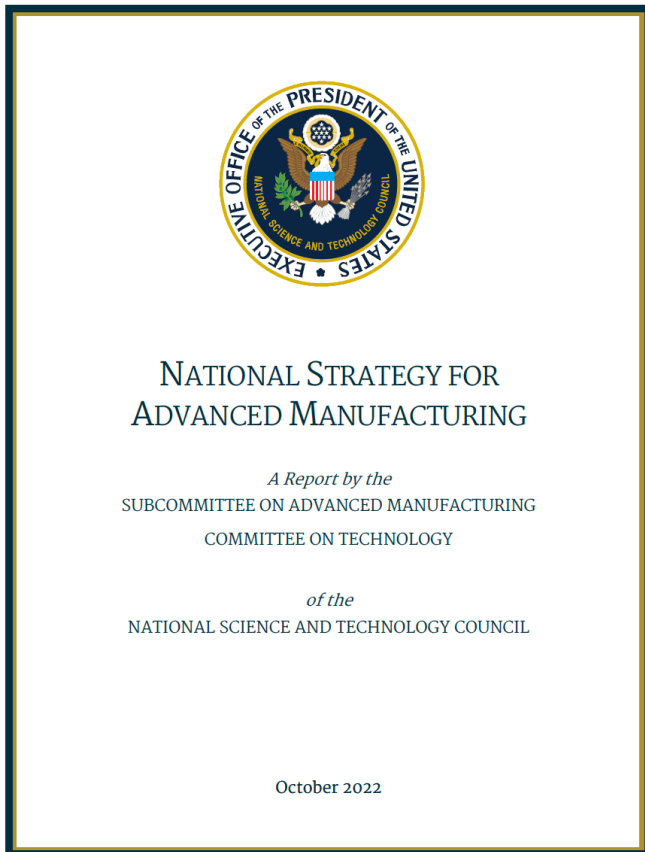


M-EWD Upscaling Solutions

- M-EWD is selecting best practices and solutions used by our MII partners to share and support the upscaling of these practices for the benefit of other institutes.
- M-EWD is hosting annual Internal Call for Proposals (CFP) to identify gaps and share solutions among the MII Network.
 - ARM Institute was the FY24 winning proposal of six joint submissions.
 - Expands an existing competency framework, improving the process to fill industry-wide jobs with a verified, qualifiable workforce, holding job-specific skills.
- M-EWD CFPs promote upscaling techniques applicable to all MII technologies to better prepare future workforce generations in advanced manufacturing.



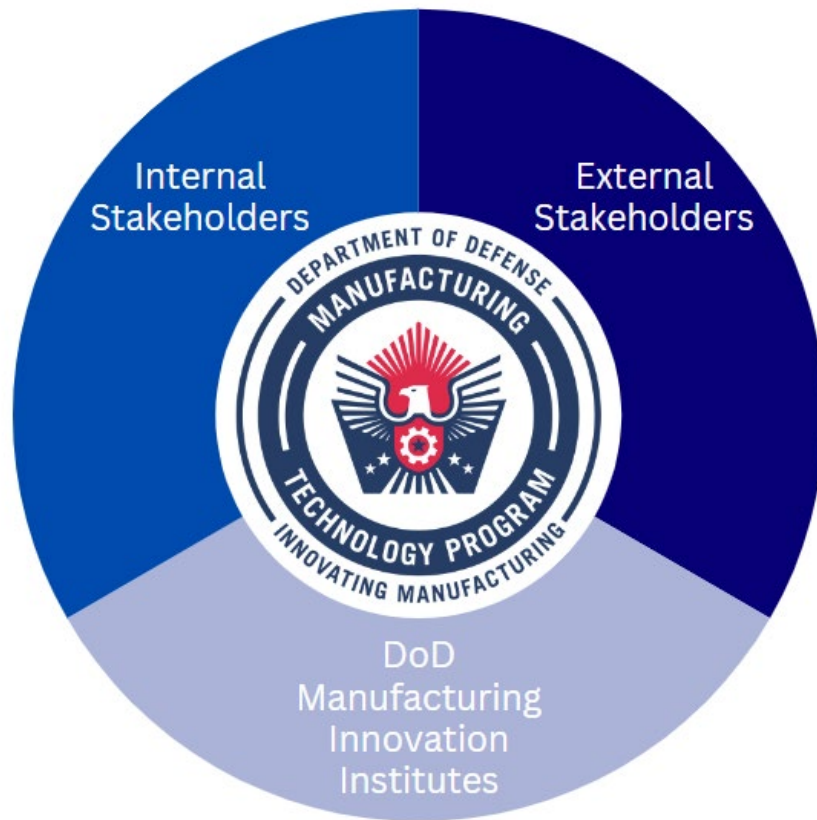
M-EWD Leveraging Interagency Efforts



- To build productive work relationships across the federal government, M-EWD participates in interagency activities to improve current workforce and prepare the future workforce.
- M-EWD chairs the White House Subcommittee on Advanced Manufacturing (SAM) EWD Team.
 - **National Strategy:** Develop and Implement Manufacturing Technologies, Grow the Advanced Manufacturing Workforce, and Build Resilience into Manufacturing Supply Chains.
 - **Workforce Is Highly Integrated:** Strategy includes three Objectives and eight Recommendations addressing manufacturing workforce.



M-EWD Ecosystem



- Stakeholders: Internal groups within our DoD Network, and External within education, workforce, practitioners, and intergovernmental organizations.
 - **Internal:** R&E Leadership and Components, DoD Workforce Organizations, Acquisition and Sustainment Offices, Service based ManTech Programs, Congressional Staff, Senate, and House Committees, White House National Science & Technology Committee and its Subcommittee on Advanced Manufacturing, National Economic Council, and Federal department workforce training programs.
 - **External:** Workforce organizations, Education organizations, Industry, Research, and Economic Development; Intergovernmental organizations.
 - **9 DoD MII Partners:** America Makes, AIM Photonics, ARM Institute, AFFOA, BioMADE, BioFabUSA, MXD, NextFlex, and LIFT.