

U.S. NAVY AND DEPARTMENT OF DEFENSE-SPONSORED
TECHNICAL TRAINING PROGRAMS FOR THE SHIPYARDS AND SUPPLY CHAIN



ACCELERATED
TRAINING IN DEFENSE
MANUFACTURING

POWERING AMERICA'S WORKFORCE



“The ATDM program is a game changer ... ATDM helps us to get workers through our training qualification more quickly ... it decreases our time to talent.”

– Bobby Russell, BWX Technologies



WHAT IS ATDM?

FIVE TRAINING TRACKS

- Additive Manufacturing
- CNC Machining
- Quality Control Inspection (Metrology)
- Non-destructive Testing
- Welding

RIGOROUS, FAST-TRACK TRAINING PROGRAM

- 600 hours of instruction, equivalent to a one-year certificate program at community college
- Reduces time to talent

CUSTOMIZED CURRICULUM

- With input from the Submarine Industrial Base (SIB), the curriculum is designed to meet the needs of the industry
- Graduates receive industry-recognized certifications

ADULT LEARNERS AND INCUMBENT WORKERS

- Students learn essential manufacturing skills
- ATDM will upskill your workforce

NAVY'S NATIONAL TRAINING CENTER

- ATDM program currently graduates cohorts every eight weeks with workers ready to hire
- The larger 100,000-square-foot facility will be completed in 2025 and will house all of ATDM's labs, classrooms, equipment, and operations
- 800–1,000 skilled technicians will graduate annually across three shifts

INDUSTRY READINESS / WORKFORCE SKILLS / REDUCE TIME TO TALENT

THE ATDM ADVANTAGE

ATDM is the first-of-its-kind training program in the country and is funded by the U.S. Navy. The Navy is supporting the program by locating a national training center in Danville, Va. Through our strategic partnerships with manufacturers, our students learn on state-of-the-art technology and equipment throughout their training, which makes them highly skilled for job placement. The program graduates cohorts every eight weeks with people ready to work.

ATDM instructors have decades of real-world experience with manufacturing companies and provide hands-on training to ensure our continued high graduation rates.

Currently, most students qualify for full scholarships for tuition and housing. This program is an excellent option for our retiring and non-active duty veterans as it offers a way for veterans to continue serving their country with private sector employment.

STATE-OF-THE-ART EQUIPMENT / QUALIFIED WORKERS / FULL SCHOLARSHIPS



“We need these skills in the Department of the Navy ... we need to build submarines, ships, and aircraft faster and better than ever before, and that’s one team, one fight, all of us working together as one.”

– The Honorable Carlos Del Toro,
Secretary of the Navy

“Every testimonial we’ve heard from industry partners we work with is the best quality workers showing up on day one are from ATDM.”

– U.S. Navy RADM Scott Pappano,
Program Executive Office Strategic Submarines



WHY ATDM?

U.S. NAVY AND DEPARTMENT OF DEFENSE INVESTMENT AND COMMITMENT

The U.S. Navy is on a once-in-a-generation journey to transform its nuclear-powered submarine fleet, vital to our nation's defense. ATDM is a large-scale program developed to provide training and recruitment sources for shipbuilders and their supply chain.

THE 1+2

The goal is to have one Columbia-class and two Virginia-class submarines added to its fleet each year through its SIB. It is estimated that this military mandate will require more than 100,000 skilled workers with the training and commitment to ensure success.



Manufacturing in this country is now a mere 12% of our workforce sector. Increasing skilled technicians is one of the most critical needs to achieve this goal. ATDM's curriculum is aligned with Naval Sea Systems Command (NAVSEA) standards to provide the SIB with an ongoing source of skilled technicians.

NATIONAL SECURITY / DELIVER THE 1+2 / NAVSEA STANDARDS

Pictured below (left): Rear Adm. Pappano and Secretary of the Navy Del Toro "Signing the Beam" at the U.S. Navy National Training Center groundbreaking; (right): Governor Youngkin speaking to ATDM students.



PARTNERING WITH ATDM

HIRE GRADUATES / UPSKILL EMPLOYEES / COLLABORATE



HOW TO PARTNER

SPONSOR INDIVIDUALS FOR ATDM TRAINING

- Incumbents: Upskill current workforce
- New Hires: Hire for fit, train for skill
- Conditional Pre-Hires: Employed after graduation

RECRUIT ATDM GRADUATES

- Request student resumes and interviews
- Schedule an onsite program tour and recruit students
- Participate in ATDM Career Fairs

FEEDBACK AND SURVEYS

- Curriculum expertise for the latest skills and certifications
- Current and projected demand signal
- Former graduates and current employee evaluation

STRATEGIC PARTNERS





PARTICIPATING EMPLOYERS

American Tank & Fabrication (AT&F)
AMG
Ammcon
BAE Systems
Bearon Manufacturing
(dba Penn EI Service Co)
Beehive Industries
Butler Weldments
BWX Technologies – Barberton
BWX Technologies – Euclid
BWX Technologies – Lynchburg
BWX Technologies – Mt. Vernon
Cabras Marine Corporation
Compendium Federal Technology
Craft Machine Works
Curtiss-Wright (EMD Division)
Curtiss-Wright (EMS Division)
Curtiss-Wright (SAS Division)
DC Fabricators
Defense Maritime Solutions (Wartsila)
Derbyshire Machine and Tool
DW Clark
Ellwood National Forge

The Entwistle Company – MA
The Entwistle Company – VA
Epsilon Systems
Fairbanks Morse Defense
Fairlead Integrated
Fastech LLC
Fox Valley Metal Tech
General Dynamics – Bath Iron Works
General Dynamics – Electric Boat
Granite State Manufacturing
Hi-Test Labs
Holtec International
HII/Newport News Shipbuilding
Hydrasearch
Industrial Testing Laboratory Services
IntegriTesting
Kingsbury, Inc.
Master Machine & Tool
MetalTek
MHI Ship Repair
Mid-Atlantic Regional
Maintenance Center
MISTRAS

Mitutoyo
Norfolk Naval Shipyard
Oak Ridge National Laboratory
Oceaneering International Inc.
Pegasus Steel, LLC
Phillips Corp
Philly Shipyard
Precision Custom Components
Production Engineering Corp.
Rolls-Royce
SAIC
Scot Forge
Southeast Regional Maintenance Center
Southwest Regional Maintenance Center
Timken/Philadelphia Gear
Timken/Schulz Electric
Trident Maritime Systems
(Hampton Machine Shop)
Trident Refit Facility Bangor
Trident Refit Facility Kings Bay
U.S. Coast Guard Yard
VTG Defense
W International LLC

“Newport News Shipbuilding has a priority of recruiting and hiring talented, highly skilled trades workers who design, build, and maintain the most complex ships in the world: our Nation’s nuclear-powered aircraft carriers and submarines. To accomplish our goals, we partner with local and regional workforce programs and institutions with significant training infrastructures like ATDM in Danville, Va.”

– Ryan Sparks, Huntington Ingalls/Newport News Shipbuilding



ABOUT IALR

The Institute for Advanced Learning and Research (IALR), founded in 2002, serves as a regional catalyst for economic transformation in Southern Virginia and beyond. IALR accomplishes this mission through applied research, advanced learning, economic development, manufacturing advancement, and conference services.

With a state-of-the-art campus showcasing the latest technology and stunning architecture, IALR is home to a staff of leading experts and programs. Thanks to strong partnerships and innovative resources, many of IALR's initiatives have been lauded as the new standard by state, national, and global entities and partners.

ATDM is one of the strongest examples of IALR at work. The program's mission and output align with IALR's goals of being a center of excellence for workforce development, a hub for high-tech companies, and a support for employers to become globally competitive.

For more information, visit ialr.org.





U.S. NAVY NATIONAL TRAINING CENTER

The U.S. Navy is supporting the program by building a national training center in Danville, Va. When the 100,000-square-foot facility is completed in 2025, it will house all of ATDM's operations, including labs, classrooms, and equipment, and graduate 800–1,000 skilled technicians annually across three shifts.



“Supply chain fragility is the number one risk to the Columbia SSBN program ... There is no margin in the build schedule.”

– U.S. Navy RADM Scott Pappano,
Program Executive Office
Strategic Submarines



“ATDM builds a strong core foundation in their students in machining skills and work ethics. The students come back as complete manufacturing professionals. Their machining skills are strong, but their professional skills are a positive differentiator.”

– Bobby Sodhi, Curtiss-Wright

“ATDM does an outstanding job preparing students to become top-tier contributors to the SIB workforce. We have been impressed with ATDM’s culture and training methods and prioritize their students in our talent search.”

– Paris Johnson, MISTRAS



“I am thrilled to witness the transformative impact of the Accelerated Training in Defense Manufacturing (ATDM) CNC Machining program on our team. We have sent multiple groups for this focused training, and each time, the results have been exceptional.”

– Abe Bigelow, Ellwood National Forge



**MADE POSSIBLE BY FUNDING PROVIDED BY THE
INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT (IBAS) PROGRAM
AND SUPPORTED BY NAVSEA**

Accelerated Training in Defense Manufacturing is a prototype training platform for rapidly training skilled workers in key trades such as: additive manufacturing, CNC machining, quality control inspection (metrology), non-destructive testing, and welding for employment in the defense industry. ATDM was developed as a public-private consortium between the DoD, the Institute for Advanced Learning and Research (IALR), Danville Community College (DCC), Phillips Corporation, and The Spectrum Group in consultation with the defense industry. IALR is leading a multiyear pilot project to test and evaluate ATDM as a training platform for regional training centers supporting the defense industrial base. The pilot project is funded through the National Imperative for Industrial Skills initiative launched in 2020 by the Industrial Base Analysis and Sustainment Program Office (IBAS) in the Undersecretary of Defense for Acquisition and Sustainment office.



TRAINING PROVIDER



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