Our Mission

• We are the Navy’s principal provider of hull, mechanical and electrical expertise

• We deliver technical solutions in Naval Architecture and Marine Engineering to develop, build and maintain a dominant, ready and affordable fleet

• We provide people, facilities and tools across the full spectrum of the acquisition lifecycle

We do things for the war fighter that industry can’t, won’t, or shouldn’t do
Our Chain of Command

Chief of Naval Operations
ADM Jonathan Greenert

Navy Acquisition Executive
ASN (RD&A)

Naval Sea Systems Command
VADM William Hilarides

Program Executive Officers

Naval Surface Warfare Center
RDML Lorin Selby

Carderock
Philadelphia
Dahlgren
Dam Neck
Indian Head Explosive Ordnance Disposal Technology
Crane
Panama City
Corona
Port Hueneme

Naval Undersea Warfare Center
RDML(S) Moises DelToro, III

Keyport
Newport
Naval Sea Logistics Center (NSLC)
Survivability, Structures, Materials and Environmental Department

- **Survivability and recoverability** expertise to provide combat-ready platforms able to sustain damage and continue the mission while fighting damaged.

- **Structural** (including composites) design, analysis and physical scale modeling to ensure design criteria will meet operational and mission needs.

- Metallic and non-metallic alloy selection, processing and repair techniques, corrosion mitigation to ensure cost-effective maintenance spanning the full operational life-cycle.

- **Regulatory compliance and pollution prevention**, solid and liquid waste management and treatment, hazardous waste management and disposal, and system safety.

**Hull Pressure Testing**  
**Finite Element Analysis**  
**Explosives Test Pond**

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• Provide an advantage for the Navy’s ships, submarines, craft, and vehicles in acoustics, electro-magnetics, radar, infra-red, and emerging threat signatures

• Conduct modeling & simulation and scale model & full scale testing using unique world class facilities

• Large, diverse and talented staff of scientists and engineers. Full spectrum of technical support from requirements setting and R&D through acquisition support and direct fleet support
Naval Architecture of Ships, Submarines, Boats & Craft, and other Naval Systems

- early concept/design development and trade-off studies through cost analysis, detailed hydrodynamic and propulsor design, maneuvering and ship control, model testing, internal arrangements, ship systems integration, full-scale trials and operation.
Naval Surface Warfare Center

Machinery Research and Engineering Department

- Provides full spectrum support for Science & Technology, Research & Development and Testing & Evaluation
- Provides Life Cycle Engineering Support
- Operates Labs and Test Facilities
  - Propulsion and Power Systems
  - Auxiliary and Life Support Systems
  - Machinery Network, Sensors, and Data Systems
  - Cargo, Weapons Handling and Hull Systems
  - Undersea Vehicle Sail and Deployed Systems

DDG 51 Land Based Engineering Site

Aircraft Carrier Elevator Test Site

DDG 1000 Land Based Test Site
Cradle to Grave Support

- Hydrodynamics, Ship Control and Propulsors
- Survivability/Shock, Materials, Structures and Environmental Systems
- Signatures and Silencing Systems
- Electric Power & Propulsion, Auxiliaries, Machinery Controls and Networks, and Sail Systems
- Cost Engineering
- Talented people and world class facilities
- Center of Excellence for hull, mechanical and electrical systems

Providing technical solutions for today’s Navy