



2026 Navy ManTech

POINTS OF CONTACT DIRECTORY

Transitioning Advanced Manufacturing Technology to the Fleet

Letter from the Program Lead

Welcome to the 2026 edition of the Navy ManTech Points of Contact Directory. We are indeed living in extraordinary and fast-moving times, and the Navy ManTech Program is aligning to the demands that are being placed on the U.S. Navy. The Navy ManTech Program has long been committed to improving the cost and performance of the U.S. Navy's key weapons systems by developing and applying advanced manufacturing technologies that reduce the time and cost to produce and maintain those systems.

Recently, the Navy ManTech Program has made a pivot to its long-standing investment strategy to address the Administration's focus on maritime dominance and the Chief of Naval Operations' (CNO) strategic vision for the Navy. The strategy will prioritize projects with a measurable impact on speed of delivery, increased throughput, enhanced capabilities and reduced manufacturing and sustainment costs to support broader Navy goals of improving fleet readiness and modernizing industrial capacity.

Navy ManTech focuses on four naval production domains: undersea, surface, air, and weapons systems. We partner with program offices, shipyards, and research institutes across five key platforms: the VIRGINIA Class submarine (VCS), the COLUMBIA Class submarine (CLB), the CVN 78 Class aircraft carrier (CVN 78), the DDG 51 Class destroyer (DDG) and the F-35 Lightning II. ManTech also supports the Program Executive Office Integrated Warfare Systems (PEO IWS) with production of weapons systems as part of our portfolio.

Recent examples of Navy ManTech's efforts in support of the Navy's objectives include an innovative process for manufacturing critical inner bottom structures. A project being led by the Center for Naval Metalworking (CNM) is greatly simplifying the inner bottom fabrication process for several Navy ship classes. An optimized inner bottom fabrication process enables the removal of unnecessary structural components, such as stiffening rings and collars, resulting in a reduction of hundreds of hours in fabrication, fit-up, and welding time. This enhancement has been implemented at HII-Ingalls on LHA, LPD and DDG platforms. In addition, an improved process for fabricating "egg-crate" inner bottom structures is in final implementation stages for LPD, LHA and DDG platforms and will be a game-changer in the manufacturing of these complex assemblies.

Another key project, developed by the Naval Shipbuilding and Advanced Manufacturing (NSAM) Center of Excellence, delivered a digital management tool that transforms how shipyard services are allocated. Replacing outdated paper-based methods, this automated system optimizes the distribution of services, maximizes their availability, and gives leadership real-time visibility into work status, significantly improving project oversight. This improved service allocation tool is fully implemented at HII-Ingalls benefiting construction processes for LPD, LHA and DDG platforms.

I believe that the Navy ManTech Program is uniquely poised to aggressively support the President's Executive Order of "Restoring America's Maritime Dominance," "Golden Fleet" initiative and the CNO's strategic vision of "Foundry-Fleet-Fight." We are committed to implementing Navy ManTech's FY2027 Investment Strategy as outlined on Pages 20-21 in this directory. I look forward to working with all of you as we continue to develop improved manufacturing technologies for the benefit to the Navy and DOW.

Neil Graf
Navy Manufacturing Technology (ManTech)
Lead / Program Officer
ONR ManTech Program



Navy ManTech Overview

The Navy Manufacturing Technology (ManTech) Program is an industrial preparedness program focused on manufacturing improvements for key naval platforms, responding to the needs of the Navy for the production and repair of platforms, systems and equipment. It helps reduce acquisition and total ownership costs by developing, maturing and transitioning key manufacturing technologies and processes. Investments are focused on those projects that have the most benefit to the warfighter.

The Navy ManTech Program is managed by Code 33, Sea Warfare and Weapons Department, of the Office of Naval Research (ONR), with direct oversight from the Chief of Naval Research. Navy ManTech operates synergistically with other industrial base programs, such as the Maritime Industrial Base (MIB) Program and National Shipbuilding Research Program (NRSP) and complies with USC Title 10, Section 4841 and DOW 4200.15.

Navy ManTech funds projects and develops enabling manufacturing technology, such as new processes and equipment, for DOW weapon system production lines that deliver the highest impact manufacturing technology to benefit the fleet when implemented. Focused on affordability, expanded throughput and enhanced capability, Navy ManTech supports industry's ability to expand production at scale throughout a weapon system's life-cycle. Ancillary impacts include supply chain enhancement, productivity improvements, span time reduction, operational availability and delivery speed.

Navy ManTech works with defense contractors, the Naval Research Enterprise, Navy acquisition Program Offices and academia to develop improved processes and equipment. ManTech promotes timely implementation to strengthen the defense industrial base. With their expertise in specific technology areas, the Navy ManTech Centers of Excellence (COEs) play a key role in the definition and execution of the program. Together with the Navy ManTech Program Office, representatives of our Navy customers and our industry partners, the COEs function as a team to define projects that address the needs of the Navy in time to make a difference. As an example, extensive interaction and cooperation among the Navy ManTech Program Office, COEs, General Dynamics Electric Boat, Huntington Ingalls Industries – Newport News Shipbuilding, Program Executive Office (PEO) Submarines and the PMS 450 Program Office have resulted in a focused ManTech initiative for the VIRGINIA Class submarine. To date, technology from 82 of the portfolio's projects have been implemented, or are in the process of being implemented, resulting in real acquisition cost savings of approximately \$54.7M per hull, verified by our industrial partners and PMS 450.

Navy ManTech Overview

The directors of the ManTech programs of the Army, Navy, Air Force, Defense Logistics Agency, Missile Defense Agency and Office of the Secretary of War (OSW) coordinate their programs through the auspices of the congressionally chartered Joint Defense Manufacturing Technology Panel (JDMTP) with ex-officio representation from agencies such as the Department of Commerce and the Department of Energy. The JDMTP is organized to identify and integrate requirements, conduct joint program planning and develop joint strategies. Although the JDMTP has a shared strategic vision, technical projects and initiatives are selected, executed and managed separately through each service or agency ManTech program.

Navy ManTech — proud to have contributed to the cost reduction of the following platforms:



VCS



CVN 78



CLB



F-35 Lightning II



DDG 51



Warfare Systems

Navy ManTech's key affordability platforms — VIRGINIA Class submarine (VCS), COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class aircraft carrier, F-35 Lightning II aircraft and integrated warfare systems. (Courtesy of Lockheed Martin and the U.S. Navy)

Navy ManTech Objectives

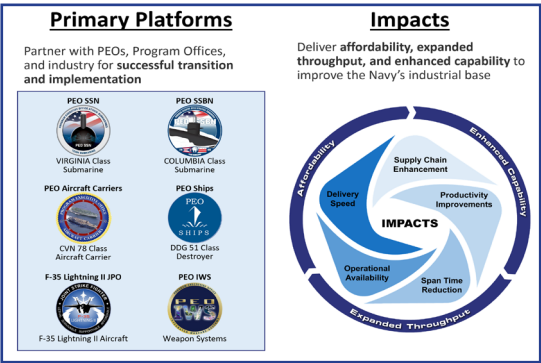
The overall objective of the Navy ManTech Program is to improve the affordability and readiness of Department of the Navy systems by engaging in manufacturing initiatives that address the entire weapon system life-cycle and that enable the timely transition of technology to industry to support the fleet. More specifically, DOW Directive 4200.15 states that ManTech investments shall:

1. Aid in the economical and timely acquisition and sustainment of weapon systems and components.
2. Ensure that advanced manufacturing processes, techniques and equipment are available for reducing DOW materiel acquisition, maintenance and repair costs.
3. Advance the maturity of manufacturing processes to bridge the gap from research and development advances to full-scale production.
4. Promote capital investment and industrial innovation in new plants and equipment by reducing the cost and risk of advancing and applying new and improved manufacturing technology.
5. Ensure that manufacturing technologies used to produce DOW materiel are consistent with safety and environmental considerations and energy conservation objectives.
6. Provide for the dissemination of program results throughout the industrial base.
7. Sustain and enhance the skills and capabilities of the manufacturing workforce and promote high levels of worker education and training.
8. Meet other national defense needs with investments directed toward areas of greatest need and potential benefit.



Navy ManTech Investment Strategy

Focused on affordability, expanded throughput and enhanced capability, Navy ManTech supports industry's ability to expand production at scale throughout a weapon system's life-cycle. Ancillary impacts include supply chain enhancement, productivity improvements, span time reduction and operational availability. ManTech is focused on manufacturing improvements for key acquisition platforms: VIRGINIA Class submarine (VCS), COLUMBIA Class submarine (CLB), CVN 78 Class aircraft carrier, DDG 51 Class destroyer and F-35 Lightning II aircraft, as well as PEO Integrated Warfare Systems (IWS) weapon systems for the ship classes.



Strategic planning for Navy ManTech is an ongoing effort. Navy ManTech annually analyzes acquisition scenarios and plans to determine major acquisition programs for potential investment. As the current platforms ManTech supports mature through their respective acquisition cycles, ManTech's investment targets change.

Although different in focus, scope and size, ManTech's affordability initiatives function similarly. For each, ManTech has established an integrated project team or IPT with representatives from Navy ManTech, the platform Program Office and representative industry. The IPT meets regularly to coordinate and review the portfolio and to ensure that projects are completed in time to meet the platform's window of opportunity for implementation.

Individual Navy ManTech projects are developed in conjunction with industry and the acquisition Program Manager (PM). With their expertise in specific manufacturing areas, the Navy ManTech COEs play a key role in project definition. Planning for transition prior to the initiation of projects is critical for the implementation of technology on the factory floor and eventually into the fleet.

To clarify communication between program participants, Navy ManTech has established definitions for "transition" and "implementation." For Navy ManTech purposes:

- **Transition** denotes that point at which the ManTech project is completed and the technology meets customer (Program Office / industry) criteria and goals for implementation and is available for use at industrial / naval organic facilities.

Navy ManTech Investment Strategy

- **Implementation** denotes the actual use of the ManTech results on the factory floor. (The resources for implementation are typically provided by entities other than ManTech including the Program Office and/or industry).

Agreements are reached on the degree of participation of the PEO / PM in support of the projects. The goal is for each PEO / PM to contribute resources to enable successful completion and implementation of the ManTech projects. Resources supplied may include financial support or cost share for the ManTech project itself or funding of Navy laboratory personnel to provide test, evaluation, certification and/or other services. In addition, each PEO / PM is expected to provide personnel with technical expertise and/or management experience to assist the ManTech Program Office in project oversight. This support affords assurance that the weapon system PM is truly committed to the successful outcome of the ManTech project. In addition, this close working relationship between the parties provides ManTech with a long-term view of implementation.

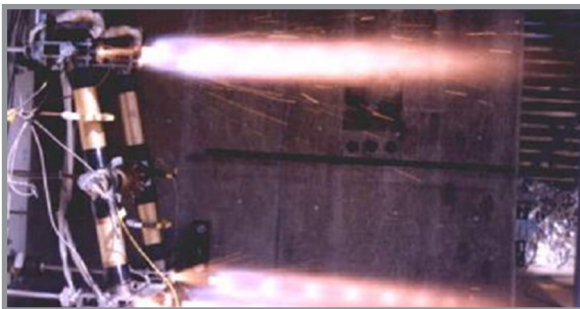
On a per-project basis, Technology Transition Plans (TTPs) document roles, responsibilities and required resources needed to achieve transition and implementation. TTPs highlight the path from the technology development that ManTech performs to implementation on the factory floor. TTPs are signed by Navy ManTech, the relevant COE Director, a management representative of the industrial facility where implementation will occur, the Program Office and, if appropriate, the Technical Warrant Holder. To assess progress, ManTech tracks the status of TTPs and conducts an annual assessment of transition and implementation.

In FY12, Navy ManTech formalized its focus on implementation and risks to implementation by instituting an implementation risk assessment management process to assess potential future projects (those in the planning stages) as well as ongoing projects. For ongoing projects, risks are discussed during scheduled program reviews to ensure ManTech is on the same page as acquisition and industry stakeholders. For projects in the planning phases, the goal is to recognize risks to implementation upfront and, by doing so, prioritize the funding of projects that have the greatest probability of implementing and have a real impact on affordability.

Semi-annual affordability assessments identify projected cost reduction / avoidance per project. These assessments, which are verified by industry and the relevant Program Offices, provide critical information to ensure that ManTech can continue to meet both its affordability goals as well as those of the platform and are essential to ManTech's success. While a large majority of annual ManTech Program resources are invested in accordance with the investment strategy, Navy ManTech does support smaller efforts in Energetics and Repair Technology (RepTech).

Navy ManTech Investment Strategy

Energetics: ManTech projects that support energetics develop and transition process technologies for the synthesis of new or improved energetic materials, improved manufacture of propellants and explosives and improved handling and loading of energetic materials into systems and components. Projects develop solutions to ensure the availability of safe, affordable and quality energetics products in support of Program Executive Offices, such as Integrated Warfare Systems (PEO IWS / IWS3C) and Conventional Strike



*Development of energetics manufacturing for primary explosives.
(Courtesy of EMTC)*

Weapons (PEO (W) / PMA-201). More information on the Energetics Manufacturing Technology Center (EMTC) can be found on Page 14.

RepTech: While the major emphasis of Navy ManTech is on support of new production, ManTech also addresses repair, overhaul and sustainment functions that emphasize remanufacturing processes and advancing technology. The RepTech Program focuses on fielded weapon systems and provides the process and equipment technology needed for repair and sustainment. Requirements for RepTech projects are driven by Navy depots, shipyards, Marine Corps Logistics Bases, intermediate maintenance activities and contractor facilities responsible for overhaul and maintenance of fleet assets. In general, RepTech projects are usually shorter in duration and are funded at lower levels than standard ManTech projects. The RepTech Program is managed by the Institute for Manufacturing and Sustainment Technologies (iMAST). More information on iMAST can be found on Page 14.



*Innovative cold spray repair technology for ships.
(Courtesy of iMAST)*

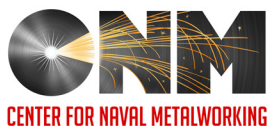
Navy ManTech Execution

Navy ManTech projects are executed through the Navy ManTech Centers of Excellence (COEs). The COEs were established as focal points for the development and transition of new manufacturing processes and equipment in a cooperative environment with industry, academia and the Naval Research Enterprise.

The COEs:

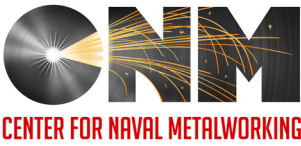
- Execute projects and manage project teams.
- Serve as a corporate expertise in technological areas.
- Collaborate with acquisition Program Offices / industry to identify and resolve manufacturing issues.
- Develop and demonstrate manufacturing technology solutions for identified Navy requirements.
- Provide consulting services to naval industrial activities and industry.
- Facilitate transfer of developed technologies.

Descriptions of ManTech's seven COEs are presented on the following pages.



Navy ManTech Execution

Center for Naval Metalworking (CNM)



Established in 2016, the CNM develops and deploys innovative metalworking and related manufacturing technologies to reduce the cost and time to build and repair key U.S. Navy ships and weapon platforms, while also collaborating with other relevant manufacturing industries. CNM utilizes a proven approach that blends a virtual center model with in-house technical expertise to ensure that project teams are comprised of the best providers from industry to identify, develop, select and execute “metals-centric” projects that support the Navy ManTech Program objectives and transition to industry.

CNM is managed by Advanced Technology International (ATI) in Summerville, SC. CNM conducts projects that focus on metals and advanced metallic materials, metal-based composites, metal materials manufacturing processes (e.g., additive manufacturing) and joining techniques, coupled with process design control and advanced metrology and inspection technologies.

CNM website: www.navalmetalworking.org



*Streamlining Hull Access Welding and Cutting with Automation.
(Courtesy of CNM)*

Navy ManTech Execution

Composites Manufacturing Technology Center (CMTC)



Established in 2000, the CMTC is a virtual center that develops improved manufacturing processes for composite-based components and facilitates technology transfer to resolve manufacturing and repair issues identified and prioritized

by the Navy's Program Executive Offices, Navy platform Program Offices, other DOW services and industry. Operated by Advanced Technology International (ATI) in Summerville, SC, CMTC forms teams of prime contractors, composites industry suppliers and universities to address Navy composites manufacturing technology needs and has strong in-depth knowledge and experience in composites manufacturing technology for all DOW weapon systems. As part of CMTC's organizational structure, all laboratories, facilities and project labor resources are provided by project teams. This structure results in cost benefit to the Navy, with maximum funding going to project execution.

CMTC's current portfolio includes composites manufacturing projects active or in development for the VIRGINIA Class submarine (VCS), COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class aircraft carrier, F-35 Lightning II aircraft, MQ-25 Stingray unmanned aircraft, XLUUV unmanned undersea vehicle, V-22 Osprey and Conventional Prompt Strike.

CMTC website: www.cmtc.ati.org



*Advancing High Yield Maching Techniques for Thermal Protection Systems.
(Courtesy of CMTC)*

Navy ManTech Execution

Electronics Manufacturing Center (EMC)

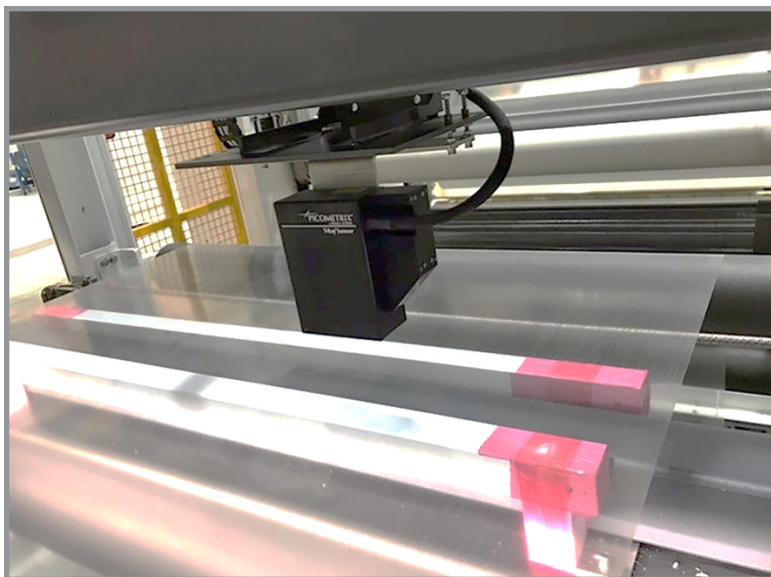
EMC

ELECTRONICS MANUFACTURING CENTER

Established in 2021, EMC is the ONR ManTech Center of Excellence for Electronics- located within the Penn State

Applied Research Laboratory's Electro-Optic and Electronics Division in Freeport, PA. Our scope occupies the areas of electronic materials, devices, assemblies, subsystems, systems, and platforms. Our mission is clear- to identify, develop, and facilitate the seamless transition of relevant electronics manufacturing technologies to industry. EMC projects deliver capacity, throughput, and life cycle cost impact for naval ships, aircraft, submarines, and unmanned systems. The EMC facility has multiple laboratories dedicated to technology research and development. EMC personnel and technical contributors are experienced in most facets of electronics manufacturing and include experts from the Applied Research Laboratory, Pennsylvania State University, as well as collaborators within the electronics manufacturing industry. With the highest degrees of quality, integrity, and technical excellence, EMC aims to maintain a strong scientific and engineering resource base that is responsive to manufacturing technology issues of national importance in the area of electronics manufacturing. Potential partners are members of the Electro-Optics and Electronics Alliance (EOEA). Alliance membership is available at no cost to US companies, government labs, and academic institutions involved the electronics manufacturing ecosystem.

EMC website: www.emc.psu.edu/



*Demonstrating Feedback Loop for Smart Coating Removal.
(Courtesy of EMC)*

Navy ManTech Execution

Electro-Optics Center (EOC)



The EOC operates within the Penn State Applied Research Laboratory (ARL) and has served as Navy ManTech's COE for electro-optics since 1999. EOC's mission is to transition new electro-optics technologies and applications to Navy-selected

focus platforms, through strong technical interactions with DOW and its industrial base, demonstrating acquisition cost and/or life-cycle cost savings and accelerating capabilities to the warfighter. EOC generally focuses its projects in one of three technical areas: manufacturing of electro-optics, manufacturing using electro-optics and electro-optics manufacturing systems.

EOC is comprised primarily of former industry and DOW personnel and maintains technical competencies in laser systems, imaging sensors and systems, fiber optics and photonics and electro-optics manufacturing technology. Located in Freeport, PA, EOC collaborates with electro-optics companies throughout the United States. EOC also supports important DOW technology thrusts and programs of national interest, such as the design, analysis and testing of advanced laser weapons systems. As a University Affiliated Research Center, Penn State's ARL maintains essential research, development and engineering core capabilities; maintains long-term strategic relationships with DOW sponsors; and operates in the public interest, free from real or perceived conflicts of interest.

EOC website: www.eoc.psu.edu



*Driving Efficient Beam Director Optical Manufacturing.
(Courtesy of EOC)*

Navy ManTech Execution

Energetics Manufacturing Technology Center (EMTC)



Established in 1994 by ONR, the EMTC is Navy-operated and located at the Naval Sea Systems Command's

Naval Surface Warfare Center, Indian Head Division (IHD), in Indian Head, MD. IHD serves as the focal point for EMTC and, as a renowned leader in energetics, provides a full spectrum of capabilities, including energetics research, development, modeling and simulation, engineering, manufacturing technology, production, test and evaluation and fleet / operations support. EMTC develops solutions to manufacturing problems unique to military system / subsystem acquisition and production requirements and the energetics industry. EMTC has a full understanding of the inherent dangers of energetics and the need for special processes, equipment, facilities, environmental considerations and safety precautions required for manufacturing.

EMTC does not own or operate any facilities or equipment but is essentially a virtual enterprise that involves government, industry and academia in identifying requirements and executing projects. EMTC identifies weapon system and manufacturing-based needs, develops and demonstrates the required manufacturing process technology solutions and transitions successful results that ultimately benefit the warfighter.

EMTC website: go.usa.gov/xMBqg



*New CONUS Manufacturing Source for the Critical Chemical HNS.
(Courtesy of EMTC)*

Navy ManTech Execution

Institute for Manufacturing and Sustainment Technologies (iMAST)

IMAST

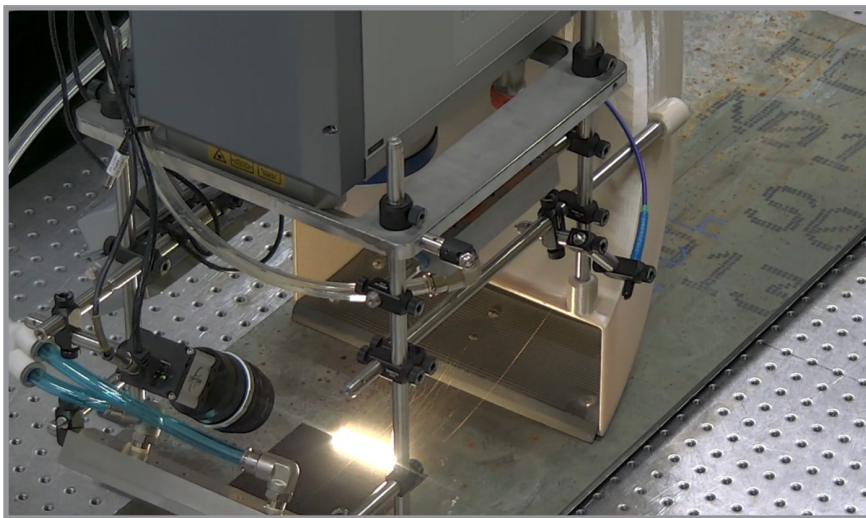
INSTITUTE FOR MANUFACTURING AND SUSTAINMENT TECHNOLOGIES

Laboratory, one of seven U.S. Navy University Affiliated Research Centers. Located in State College, PA, iMAST addresses challenges related to Navy and Marine Corps weapon system platforms in the following technical areas: materials processing, laser processing, metals and polymer additive manufacturing, advanced composites, digital manufacturing, coatings removal and surface preparation, complex systems monitoring and repair / sustainment.

Established in 1995, the iMAST executes and oversees the Navy ManTech mission at the Pennsylvania State University's Applied Research

iMAST also manages the Repair Technology (RepTech) program and applies new and emerging technologies to improve the capabilities of Navy depots, shipyards, Marine Corps Logistics Bases and lower-level maintenance activities throughout the fleet. RepTech cooperates and communicates with Navy COEs, the joint depot community, DOW industrial activities, industry, PEOs and university laboratories to improve sustainability, reliability and system availability.

iMAST website: <https://www.arl.psu.edu/imast>



*Laser Ablation to Improve NNS Pre-construction Primer Removal Operations.
(Courtesy of iMAST)*

Navy ManTech Execution

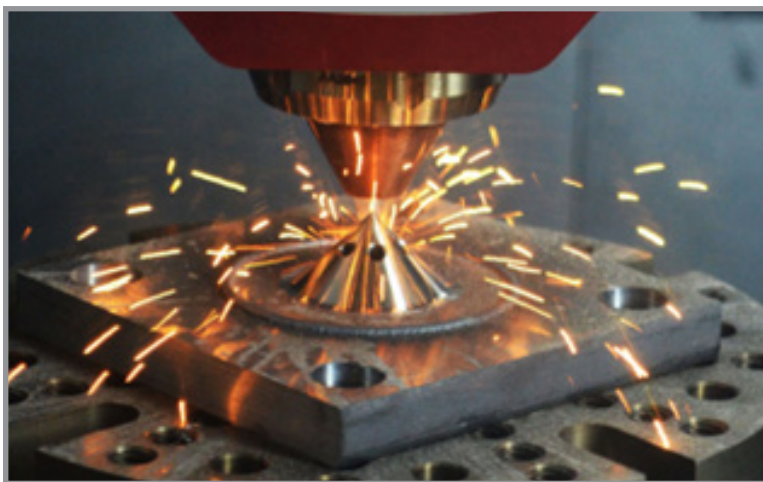
Naval Shipbuilding and Advanced Manufacturing (NSAM) Center



Established in 2003, the NSAM Center and its predecessor, the Center for Naval Shipbuilding Technology, have been operated by Advanced Technology International (ATI) in Summerville, SC. The NSAM Center develops advanced manufacturing technologies and deploys them in U.S. industrial facilities to improve manufacturing processes and ultimately reduce the cost and time required to build and repair Navy weapon platforms. The NSAM Center works closely with the Navy's acquisition and sustainment community and the defense industry to address manufacturing technology issues that negatively impact efficiency, with respect to both cost and cycle time. Projects improve construction and repair processes, such as optimizing production practices, increasing the use of robotic manufacturing methods, investigating modular / packaged units, improving accuracy control, eliminating inefficiencies in material usage and using advanced manufacturing tools and technologies.

The NSAM Center focuses on technologies that improve the affordability of current Navy acquisition programs. New projects will investigate using modern planning systems, automated fabrication technologies, supply chain improvements, streamlined unit / module flow to and within storage and construction areas, wireless data management applications, using 3D models to support production and developing improved scheduling systems for new, aggressive build strategies.

NSAM website: <https://NSAM.ati.org>



*Maturing Additive Manufacturing to Improve Submarine Supply Chain and Shipyard Readiness.
(Courtesy of NSAM)*

Navy ManTech Technology Transfer

As previously indicated, the emphasis of the Navy ManTech Program is on transition of manufacturing technology that will result in tangible benefits for the fleet. To achieve transition, it is imperative that the manufacturing advances be widely disseminated to the industrial base for implementation. To foster that dissemination, Navy ManTech provides the following:

Program Website The **Navy ManTech Program website** can be accessed at <https://www.onr.navy.mil/work-with-us/navy-mantech>. The website is a central source to access general information about program activities and participation, developments and events and key points of contact. The site also offers links to the annual Navy ManTech Project Book, program success stories, as well as other publications.

Defense Manufacturing Conference The annual **Defense Manufacturing Conference (DMC)** is a forum to present and discuss initiatives that address DOW manufacturing technology and related sustainment and readiness needs. The conference includes briefings on current and planned programs, funding, DOW initiatives and seminars related to the various technology thrusts currently being pursued.

ShipTech The biennial event is a forum to exchange information on the manufacturing technology developments generated by Navy ManTech through its COEs, as well as the related initiatives conducted by the National Shipbuilding Research Program, industry and academia. **ShipTech's** objective is to reduce acquisition and total ownership costs of naval ships, accelerate the delivery of capabilities to the warfighter and enhance the competitiveness of the U.S. shipbuilding industry.

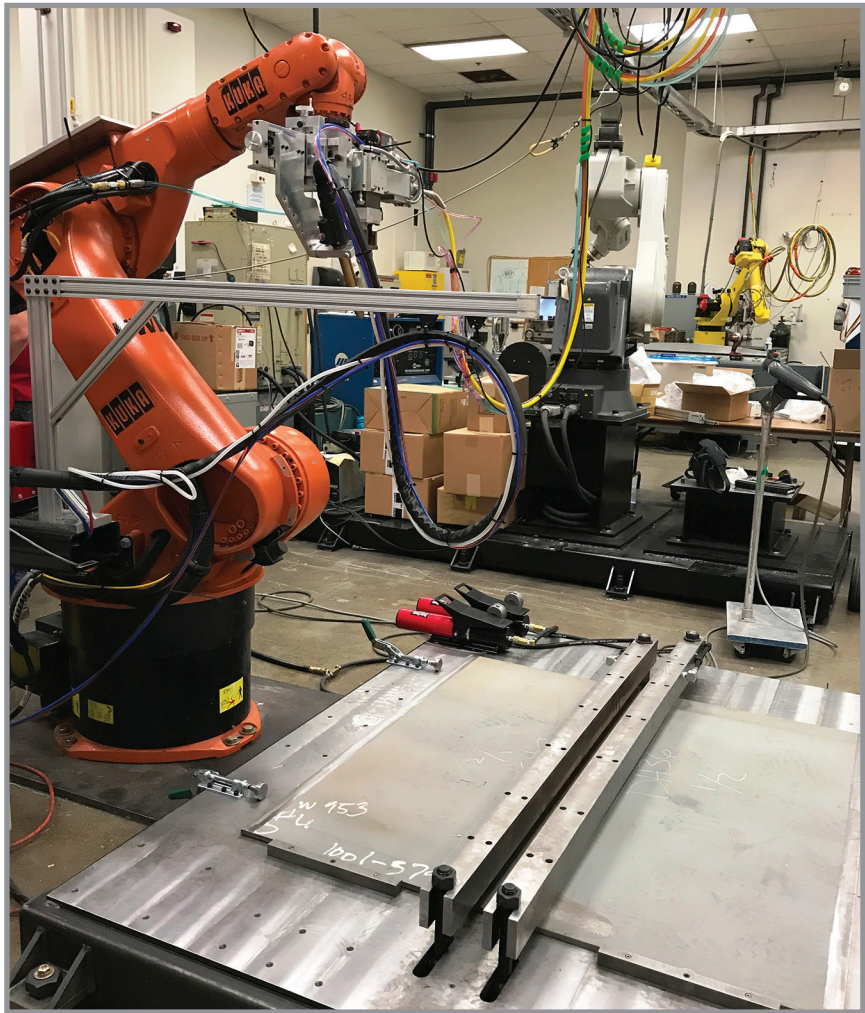
Project Book The **Navy ManTech Project Book**, which is published annually, provides a snapshot of Navy ManTech projects active during the previous fiscal year. Points of contact for each project are provided to facilitate technology transfer.

Centers of Excellence **Navy ManTech COEs** are focal points for specific manufacturing technology areas. The charter for each COE requires it to act as a consultant to both the Navy and industry and to facilitate the transfer of technology throughout the industrial base.

Navy ManTech Technology Transfer

The Navy urges government activities, industry and academia to participate in its ManTech Program as participants, advisors, consultants and, most importantly, as beneficiaries. Development and implementation of new and improved technologies is achieved only through a concerted effort by everyone connected with the design, manufacture and repair and sustainment of naval weapon systems.

For additional information on participation in the Navy’s effort to strengthen the U.S. industrial base, to impact platform affordability and to increase Navy readiness, contact any of the Navy ManTech points of contact listed on Pages 23-29.



*Increasing productivity and reducing distortion by employing hybrid laser arc welding.
(Courtesy of Huntington Ingalls Industries - Ingalls Shipbuilding / NSAM)*



Navy ManTech – Affordability improvements for key naval platforms: VIRGINIA Class submarine (VCS), F-35 Lightning II aircraft, COLUMBIA Class submarine (CLB), CVN 78 Class aircraft carrier, DDG 51 Class destroyer and integrated warfare systems.

(Courtesy of PEO (Subs), PEO (JSF), PEO (Columbia), PEO (Aircraft Carriers), PEO (Ships) and PEO (IWS))

2026 Navy ManTech Points of Contact Directory

Transitioning Advanced Manufacturing Technology to the Fleet

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Navy ManTech Releases New Investment Strategy

The Navy ManTech Program is committed to improving the cost and performance of the U.S. Navy’s key weapons systems by developing and applying advanced manufacturing technologies that reduce the time and cost to produce those systems. The program focuses on the development, maturation, and demonstration of manufacturing technologies in the MRL 4-6 range that can be successfully implemented by the weapon system manufacturer.

For FY2027, the Navy ManTech Program has made a pivot to its long-standing investment strategy to address the new Administration’s focus on maritime dominance and the Chief of Naval Operations’ strategic vision for the Navy.

The Navy ManTech Program’s FY2027 strategy is focused on reducing acquisition and total ownership costs for key platforms by developing and transitioning advanced manufacturing technologies and processes. The strategy will prioritize projects with a measurable impact, including increased throughput, speed of delivery, and enhanced capability, to support broader Navy goals of improving fleet readiness and modernizing industrial capacity. The FY2027 strategy is defined around undersea, surface, weapons, and aviation systems platforms.



Transitioning Advanced Manufacturing Technology to the Fleet

Key Focus Areas

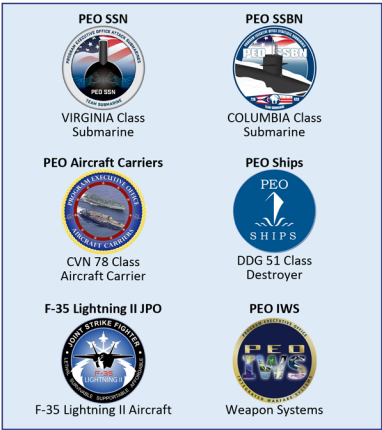
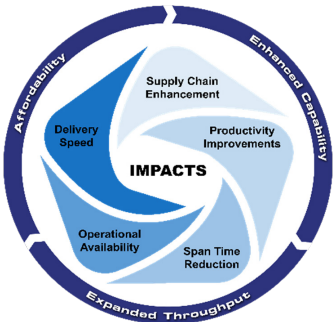
- **Targeted acquisition platforms:** Supporting major new and current acquisition programs by developing the necessary manufacturing technologies to improve performance and reduce manufacturing costs.
- **Shipbuilding (Golden Fleet):** Supporting administration objectives to enhance U.S. Maritime Industrial Base by investing in critical technologies and strategic partnerships that increase shipbuilding capacity, enhance ship availability, and support national maritime objectives.
- **Shipyard of the future:** Modernizing naval shipyards through technology integrations in advanced automation, robotics, and digital thread technologies to enable fully connected and highly efficient shipbuilding and repair ecosystem.
- **Advanced manufacturing and digital technologies:** Investing in advanced manufacturing methods and digital tools to improve efficiency and capability across various programs.
- **Platform sustainment:** Developing technologies to improve the repair and maintenance of ships, submarines, and aircraft to meet fleet readiness goals.
- **Autonomous and unmanned systems:** Scaling robotic and autonomous systems and creating manufacturing processes for the production of these platforms.

Strategic Priorities and Execution

- **Speed and throughput:** Accelerating production and sustainment timelines through technology development and implementation that reduce manufacturing cycle times, increase process efficiency, and enhance throughput of naval platforms.
- **Industry partnerships:** Collaborating closely with industry partners is crucial for identifying and solving manufacturing challenges and ensuring the successful transition of new technologies.
- **Measurable impact:** Measuring success through tangible benefits like reduced cycle times, increased process yields, and a favorable return on investment for implemented projects.

Key Objectives to meet the Strategy:

- Developing enabling manufacturing technologies for implementation on weapon systems.
- Partnering with PEOs, Program Offices, and industry for successful transition and implementation.
- Continuously analyzing acquisition scenarios to identify where Navy ManTech's investments can have the most significant impact, refining the strategy as platforms mature through their acquisition cycles.
- Delivering highest impact manufacturing technologies for implementation to benefit the fleet.



Primary Platforms within the Navy ManTech Strategy



*Three of Navy ManTech's acquisition platforms: VCS, integrated warfare systems and CVN.
(Courtesy of PEO (Subs), PEO (IWS) and PEO (Aircraft Carriers))*

2026 NAVY MANTECH

POINTS OF CONTACT

Headquarters Activities

Office of Naval Research (ONR) Manufacturing Technology Program

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<https://www.onr.navy.mil/work-with-us/navy-mantech>

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HEADQUARTERS ACTIVITIES

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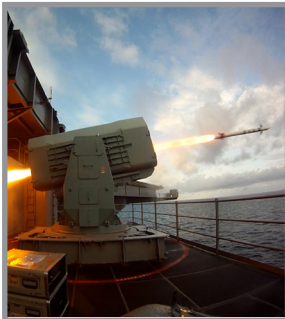


Upper bow of CVN.
(Courtesy of Huntington Ingalls Industries –
Newport News Shipbuilding)



Lower bow of CVN.
(Courtesy of Huntington Ingalls Industries –
Newport News Shipbuilding)

CENTERS OF EXCELLENCE



Left-to-right: integrated warfare systems and casting and assembly of PCU John F. Kennedy (CVN 79).
(Courtesy of U.S. Navy, PEO (Aircraft Carriers) and Huntington Ingalls Industries – Newport News Shipbuilding)

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Submarine SSN 789 rollout.
(Courtesy of Huntington Ingalls Industries -
Newport News Shipbuilding)



Transitioning Advanced Manufacturing Technology to the Fleet

Check out the Navy ManTech Project Book at
<https://www.onr.navy.mil/media/4763>
to learn more about our current project portfolio.

<https://www.onr.navy.mil/work-with-us/navy-mantech>

