



Office of the Secretary of War Manufacturing Technology Program

www.DoDManTech.mil

MANUFACTURING SCIENCE & TECHNOLOGY PROGRAM

The Office of the Secretary of War Manufacturing Technology Program (OSW 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 high-risk manufacturing technologies.

How to do business with MSTP:

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



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...

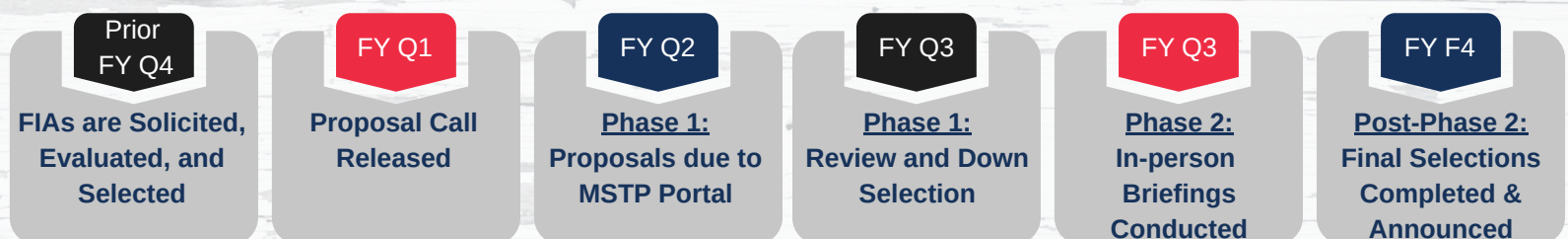
MSTP funds joint, high-risk, and defense-critical manufacturing technology areas that exceed the capability of a single military service. By bridging transition life cycle gaps, MSTP delivers matured technology either directly to the warfighter or to partner services and agencies.

Impact in Action

- **Traditional Transition:** Matured a lightweight hydrogen fuel cell project to production-ready status.
- **Collaborative Transition:** De-risked thermoplastic welded assemblies during early-stage prototyping. Once feasibility was proven, MSTP transitioned the project to the Air Force and Navy ManTech offices for final development and warfighter integration.

FY 2028 MSTP Investment Cycle

MSTP is currently evaluating DoW needs to establish focused investment areas, which will be finalized prior to the call released in the Fall.



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 the portal**

To Do List

- Check on MSTP proposal portal
- Review submission deadlines
- Contact Justin McRoberts
- Follow DoW ManTech on LinkedIn
- Catch up on the latest news at www.DoDManTech.mil

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For more information

