Carderock

Naval Sea Systems Command

Warfare Centers

NAVSEA
WARFARE CENTERS

Carderock Division

Naval Sea Systems Command
Warfare Centers

Naval Surface Warfare Center (NSWC) Carderock is the Navy's center of excellence for ships and ship systems. For over 100 years, Carderock has helped preserve and enhance the nation's presence on and under the seas. Carderock is the full-spectrum research and development, test and evaluation, engineering, and Fleet support organization for the Navy's ships, submarine, military watercraft, and unmanned vehicles with insight into new concepts and technologies for the Navy Fleet of the 21st Century. The Division's expertise spans more than 40 disciplines, from electrical and mechanical engineering to computer engineering and physics.

Carderock specializes in Ship Design & Integration; Environmental Quality Systems; Hull Forms & Propulsors; Structures and Materials; Signatures, Silencing Systems, and Susceptibility; Machinery Systems; and Vulnerability and Survivability Systems.

Most of the work is concentrated at two major sites: our headquarters in West Bethesda, Maryland, and Philadelphia, Pennsylvania. The latter site is recognized as the Navy's center of excellence for shipboard machinery. Carderock Division's unique laboratories, modeling and simulation facilities, at-sea-assets, and large-scale, land-based engineering and test sites at nine locations across the country contribute to the full-spectrum nature of our mission.

Navy and maritime communities have come to depend on our expertise and innovative spirit in developing advanced platforms and systems, enhancing naval performance, reducing operating costs, and addressing the Navy's evolving mission.

Carderock Division will continue to solve challenging engineering problems to meet future Fleet needs in the following areas: new hull forms, unmanned vehicles, all-electric warships, increased stealth, improved survivability, reduced manning, human systems integration, and high-speed ships.

Mission
Provide research, development, test and evaluation, analysis, acquisition support, in-service engineering, logistics and integration of surface and undersea vehicles and associated systems. Develop and apply science and technology associated with naval architecture and marine engineering, and provide support to the maritime industry. Execute other responsibilities as assigned by the Commander, Naval Surface Warfare Center.

Vision
To ensure U.S. naval supremacy through advanced ships and ship systems that are innovative, adaptable, and affordable.

For additional information, please contact:
Congressional and Public Affairs Office
9500 MacArthur Blvd
West Bethesda, MD 20817-5700
Phone: (301) 227-4465
Web: www.dt.navy.mil
Email: CRDIVCPAO@navy.mil

For employment opportunities, please send your resume to:
College Recruiting and Outreach
NSWC Carderock Division
5001 South Broad Street
Workforce Management Branch, Recruiting
Philadelphia, PA 19112-1403
215-897-7731
recruitment@navy.mil

Technical Capabilities
- Ship and Submarine Design and Integration
- Ship and Submarine Acquisition Engineering
- Ship and Submarine Systems Concepts, Technologies, and Processes
- Surface & Undersea Vehicle Machinery Systems Integration (Phil.)
- Combatant Craft & Marine Corps Vehicles
- Unmanned Vehicles Naval Architecture and Marine Engineering
- Hull Forms and Fluid Dynamics
- Propulsors
- Surface & Undersea Vehicle Mechanical Power & Propulsion Systems (Phil.)
- Surface & Undersea Vehicle Electrical Power & Propulsion Systems (Phil.)
- Surface & Undersea Vehicle Auxiliary Machinery Systems (Phil.)
- Surface & Undersea Vehicle Hull, Deck, and Habitability Machinery Systems (Phil.)
- Surface & Undersea Vehicle Machinery Automation, Controls, Sensors and Network Systems (Phil.)
- Surface, Undersea, and Weapon Vehicle Materials
- Surface & Undersea Vehicle Structures
- Alternative Energy & Power Sources R&D
- Liquid Waste Management, Science and Systems
- Solid Waste, Hazardous Material, and Radiation Technology Management, Science and Systems
- Advanced Logistics Concepts and HM&E Life Cycle Logistics Support
- Surface, Undersea and USMC Vehicle Vulnerability Reduction and Protection
- Ship Recoverability and Damage Control
- Surface and Undersea Vehicle Underwater Signatures, Silencing Systems, and Susceptibility
- Surface and Undersea Vehicle Non-Acoustic Topside Signatures, Silencing Systems, and Susceptibility
- HM&E for Undersea Vehicle Sail Systems and Deployed Systems

Major Facilities
- David Taylor Model Basin
- Maneuvering and Seakeeping Facility
- Large Cavitation Channel
- Anechoic Flow Facility
- Structure Evaluation Laboratory
- Explosives Test Pond
- Ship Materials Technology Center
- Magnetic Fields Laboratory
- Southeast Alaska Acoustic Measurement Facility
- South Florida Testing Facility
- Ship Systems Engineering Facility
- Propulsion System Research and Test Facility
- Machinery Research Complex
- Machinery Engineering Complex

Carderock Division Sites

Approved for public release; distribution is unlimited.