

Manufacturing Technology Program

The Department of Defense (DoD) Manufacturing Technology (ManTech) Program strengthens U.S. national security by ensuring our forces are equipped with the latest, most advanced capabilities available, designed, developed and produced in the U.S.



Who We Are

We anticipate and close supply chain gaps in manufacturing capabilities for affordable, timely, and low-risk development, production, and sustainment of defense systems.

All projects are selected and executed through the Military Services and other DoD agencies to deliver responsive, cutting-edge capabilities that meet warfighter needs, even in logistically challenging environments.

How We Work



Collaborate

We work with industry, academia, government and non-government entities to advance manufacturing technologies



Invest

We invest in the development of next-generation solutions to address critical supply chain gaps, ensuring our warfighters are equipped with groundbreaking technologies to outpace our adversaries.



Train

We support training and education to build a highly-skilled workforce that not only secures our global leadership in cutting-edge technologies, but also strengthens and safeguards our supply chain with domestically manufactured warfighter equipment.

Our Programs

Manufacturing and Science Technology (MSTP)

- Stimulate the early development of innovative manufacturing processes.
- Address cross-cutting defense needs that impact multiple services and agencies.
- Bridge the gap for promising technologies that need more time or funding to mature.

DoD Manufacturing Innovation Institutes (DoD MII)

- Public-private partnerships created to revitalize America's domestic manufacturing capability and enhance the Nation's strategic competitiveness.
- Promotes American innovation to modernize our military capabilities.
- Strengthens the defense industrial base and ensures supply chain resiliency.

Manufacturing Education and Workforce Development M-EWD

- Builds regional ecosystems connecting industry, education, and local and federal government agencies.
- Partners with DoD MIIs to bridge workforce skills gap in advanced manufacturing.
- Leverages interagency relationships, such as Manufacturing USA, to tackle broad-ranging workforce training needs.

Joint Defense Manufacturing Technology Program (JDMTP)

- Ensures coordination and collaboration across all Military Services, Defense Logistics Agency (DLA) and Office of the Secretary of Defense (OSD).
- Identifies and integrates joint manufacturing requirements.
- Conducts joint program planning for future investments.
- Develops joint strategies to address common challenges.



Finding Solutions to Warfighter Challenges

The Warfighter Can't Have It if We Don't Make It

Success Stories

A sampling of just a few of the success stories found in our Annual Report, available on our website.

- **MSTP:** Advanced Manufacturing of High-Density Reactive Materials (HDRM), a new class of warhead materials, made possible through an investment with Army ManTech. This MSTP initiative played a critical role in maturing manufacturing technologies and enabling the integration of HDRM into advanced weapons systems that were safer, more efficient and less costly to produce.
- **DoD MIIs:** Responding to a challenge to equip forward-deployed forces in austere environments, a DoD panel selected six projects from five of the institutes. Within nine months, the teams demonstrated several groundbreaking technologies, including an expeditionary 3D printer, a bioreactor for producing blood in the field, and a portable repair factory.
- **M-EWD:** Leveraging a robotics competency framework already created by ARM, a DoD MII, funding was provided to work with three other institutes to support building out their competency frameworks - MXD, NextFlex and American Makes. The program is designed to effectively identify skill and career adjacencies within key areas of advanced manufacturing.
- **JDMTP:** Navy ManTech developed a small tool that can rework closure joints, the last welding points that seal off internal access to submarine piping systems. The "Pipecrawler" can enter a small two-inch access point, navigating to the desired location using a magnetically coupled external handle, and perform precision grinding and blending operations - dramatically reducing downtime and labor costs.



Engage with Us

- **Conference Connections:** We attend major defense conferences throughout the year. Stop by our booth or join our panel discussions on current focus areas.
- **Calls for Proposals:** We release open project proposal calls, including Broad Other Transaction Authority announcements, on SAM.gov. Follow us on LinkedIn to find out more about these opportunities.
- **Join a Manufacturing Innovation Institute:** Find the DoD MIIs that match your portfolios on our website. Point of contacts can be found under *Resources*.



Connect with Us



ANNUAL REPORT

Take a look at our Annual Report to find out more about DoD ManTech and the critical role it plays in accelerating innovation in the U.S. advanced manufacturing sector.



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