We research, develop, test, evaluate, engineer, analyze, and deliver undersea warfare capabilities to expand United States Navy readiness.

**PEOPLE**
Empower our diverse team of world-class professionals.

**PROCESS**
Optimize speed, agility, and rigor of our technical and business processes.

**RESULTS**
Ensure fleet readiness today and innovate for next generation systems tomorrow.
Strategic Alignment

Drivers

Today’s Navy/
The Navy in Operation
Customer Tasking from PEOs, Urgent Fleet Needs

Tomorrow’s Navy/
The Navy in Construction
ONR, DARPA, NR&DE Rapid Prototyping, etc

Navy After Next/
The Navy in Planning
Future Capability Requirements from DoN S&T and RDT&E 30-Year Strategic Plan

Enabling Technologies

Product Line Visions

Long Range Development Plans

Get Faster to Expand the Advantage

Increase Partnerships
Promote Collaboration
Increase S&T Innovation
Maximize use of Rapid Contract Vehicles

Drivers

Today’s Navy/
The Navy in Operation
Customer Tasking from PEOs, Urgent Fleet Needs

Tomorrow’s Navy/
The Navy in Construction
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Navy After Next/
The Navy in Planning
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Division Strategic Guidance

Undersea Superiority Today and Tomorrow
We research, develop, test, evaluate, engineer, analyze, and deliver undersea warfare capabilities to expand United States Navy readiness

Enabling Technologies

Product Line Visions

Long Range Development Plans

Get Faster to Expand the Advantage
NUWC Impact On Southern New England

- 5,875 Total Work Years, (Gov’t and Contracted)
- $1,122M Total Funding
- $713M to local economy for payroll, contracts, construction, and services purchased

608

2,980 Personnel in SE New England

181

2,236

### Total Employment by Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Civil Service</th>
<th>Contract WYs*</th>
<th>Est Overall Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering/Science</td>
<td>2,387</td>
<td>779</td>
<td>3166</td>
</tr>
<tr>
<td>Technical Support</td>
<td>226</td>
<td>637</td>
<td>863</td>
</tr>
<tr>
<td>Professional Administrative</td>
<td>582</td>
<td>829</td>
<td>1411</td>
</tr>
<tr>
<td>Administrative Support</td>
<td>34</td>
<td>108</td>
<td>44</td>
</tr>
<tr>
<td>Clerical</td>
<td>37</td>
<td>105</td>
<td>142</td>
</tr>
<tr>
<td>Wage Grade/Other</td>
<td>1</td>
<td>85</td>
<td>86</td>
</tr>
<tr>
<td>Students</td>
<td>65</td>
<td>0</td>
<td>65</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,332</strong></td>
<td><strong>2,543</strong></td>
<td><strong>5,875</strong></td>
</tr>
</tbody>
</table>

Data as of 9/30/2018

*Data as of 9/30/2017

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The Bridge to the Fleet

End-to-End Perspective – over 740 Projects in FY18

<table>
<thead>
<tr>
<th>Concept Development</th>
<th>Smart Buyer</th>
<th>In-Service Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warfare Analysis (Modeling and Simulation)</td>
<td>Assessment of Alternatives / Modeling &amp; Simulation</td>
<td>Test &amp; Evaluation</td>
</tr>
<tr>
<td>Technology Development / Refinement</td>
<td>Technical Direction / Advisor</td>
<td>Operational Performance Assessment</td>
</tr>
<tr>
<td>Prototyping / Proof of Concept</td>
<td>Development Support / IPT</td>
<td>Technical Assists</td>
</tr>
<tr>
<td>Requirements Definition</td>
<td>Test &amp; Evaluation</td>
<td>Maintenance Support</td>
</tr>
<tr>
<td>Test &amp; Evaluation</td>
<td>Training</td>
<td>Modernization Requirements</td>
</tr>
</tbody>
</table>

Technical Role in all Areas Allow Us to Fulfill Our Mission

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Roles and Responsibilities

**Contracting Officer Representatives (CORs)**
- Provides oversight on contract execution to ensure the government receives the expected value for the services.
- Observe, Document, and Communicate contractor performance to the Procurement Contracting Officer (PCO) and contractor.
- Gives the KO the authority to obligate the Government, award contracts, and direct the contractor.
- Liaison on technical matters between the PCO and the contractor.
- Support the mission and recommend changes.

**Technical Department Acquisition Advocates (TDAAs)**
- The Department's Project Manager for commercial acquisition requirements.
- Organizes all Department resources to ensure commitments are met.
- Serves as the Department's Central Point of Contact for members of the Acquisition Team(s) that are external to the Department.

**Customer Advocates (CAs)**
- The Navy’s smart buyer and honest broker.
- The primary interface with the customer’s office from negotiating tasking, reporting technical and financial status, and addressing complaints.

**Technical Warrant Holders (TWHs)**
- The Navy’s top level of technical authority.
- Has direct roles and responsibilities associated with senior level technical authority matters.
- Conveys exact requirements, standards, and needs to sponsors and industry partners.

**Technical Project Managers (TPMs)**
- Balances the cost, schedule, and performance of programs and projects.
- Oversees and is accountable for direct technical execution and project management to accomplish the works.
Update on NUWC OTA - Undersea Technology Innovation Consortium (UTIC)

- Notice of OTA Award to UTIC – 4 June 2018
- Formal Solicitation of 1st Round of Topics (8) released on 25 July 2018 with contract award target date of 30 SEP 2018
  - 5 of the 8 topics have been or will be awarded/funded shortly. The remaining 3 topics received acceptable proposals but have been placed “in the basket” pending program refinement.
  - Value of Round 1 awards ~$35M
  - Details of each award will be forthcoming pending official announcement and notifications
- UTIC membership currently 175 companies - (71% of companies are non-traditional)
- Annual Industry Day cadence: October and April

- 1st UTIC Industry Day –17 October 2018 – Cambria Hotel/Conference Center, Middletown, RI
  - Capacity crowd of 240 UTIC members attended
  - Round 2 - 23 topics presented by government POC’s (Newport, Panama City, Crane, Corona, SOCOM)
  - Open communication on-going with Industry and Gov’t
  - Formal Request for Prototype Project (RPP) scheduled to be released December 2018 with anticipated award by MAR 2019

- Interested? .... Visit www.underseatech.org for details on how to join and learn more about the OTA and the 25 technology areas supporting Undersea Technology and Innovative Maritime Systems
Rapid Contracting Vehicles

UTIC Members – 175 Members

- 71% nontraditional
- 67% small business
- 28% large business
- 5% academia/nonprofit
Rapid Contracting Vehicles

Division Newport Rapid Prototyping – Indefinite Delivery/Indefinite Quantity (IDIQ)

• UUV Family of Systems (FoS) - Code 85
  – Awarded July 2018 to 23 Prime Contractors
    • Multiple Award IDIQ valued at $794 million
  – Increased demand for unmanned and autonomous systems prototyping and experimentation.
  – Contractual method to rapidly procure materials and services used to design, build, fabricate, prototype, test, maintain and support multiple variants of UUV systems and subsystems.
  – Unique aspects of acquisition strategy:
    • Allowed for offerors to propose at the functional area level
    • Nine Year Contract (5 year base with 4 year option period)
    • On-ramps at Years 3 and 6 to refresh prime contractor pool
    • Subcontracting at Task/Delivery Order level

• Code 85 is also looking at an Undersea Weapons and Defensive Systems FoS requirement
  – Systems and subsystems required to support the advancement of the Undersea Weapons and Undersea Defensive Family of Systems
    • Currently Pre-Acquisition Plan Approval
Rapid Contracting Vehicles

Division Newport Rapid Prototyping – Indefinite Delivery/Indefinite Quantity (IDIQ)

• Other Department-Specific Vehicles in Process
  – Code 15
    • Multiple Award IDIQ for the development, fabrication, and testing of prototypes associated with the full breadth of Code 15's programs.

  – Code 40
    • Multiple Award IDIQ for the development, fabrication, and testing of prototypes associated with the full breadth of Code 40's programs including systems/subsystems, ancillary and peculiar support equipment, and associated capabilities
    • These material solutions are intended to allow Code 40 to develop a sufficient understanding of alternative solution sets that are deemed critical in providing accelerated operational capability or in response to an identified emergent threat.
Collaboration Fuels USW Innovation

**DoD Partners**
- Stable, Long Term Investments
  - Stewardships
- High Risk, High Payoff R&D

**Academia**
- Basic Research, Fundamental Ideas, Scientific Talent Pool
  - 41 Active Educational Partnership Agreements

**Global Presence**
- 198 Reps Worldwide
  - 184 at Detachments/On-Site Offices and In-Service Engineering Agents
  - 14 Field Team Positions

**Industry**
- Demo/Validation, Production
  - 91 Active Cooperative Research & Development Agreements (CRADA) and additional ones in progress
  - 63 Small Business Innovation Research (SBIR) TPOCs
  - 35% Contracts to Small Businesses

**International Components**
- Foreign Military Sales
  - 52 S&T Engagements in 11 Countries
  - 127 FMS Cases in 16 Countries
- Armament Cooperation Programs
- Data Exchange Agreements
- Technical Cooperation Programs
- Cooperative Research and Development Programs
Annual Naval Technology Exercise (ANTX)

Fourth Annual Collaborative Exercise

ANTX 2018 27 - 31 August 2018

Theme: Human Machine Integration (HMI)
- Collaboration with the Southeastern New England Defense Industry Alliance (SENEDIA) Defense Innovation Days
- Partnership with the Naval Meteorology and Oceanography Command (CNMOC) in Stennis, Mississippi
- Planning for ANTX 2019 underway

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BY THE NUMBERS

25 COMMAND & CONTROL STATIONS
5 REMOTELY OPERATED VEHICLES
3 AUTONOMOUS ENERGY SYSTEMS
2 GLIDERS

2 MARITIME SWARMS
17 UNMANNED UNDERSEA VEHICLES
30 TECHNOLOGY EXERCISES

5 OPERATIONAL NAVY PARTNERS
1 FOCUS “HUMAN MACHINE INTERACTION”

29 RETURNING ANTX PARTICIPANTS

6 UNMANNED SURFACE VEHICLES
3 DAYS

55 INDUSTRY, ACADEMIA, & GOVERNMENT PARTICIPANTS

2 INDUSTRY CONSORTIUM PARTNERS
3 UNMANNED AERIAL SYSTEMS

3 LASER SYSTEMS

2 MANNED AIRCRAFT

3 ARTIFICIAL INTELLIGENCE SYSTEMS

29 – 31 AUGUST 2018

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Initial Planning has begun for ANTX 2019 which coincides with the 150th year anniversary of NUWC Newport

Expected to be a 2-day event

Anticipate Pre-ANTX events leading up to the Waterfront Days

Continued Partnership with the Naval Meteorology and Oceanography Command (CNMOC) in Stennis, Mississippi