

The DoD Manufacturing Technology Program: Transitioning Advanced Manufacturing

For the NDIA Manufacturing Division



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DoD ManTech Program





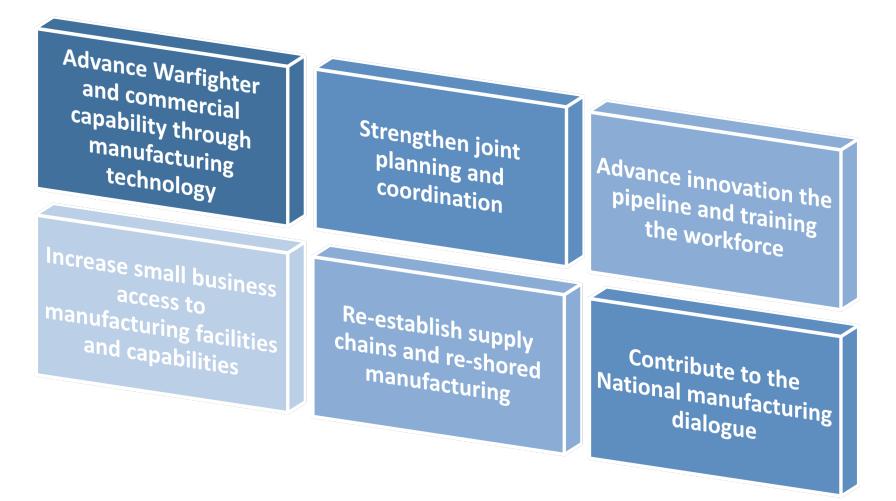
OSD ManTech Investment Portfolio

Investment Programs Under PE 0603680D8Z

- P680 Manufacturing Science and Technology (MSTP)
- P350 Manufacturing Innovation Institutes (MIIs)
- P351 Manufacturing Education and Workforce Development
- ✓ Administer the Department of Defense (DoD) Manufacturing Technology Program
- Support the Office of the Under Secretary of Defense Research & Engineering's (OUSD(R&E)) critical technology areas
- Maintain a joint planning process and provide centralized guidance through the Joint Defense Manufacturing Technology Panel (JDMTP)
- ✓ Manage the OSD Manufacturing Science and Technology Program
- ✓ Oversee the Federal government's partnership with the DoD Manufacturing Innovation Institutes
- ✓ Lead the DoD's Manufacturing Education and Workforce Development (EWD) initiatives
- Collaborate across the Department and Federal Government to advance manufacturing in the United States



ManTech Program Focus and Opportunities





For more information...



DoD ManTech Program & Sponsored Institutes

www.DoDManTech.mil



www.manufacturingusa.com/

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For More Information www.DoDManTech.mil



BACKUP



DoD MII Mission and Vision Chartering Principles

Advancing Research & Technology

Partner with industry to invest in applied research and industrially-relevant manufacturing technologies Establishing & Growing Manufacturing Ecosystems

Establish regional manufacturing hubs and ecosystems for long-term, national impact Securing Human Capital

Develop manufacturingspecific education and workforce development resources to ensure innovative technology is manufacturable

- Industry driven, public-private partnerships are a resource for the entire DoD and other Federal Agencies
- Principles support the OSD ManTech congressionally-mandated mission to support the Warfighter while enhancing the U.S. manufacturing base capabilities, expertise, and intellectual property (IP)



DoD Manufacturing Innovation Institutes Current Manufacturing USA Network



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Where the DoD MIIs Fit within the Department

The DoD MIIs Help Fill the Self-Imposed Valley of Death

Innovation Investments Public & Private	Dod Innovation Capture & Nurture Ecosystem E.G. NSIN, Sofwerx		Prototypes End User Driven PM Requirement Driven		Manufacturing Scale Prototype To Follow On Production		Production & Deployment	Operation & Support
Institute Assets Institute Member IP Institute Roadmap IP Private Assets State of the Arts COGs Start-up Technology DoD Labs FFRDCs Nat'I Labs DARPA NSIN 'orphaned investments' 6.1-6.2 Investments UARCs RRTO Competitive grants	End user needs & pain points PM requirements present & future 6.3-6.4 'orphaned investments'	Acces MII's Ir Net Entrep MI's pro resources Road comm Scaled co	l Sl Civil Mi ss to Industry	e Proposition thr ManTech BIR /STTR litary Integrator for Dual-Use Technol st Share & Projects MII's Pro Netw Present & supply Acquisition relatior n=100- DIU In-Q-T AFWERX	ogies oduction vork & future chain customer iships	Procuren PEOs PMs Requiren RIF Title 3		
MRL1 $>$ MRL2		MRL 4		5 MRL 6	> MRL 7	MRL8		MRL 10
Basic manufacturing implications identified		chnology produce a lab environmen		Product prototype/s in a production relevant				Full rate production demonstrated

*Created by National Academies of Science for DoD ManTech as part of their report on "Strategic Long-Term Participation by DoD in Its Manufacturing USA Institutes," 2019