

This announcement is intended to make U.S DoD industry partners aware of the significant technical facilities supporting Undersea Warfare Combat Systems at NUWCDIVNPT in Newport, RI. The facilities described herein may be made available to industry to support innovative research, development, integration, test and evaluation initiatives. They may also be of interest to businesses that are responding to other Navy solicitations. This is not a solicitation for proposals or an indication of intention to award.

The Undersea Warfare Combat Systems Department (Code 25) at the Naval Undersea Warfare Center, Division Newport operates numerous technical facilities distributed across three buildings. These unique, world-class facilities complement the expertise of our workforce resulting in a powerful technical resource that supports USW Combat System land-based prototyping, experimentation, development, integration and test, training, assessment and certification. Combined with other Division Newport facilities and campus-wide connectivity, Code 25's labs provide the core component of the Virtual Submarine and external linkages to industry via our Wide Area Integration Facility (WAIF). This connectivity facilitates partnerships with these entities in promoting efficient development and integration of new capabilities.

The Code 25 laboratories provide resident capability for all combat control system variants and weapons launch systems for all in-service US submarines. In addition there is a network of Submarine Warfare Federated Tactical System (SWFTS) and Non-Propulsion Electronic System (NPES) sub-systems that facilitate end-to-end high-fidelity test and evaluation tasks. Resident sub-systems include:

- Navigation
- Radar/Voyage Management System
- GCCS-M
- TTWCS and Tomahawk Command and Control System
- CANES/SubLAN
- TacLAN
- Imaging
- SSBN/SSGN-unique subsystems
- Communications/Radio Room

Code 25's labs also possess development and integration facilities for submarine combat system trainers, including the Submarine Bridge Trainer (SBT) Submarine Multi-Mission Team Trainer (SMMTT), virtual Tactical Attack Center (vTAC) as well as facilities for the development of the SEAWARE Learning Management System (LMS) and in-service support of the SOBT program.

The department's SubLAN laboratory supports development of SubLAN upgrades, integration of SubLAN user and required applications, and production of SubLAN builds for submarine integration and ISEA support. With the advent of submarine CANES, the SubLAN footprint will expand to support Code 25's development and integration roles.

The Wide Area Integration Facility (WAIF) provides a network capability to remotely conduct early system integration and system of systems testing and troubleshooting utilizing a secure, large bandwidth connection between numerous remote contractor and government sites along the east coast. These sites include NUWC Newport RI, Electric Boat in Groton CT, Lockheed Martin Manassas VA, General Dynamics Advanced Information Systems in Pittsfield MA and Fairfax VA, and Progeny in Groton CT and Manassas VA.

As previously stated, Code 25's combination of co-located tactical combat systems and sub-systems (and high fidelity weapon and environment simulations) form a critical portion of the NUWCDIVNPT Virtual Submarine initiative, providing connectivity to remote laboratories and systems both internal and external to NUWCDIVNPT. These remote connections facilitate operations ranging from science and technology initiatives to tactical system integration, testing, and Fleet support. The Virtual Submarine network connects all available remote tactical subsystems including Electronic Warfare, Common Submarine Radio Room, Sonar and various sensors.

For more detailed information please visit <https://aimtc2.nuwc.navy.mil/knowledgeTree>. A government issued PKI certificate is required for access to this site. Questions regarding this announcement may be addressed to Mr. Ed Rishmany at edward.rishmany@navy.mil or (401) 832-8989.