NAVSEA
WARFARE CENTERS
Carderock

# JOIN OUR TEAM

NAVSEA WARFARE CENTERS
ONE TEAM
EXPAND the ADVANTAGE
*Enabling Maritime Superiority Today, Tomorrow, and the Navy After Next*

Naval Surface Warfare Center (NSWC), Carderock Division offers innovative, exciting and meaningful work in supporting U.S. Navy ships and submarines. The Department of the Navy provides competitive salaries, benefits, and extensive professional development and training. The careers and opportunities to make a difference at Carderock are endless.

Carderock is the Navy's trusted partner for identifying and providing world-class, cost-effective, and innovative technical solutions for advanced ships and ship systems, enabling the warfighter to execute their missions and maintain their technical edge.

# About Carderock Division

NSWC Carderock Division – headquartered in West Bethesda, Maryland, with seven detachment locations across the country – consists of more than 2,600 scientists, engineers and support personnel working in disciplines ranging from fundamental science to applied / in-service engineering. Our command is part of the Naval Sea Systems Command (NAVSEA) Warfare Centers, and is the Navy's center of excellence for ships and ship systems.

For more than 100 years, NSWC Carderock Division has helped preserve and enhance the nation's presence on and under the seas.

NSWC Carderock Division 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 diverse technologies for the Navy fleet of the 21st Century. NSWC Carderock Division's expertise spans from naval architecture and marine engineering, to electrical and mechanical engineering, to computer engineering and physics. NSWC Carderock Division specializes in ship design and integration; environmental quality systems; hull forms and propulsors; structures and materials; signatures, silencing systems, and susceptibility; and vulnerability and survivability systems.

NSWC Carderock Division's unique laboratories, modeling and simulation facilities, at-sea-assets, and large-scale, land-based engineering and test 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, integrating new technologies, and reducing operating costs. NSWC Carderock Division will continue to solve challenging engineering problems to meet future fleet needs.

Our mission is 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.

- NSWC Carderock Division is one of 10 Warfare Center Divisions within the Naval Sea Systems Command (NAVSEA).
- NSWC Carderock Division is the largest, most comprehensive establishment of its kind in the world, serving a dual role in support of both our U.S. naval forces and the maritime industry.
- NSWC Carderock Division hosts the International Human Powered Submarine Races (ISR) in their 3,200-foot David W. Taylor Model Basin.

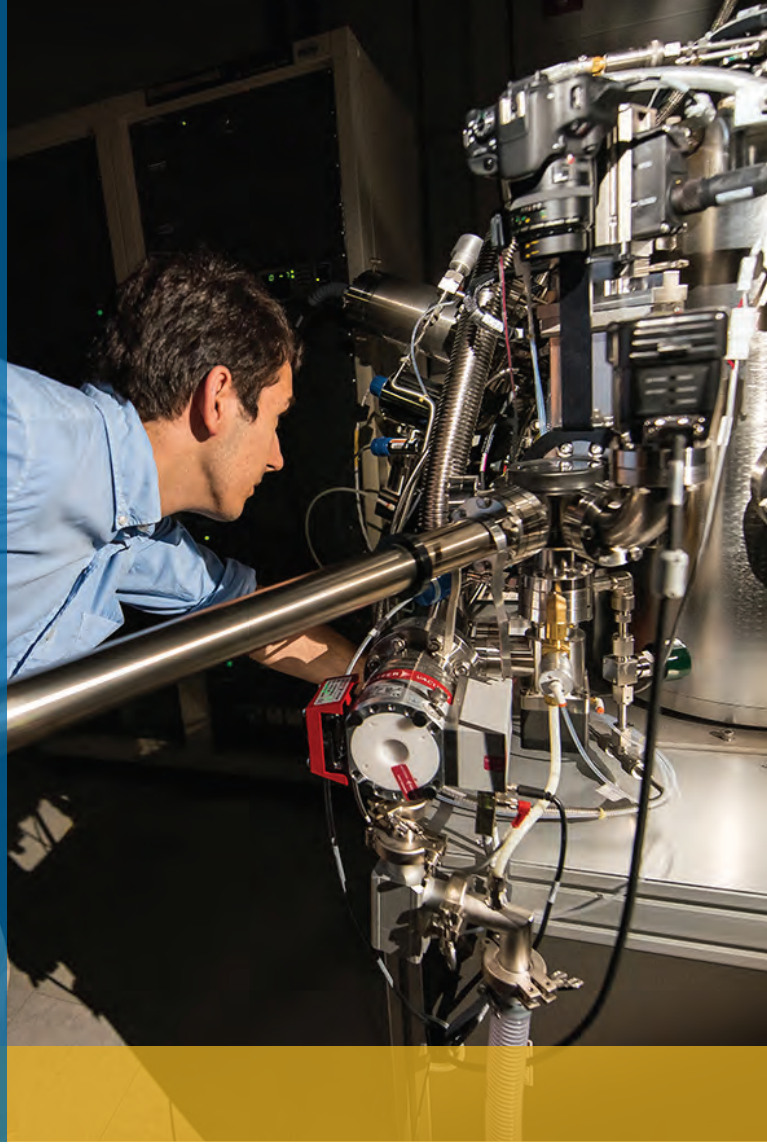
## CORE COMPETENCIES:

- Ship Integration and Design
- Environmental Quality Systems
- Naval Architecture, including Hull Forms and Propulsors
- Structures and Materials
- Signatures and Silencing Systems
- Vulnerability and Survivability Systems

## FACILITIES AND LABORATORIES:

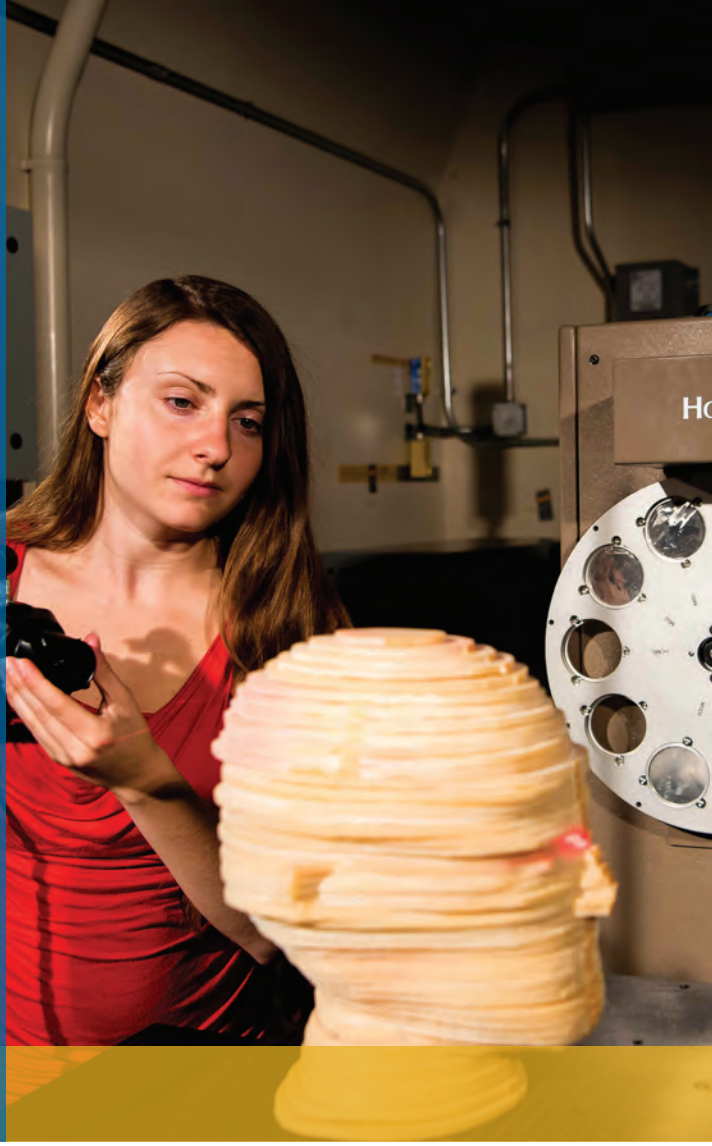
- Acoustic Research Detachment
- Center for Innovation in Ship Development
- Circulating Water Channel
- Combatant Craft Division
- Compressed Air System Facility
- David W. Taylor Model Basin
- Environmental Protection Laboratories
- Large Cavitation Channel (LCC)
- Magnetic Fields Laboratory
- Magnetic Materials Laboratory
- Maneuvering and Seakeeping Basin (MASK)
- Rotating Arm Facility
- Subsonic Wind Tunnel
- Welding Process and Consumable Development Laboratories

For a full list of NSWC Carderock Division facilities and laboratories, visit: *https://www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Carderock/What-We-Do/Laboratories-and-Research-Facilities/List-of-Laboratories-and-Research-Facilities/*



## *Career Opportunities*

NSWC Carderock Division addresses the full spectrum of applied maritime science and technology, from the theoretical and conceptual beginnings, through design and acquisition, to implementation and follow-on engineering. The Division houses world-class facilities and laboratories and employs scientists, engineers, and support personnel working in more than 40 disciplines.

## *Civilian Technical and Business Opportunities*

As a major component and field activity of NAVSEA, NSWC Carderock Division provides cradle-to-grave support for its technical products over an enormous range of scientific areas related to surface and undersea platforms. This includes all technical aspects of improving the performance of ships, submarines, military watercraft and unmanned vehicles, as well as research for military logistics systems.

# *Scientists and Engineers*

Hiring scientists and engineers (from bachelor to doctoral) in a variety of disciplines:

## NAVAL ARCHITECTURE

Naval Architects – and engineers in related technical fields – provide quality naval architectural and ship design services to Navy and non-Navy customers by developing and maintaining ship design tools; researching, developing, and assessing ship concepts and related technologies; and supplying ship design products. Specialty areas include weight and stability, ship arrangements, human systems integration, RMA, habitability and systems safety.

## AEROSPACE

Applying basic aeromechanics and hydro-mechanics and related technologies toward the design, development, and evaluation of naval and aviation systems including special devices and the solutions of Navy, industrial, and maritime problems.

## MATERIALS

Materials Engineers cover the full spectrum from research, concepts, development, and testing to application of metallic and non-metallic materials for Navy ships, submarines, and Marine Corps ground vehicle and weapon systems. Materials Engineers work on projects involving materials and fabrication processes, advanced manufacturing technology, engineering mechanics and fitness for purpose analysis, chemical formulation, testing and characterization of metallic and nonmetallic materials, and prototype fabrication and testing of ship systems and components. This includes alloy development, forming, joining, mechanical property testing and prediction, optical and electron microscopy, polymer matrix composite materials and processing, corrosion, signature control materials, ceramic and magnetic materials, coatings and corrosion control, additive manufacturing, integrated computational materials engineering, digital design, and power system materials.

## ENVIRONMENTAL

Environmental engineers work in programs supporting the design, development, and testing of state-of-the-art equipment and systems for efficient and effective use within the constraints of the unique shipboard operating environment; integrating the latest in chemical and physical processes for the management and treatment of wastes and materials technology and fabrication methods. Environmental engineers work both ashore and at-sea in program technical areas to include solid waste, medical waste, oily wastewater, blackwater, graywater, ballast water, and hazardous materials control and management.

## ELECTRICAL

Electrical engineers develop and evaluate power and energy technologies to be used in applications requiring portable power, and coordination of and expertise with battery safety and power generation technologies for Navy systems. The individual would work in programs supporting the design, development, and testing of state-of-the-art equipment and systems for efficient and effective use within the constraints of the unique shipboard and marine expeditionary operating environments; integrating the latest technologies.

## SOFTWARE DEVELOPERS

Software Developers combine real-world physics modeling, real-time high-performance computing, leading edge software design, and sophisticated simulations to produce immersive training and tactical systems for the U.S. Navy.

- Computer Science
- Computer Engineering
- Systems Engineering
- Applied Mathematics
- Applied Physics

## OTHER CARDEROCK ENGINEERING FIELDS

- Industrial Engineering
- Ocean Engineering
- Civil Engineering
- Mechanical Engineering
- Chemical Engineering

# *Professionals*

## BUSINESS OFFICES

In addition to three technical departments, NSWC Carderock Division has three business and finance departments: Comptroller, Contracting and Acquisition, and Corporate Operations that provide a wide variety of support functions and services.

**Comptroller Department**

The Comptroller Department provides fiduciary oversight for fiscal operations; fiscal advice and consultation to the command leadership, department heads, and managers; and a full spectrum of financial management and fiscal services. Typical career specialists sought include:

- Budget Formulation / Execution
- Accounting
- Travel
- Timekeeping / Payroll

**Contracting and Acquisition Department**

The Contracting and Acquisition Department provides acquisition products and services to the Division while simultaneously satisfying public policy objectives. Typical career specialists sought include:

- Purchase Card Management
- Policy / Self-Assessment
- Contracting Officer Representative (COR) Oversight

**Corporate Operations Department**

The Corporate Operations Department provides timely and cost-efficient business, tactical and strategic services to the Division and its technical departments. Typical skilled trade workers and career specialists sought include:

- Human Resources
- Information Assurance / Information Technology
- Compliance
- Cybersecurity
- Security
- Safety
- Environmental Safety
- Facilities Support

## SKILLED TRADES

The work at NSWC Carderock Division requires all levels of skilled workers in specific trades:

- Metal Workers
- Machinists
- Technicians

## COMMAND STAFF

NSWC Carderock Division command staff includes Strategic Planning office; Technology and Innovation office; Quality Management; Office of Counsel; Small Business Office; and others. Typical career specialists sought include:

- Legal
- Quality Assurance
- Customer Advocates
- STEM and Outreach Support
- Administrative Officers

# *Employee Benefits*

Pay is only part of the compensation you will earn working for the Department of the Navy. We offer a broad array of benefits programs and family-friendly flexibilities to meet the needs of you and your family.

Some of the advantages of working at NSWC Carderock Division are:

## COMPETITIVE COMPENSATION

## JOB SECURITY

## ADVANCEMENT OPPORTUNITIES

- Graduate Education Program
- Opportunity for Rapid 6-Month Accelerated Program
- Scientists and Engineering Development Programs

## TELEWORK

- Employees who are telework eligible may discuss telework with their supervisor

## WORK SCHEDULING

- Flexible Work Schedule - Employees work all ten days during the pay period with flexible work hours
- Compressed Work Schedule - A compressed schedule included eight nine-hour days and one eight hour day with one day off every two weeks
- Job Rotations

## OVERTIME

- Paid Overtime and Compensatory Time for hours exceeding an 80-hour pay period

## PAID TIME OFF

- 10 Paid Holidays per year
- 13 Days Sick Leave per year which can be accumulated
  - Federal workers can earn 13 days of sick leave per year at a rate of four hours every two weeks
  - No limit to amount of sick leave that can be accumulated
  - Unused sick leave can be carried into subsequent years and accumulated during the entire year of employment
  - Portion of accumulated sick leave will be calculated into retirement as years or service
- Annual Leave
  - Depending on time in service, federal workers earn between 13 and 26 days of Annual Paid Leave per year

## HEALTH INSURANCE

- Nationally recognized model offering 200+ health plan options throughout the United States
- Many health plans are available for coverage
- Most employees pay only one-fourth of total health benefit costs, depending on the plan selected
- Annual “open season” periods permit enrollment changes

## RETIREMENT COVERAGE

- Retirement annuity for life beginning as early as age 55
- Benefits based on length of service and salary
- Military service may be credited toward FERS (deposit required)
- Vesting after 5 years of creditable civilian service
- Eligibility for survivor and disability benefits after 18 months of civilian service
- Earn Social Security Credit

## LIFE INSURANCE

- Most civilian employees are eligible to participate in the Basic Life and other additional options offered by FEGLI
- Basic insurance premiums are shared by the employee and the government based on the insurance amount

## TUITION REIMBURSEMENT

- Activities may pay all (or part) of the necessary expenses of training – including the costs of college tuition for training and education – to improve an employee’s performance of his or her official duties

## STUDENT LOAN REPAYMENT PROGRAM

- Activities may repay student loans up to annual limits

## THRIFT SAVINGS PLAN (TSP)

- Tax-deferred retirement savings and investment plan
- Employees offered same type of savings and tax benefits that many private corporations offer employees under 401K plan
- By participating in the TSP, employees have the opportunity to save part of their income for retirement
- Receive matching agency contributions which reduces current taxes in TSP
- All federal employees covered by FERS are eligible to participate in the TSP when hired
- Once eligible to participate in TSP, there are three types of contributions that may be made to their account:

  (1) agency Automatic 1% contributions

  (2) employee contributions

  (3) agency matching contributions

## ADDITIONAL BENEFITS

- Close to Washington, D.C.
- Fitness Centers
- Cafeteria
- New Hire Bridge
- Combined Federal Campaign
- Across the street from Great Falls

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