



# OFFICE OF THE SECRETARY OF DEFENSE MANUFACTURING TECHNOLOGY PROGRAM

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## MANUFACTURING SCIENCE & TECHNOLOGY PROGRAM

The Office of the Secretary of Defense Manufacturing Technology Program (OSD ManTech) operates the Manufacturing Science and Technology Program (MSTP) - a research and development investment portfolio focused on a set of identified joint, defense-critical, and sometimes high risk manufacturing technology areas.

### HOW TO DO BUSINESS

- » Participate in annual call for proposals (released in the Fall)
- » Coordinate through DoD lab infrastructure, Joint Defense Manufacturing Technology Program (JDMTP), and/or DoD Manufacturing Innovation Institutes (MIIs)
- » Contribute to Focused Investment Area (FIA) topic development
- » Engage with Acquisition Program Offices, Joint Technology Programs, Industry
- » Align with the Office of the Under Secretary of Defense for Research & Engineering's critical technology areas

### FY27 MSTP INVESTMENT CYCLE

**Focused Investment Areas:** Artificial Intelligence, Electronics Manufacturing, Additive Manufacturing, Castings and Forgings, Energetics

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|---|---|
| » <b>November 2024</b><br>MSTP Project Call Released  | » <b>April 2025</b><br>Phase 1 Down Selects Announced   |
| » <b>January 2025</b><br>Proposers Day Event          | » <b>June 2025</b><br>Phase 2 Submissions and Briefings |
| » <b>February 2025</b><br>White Paper Submissions Due | » <b>July 2025</b><br>Project Selections Announced      |



Scan to register for  
submission portal



Scan for white paper  
submission details



### A Unique Path to Technology Transition

The military and defense agency ManTech investment portfolios tend to have clear and defined transition paths. An opportunity is identified, a project is funded to address the opportunity, and after the project reaches maturity, it is transitioned to the warfighter.

*But what happens when a project or prototype needs additional funding or more time to reach maturity?*

*What happens when a need is apparent across multiple services or agencies?*

*Or an emerging technology shows promise, but carries more risk?*

**This is where MSTP steps in...**



The MSTP investment portfolio operates in defense-critical, and sometimes high-risk, manufacturing technology areas. The program focuses on cross-cutting defense manufacturing needs that are beyond the ability of a single military service to address.

This unique investment strategy allows the program to bridge the gap in the transition life cycle of a defense manufacturing need, or project, and define transition in two distinct ways:

- 1) **Transition to the warfighter.** A Lightweight Hydrogen Fuel Cell project reached maturity through MSTP funding on the traditional path.
- 2) **Transition to another service or agency.** Through the Thermoplastic Welded Assemblies project, MSTP took on a higher risk in the early prototype phase to prove production feasibility and mitigate risk so other services and agencies could gain entry. After the execution of funds, the project will transition to the Air Force and Navy ManTech offices where they will continue advancing the technology and ultimately to transition to the warfighter.



## What Makes a Great MSTP Project?

- **Defense-essential or Defense-unique**
- **Articulates a distinct Joint Service warfighter impact**
  - Relevant across multiple services/agencies and/or various systems
  - Crucial to enhancing warfighting capability
  - Addresses a pressing warfighting challenge
  - Exceeds acceptable risk thresholds for industry or a singular program office
- **Exhibits a tangible, measurable impact**
  - Such as enhancements in capability, cost reduction, improved process yields, accelerated implementation, favorable return on investment, cycle time reductions, etc.
- **Offers a clear pathway for transition to the warfighter or the next funding agent**
- **Manufacturing Readiness Level 3 or higher at start**
- **Includes well-defined funding necessities and execution timelines**
  - Typically, MSTP projects operate with an average annual budget of ~\$1 million, spanning no more than 5 years
- **Demonstrates the ability to consistently monitor progress and provide measurable success metrics**
- **Has an appropriate team and support partners, proposals must be submitted through a government lead**

## To Do List

- Check on MSTP proposal portal
- Review submission deadlines
- Contact Justin McRoberts
- Follow DoD ManTech on LinkedIn
- Catch up on the latest news at [www.DoDManTech.mil](http://www.DoDManTech.mil)



**Mr. Justin McRoberts**  
MSTP Program Manager  
OSD ManTech Program  
[justin.c.mcroberts.civ@mail.mil](mailto:justin.c.mcroberts.civ@mail.mil)  
For more information

