



## MEDIA BACKGROUNDER

Under Secretary of Defense for Research and Engineering (USD(R&E))  
The DoD Manufacturing Technology Program (ManTech)



The DoD Manufacturing Technology Program (ManTech), a component within the Under Secretary of Defense for Research and Engineering (USD(R&E)), works to utilize advanced manufacturing to rebuild our military, reestablish deterrence, and revive the warrior ethos.

**MISSION: Reduce the cost and time to manufacture defense weapon systems through the development and application of advanced manufacturing technologies.**

United States manufacturing innovation is essential to American economic and national security. Maintaining U.S. influence and access to markets in a stable global environment contributes to our prosperity and standard of living. It is the responsibility of the Department of Defense (DoD) to innovate and equip our forces with the best American made tools possible.

For almost 70 years old, the DoD ManTech Program has served as the only DoD program with the statutory authority (10 U.S. Code 4841) to advance American manufacturing technology.

DoD ManTech is composed of the Military Service and DoD Agency (or "Component") investment programs operated out of the Army, Navy, Air Force, Defense Logistics Agency (DLA), and Office of the Secretary of Defense (OSD).

Although DoD ManTech operates under a unified mission and shared strategic vision, the Military Services and DoD Agencies select and execute all projects and initiatives affecting their programs. Each Component has its own ManTech program, with organization-specific processes, mandates, and procedures for executing their projects:

- **Army ManTech** facilitates a partnership among the Science and Technology (S&T) community, industry, the Army's organic industrial base (OIB), the Program Executive Offices and Product Managers to ensure viable and realistic transition of technology to a program of record. The Army uses a broad spectrum of applications with a focus on initiatives for ground, air, network, Soldier, and weapon systems and platforms.
- **Navy ManTech** concentrates resources on reducing both the acquisition and life-cycle costs of key Navy acquisition programs. Navy ManTech transitions manufacturing technology which, when implemented, results in a cost reduction or cost avoidance. Navy ManTech develops an integrated investment strategy that Office of Naval Research (ONR) leadership approves annually.

- **Air Force ManTech** invests in five technology pillars: Advanced Concepts; Hypersonic Strike; Attributable and Low-Cost Systems; Networked Command, Control, and Communication Systems; and Emerging Technology.
- **DLA ManTech** (R&D) employs two major lines of effort: Industrial Base & Aging Weapon System Support and Three-Dimensional (3D) Technical Data Modernization/Model Based Enterprise. Focus areas include Advanced Microcircuit Emulation, Batteries, Digital Twin/Digital Thread, Additive Manufacturing, Castings and Forgings, Subsistence, and Clothing and Textiles.
- **OSD ManTech** focuses on a diverse set of joint, defense-critical, and sometimes higher-risk manufacturing technology areas. The portfolio works on cross-cutting national security manufacturing needs to stimulate the early development of manufacturing processes concurrent with technology development and workforce training.

To help DoD ManTech execute its mission, the OSD ManTech Program sponsors **DoD Manufacturing Innovation Institutes (MIIIs)** with headquarters and hubs across the country. Each institute is a public-private partnership designed to overcome the challenges faced by American manufacturing innovators in a variety of technology areas. While each institute operates in its own unique network, the institutes offer common capabilities that:

- Provide access to state-of-the-art tools and equipment that are otherwise beyond the reach of most businesses.
- Implement targeted education and workforce development training programs.
- Encourage project investments in applied research & industrially relevant manufacturing technologies.

**DoD MIIIs leverage public-private partnerships to revitalize U.S. manufacturing and enhance America's strategic competitiveness while enabling the military of tomorrow.**

OSD ManTech's \$1+ billion committed investment has resulted in **\$1.8+ billion in cost leverage** from industry, academia, and state and local sources. As DoD continues to strategically invest in the DoD MIIIs, each institute must secure a minimum of 1:1 cost match from private sources. The DoD MIIIs make projects and collaboration opportunities available to the institutes' **2,200+ member organizations** from across the defense industry and non-traditional companies, commercial manufacturers of all sizes, start-ups, universities, community colleges, and state and local economic developers in active partnership with the U.S. federal government.

###