Naval Surface Warfare Center (NSWC) Carderock Division 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, submarines, 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 naval architecture and marine engineering to electrical and mechanical engineering to computer engineering and physics.

Carderock specializes in ship design and integration; environmental quality systems; hull forms and propulsors; structures and materials; signatures, silencing systems, and survivibility systems.

Most of the work is concentrated at one major site: our headquarters in West Bethesda, Maryland. Carderock Division's unique laboratories, modeling and simulation facilities, at-sea-assets, and large-scale, land-based engineering and test sites at seven 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**

To provide full-spectrum research and development, test and evaluation, analyses, acquisition, and Fleet support for the Navy's ships, ship systems, and associated Navy logistics systems. Specific emphasis is to provide the core technical capabilities required for the integration of surface and undersea vehicles and associated systems, to develop and apply science and technology associated with naval architecture and marine engineering, and to provide support to the maritime industry.

**Vision**

To be the Navy's trusted partner for identifying and providing world-class, innovative, and cost-effective solutions for advanced ship and ship systems, for providing technical solutions to the warfighter and to keep our Fleet at sea.

**Thrust Areas**

- Surface Ship Design
- Submarine Design
- Ship Design Tools
- Rapid Prototyping & Experimentation
- Workforce Retention & Development

- Advanced Signatures
- Power and Energy
- Unmanned Systems
- Additive Manufacturing
- Cybersecurity

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