



Naval Information Warfare Center Atlantic

CAPT Wesley S. Sanders, USN
Commanding Officer

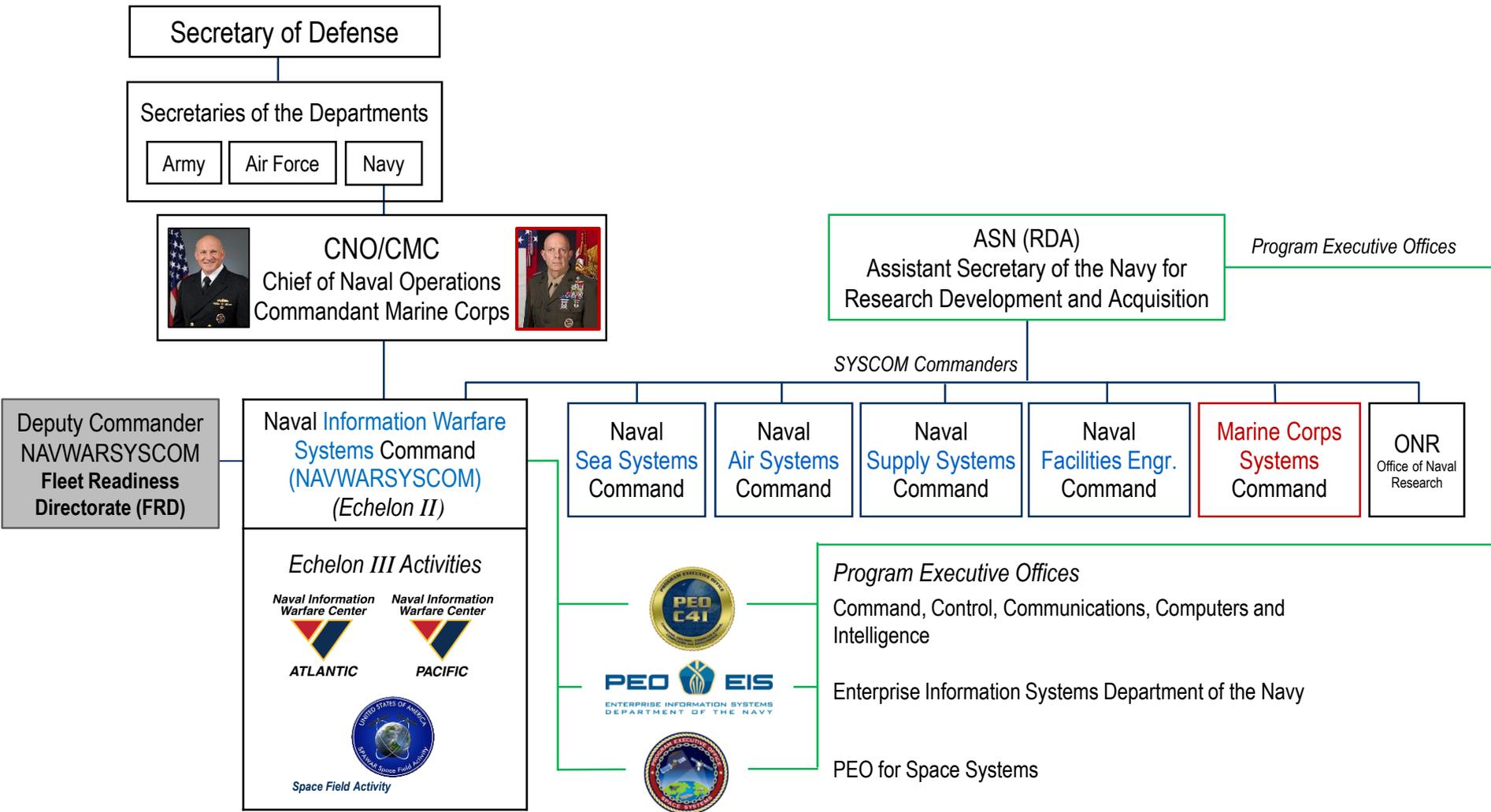
Mr. Peter C. Reddy, SES
Executive Director

NIWC Atlantic

Mission: Serving our Nation by delivering information warfare solutions that protect national security. Includes: communication systems (radios), networking systems (routers/switches), cyber operations (red team/forensics/ network defense), intelligence, surveillance, reconnaissance (sensors/decision support applications), business systems (benefits/personnel) and information security.



NAVWAR in the Department of the Navy Structure

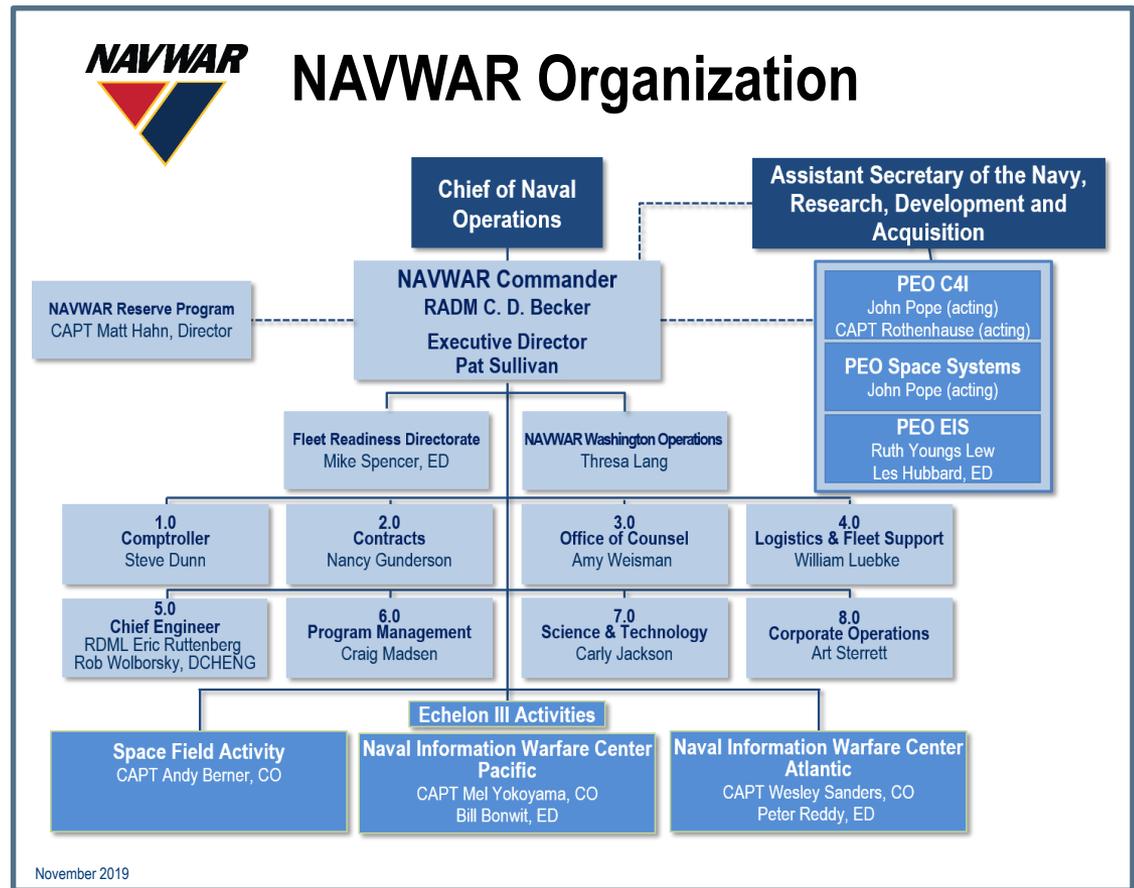


SPAWAR Changes name to Naval Information Warfare Systems Command (NAVWARSYSCOM)

June 3, 2019

Aligns Identity with Mission “This new name more accurately describes the full totality of the mission, supporting naval warfare -- from seabed to space.” – *ADM Richardson*

“In this era of great power competition, **information is a fundamental element of warfare**, an essential concept of the Navy’s strategy, and a **warfare area that transcends the traditional domains of air, sea, land and space**. This name change **underscores the importance of information warfare** in providing our fleet with an unfair advantage in today’s complex and increasingly competitive security environment.” – *RADM Becker*

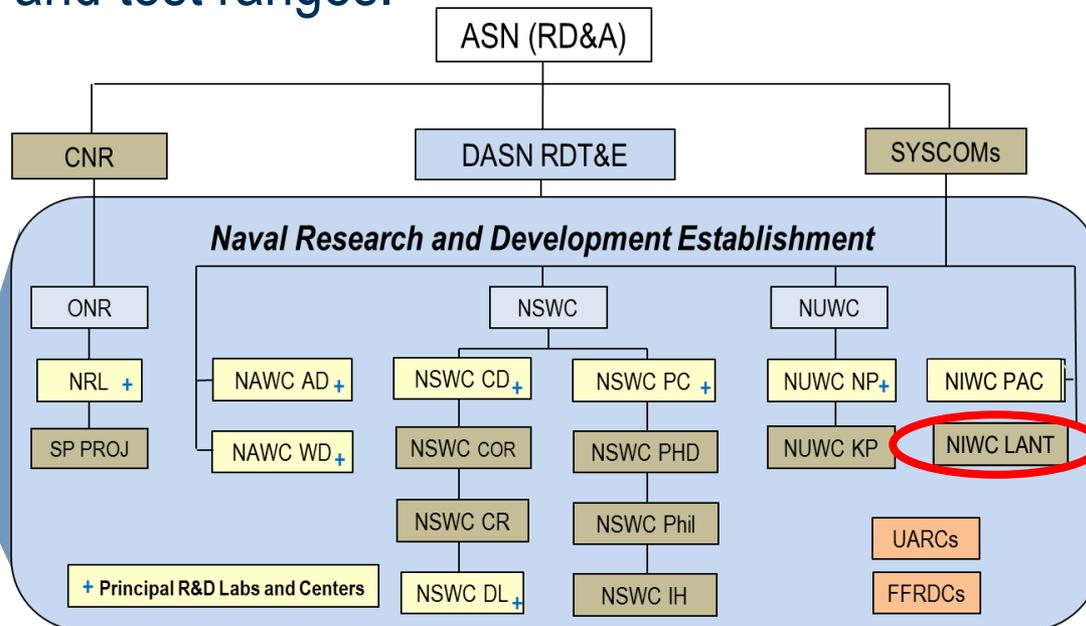


NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

- ▼ Comprised of scientists, engineers, mathematicians and supporting technical personnel who conduct DON research, development, test and evaluation.
- ▼ Encompasses the technical resources required to explore, develop and field future naval warfighting capabilities, such as laboratories, test facilities and test ranges.



Includes the Navy's Information Warfare Centers and laboratories.





Naval Leadership and Priorities



Chief of Naval Operations
Michael Gilday

FRAGO, foundation from A Design for Maintaining Maritime Superiority 2.0



Commandant of Marine Corps
General D. H. Berger

38th Commandant's Planning Guidance



Commandant of the Coast Guard
Admiral K. L. Schultz

USCG Commandant's Direction 2018

Core attributes:

- Integrity
- Accountability
- Initiative
- Toughness

Focus our efforts:

Warfighting — A Navy that is ready to win across the full range of military operations.

Warfighters — We must recruit, educate, train, and retain America's most talented men and women.

Future Navy — A Navy fully prepared to fight and win.

Focus areas:

- Force Design
- Warfighting
- Education and Training
- Core Values
- Command and Leadership

Vision is for Marine Corps to be manned, trained and equipped as the world's premier naval expeditionary force-in-readiness.

Forward postured with fleets to deter conflict and respond to crisis.

Globally recognized as an elite Corps of Marines of exceptional talent and virtue.

Ready:

We will be prepared to serve and protect the American people and our national interests.

Relevant:

We will be a professional and agile armed force, law enforcer, regulator, and maritime first responder on which our partners confidently rely to address the Nation's increasingly complex maritime challenges.

Responsive:

We will employ our bias for action to excel in mission execution as we protect and defend the homeland.

Guidance to the Fleet CNO Adm. Mike Gilday

<https://www.navy.mil/cno/docs/CNO%20FRAGO%20012019.pdf>



"I am confident that we will maximize the Navy we have today while delivering the Navy that our nation will rely upon tomorrow. We will do so with **urgency**. Our fleet will be a potent, formidable force that competes around the world every day, deterring those who would challenge us while reassuring Allies and partners. Joining with the Marine Corps, we will deliver

decisive **Integrated American Naval Power** when called. As we focus on the future, we will value and celebrate our heritage. Our Core Values of **Honor, Courage, and Commitment** and our attributes of **Integrity, Accountability, Initiative, and Toughness** will always guide us. They underpin who we are as members of the profession of arms: united by our common oath, dedicated to our special standards of ethics and character, and constantly honing our unique expertise in the art and science of naval warfare."

— Adm. Mike Gilday
Chief of Naval Operations

Focuses across three areas that are vital to achieving success now and in the future:

Warfighting A Navy that is ready to win across the full range of military operations. We must have a Fleet that is manned, trained, equipped, integrated, and ready to meet requirements of our senior leaders at any time. Alongside the Marine Corps, the Navy will deliver decisive Integrated American Naval Power.

Warfighter A Navy that is world-class. We must recruit, educate, train, and retain America's most talented men and women. Our people – uniformed and civilian Sailors – are our asymmetric advantage.

Future Navy A Navy fully prepared to fight and win. Our Navy will be equipped with the right capabilities and numbers to meet the challenges of a complex and competitive maritime environment. We will look at what is required to operate forward, build the Fleet to match, and train together until we achieve integrated combat power across the force.

Fragmentary order (FRAGO) intended to simplify, prioritize, and build on the foundation of "A Design for Maintaining Maritime Superiority 2.0," issued by Adm. John Richardson in December of 2018.

Strategically Located



NIWC Atlantic

FY19 Total Obligation Authority \$3.35B

- 46% supports 400+ Small Business firms
- 93% competition
- Primarily a Navy Working Capital Fund (NWCF) Organization. Relying on sales revenue rather than direct Congressional appropriations to finance its operations

Technical Leadership

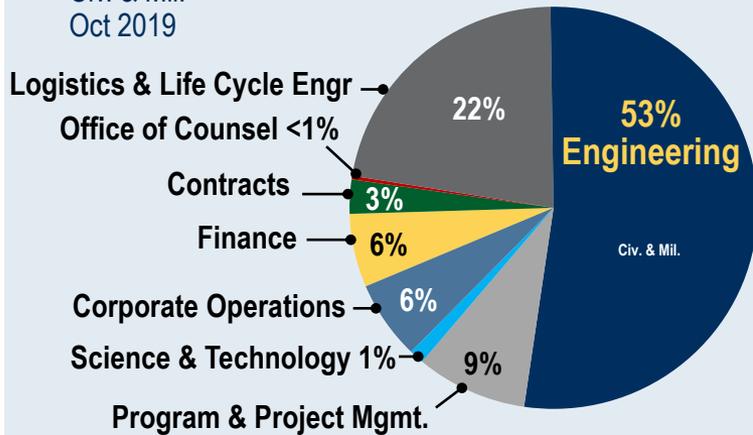
- 4,967 (4,853 Gov't, 114 Mil); ~9,000 from Industry
 - 53% in Science and Engr. Occupational Series
 - 13 Senior Science and Technical Managers (SSTMs)
 - 271 New Professionals
 - 119 Student Interns (FY19)
 - 57 PhD; 1,287 Masters; 2,139 Bachelors

Strategically located to support Naval forces

Workforce/Operational Profile

NIWC Atlantic

Workforce by Competency
Civ. & Mil.
Oct 2019



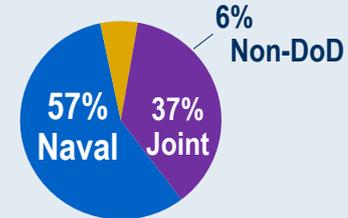
Five Warfighting Depts

- Fleet C4I and Readiness
- Expeditionary Warfare
- Enterprise Systems
- Shore C2ISR and Integration
- Science and Technology

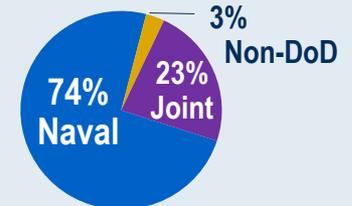
Top Series (60%)

- IT Specialist
- Electronics Engineer
- Computer Scientist
- Electronics Technician
- Mgmt & Program Analyst

FY19 \$ New Orders



FY19 Workforce (FTEs)



Primarily a Navy Working Capital Fund (NWCF) Organization, relying on sales revenue rather than direct Congressional appropriations to finance its operations

NWCF improves cost awareness, promotes cost management & increases flexibility

- ✓ Generates adequate revenue to cover cost of operations
- ✓ Operates on a break-even basis

Optimizing our people, processes & tools to rapidly deliver information warfare solutions



Joint Base Charleston Presence

NIWC Atlantic CHS:

- 3,259 Gov't
 - 18 Military
- 79 bldgs, 1.36M sq ft

Weapons Station JBC

- Army Field Support Battalion Charleston (AFSBn-CHS)
- 841st Transportation Battalion



Air Force Base JBC

- 628th Air Base Wing
- 437th / 315th Airlift Wings

Common Submarine Radio Room production and testing



Poseidon Park Electromagnetic Interference (EMI) Testing



Satellite Comms Complex D Software Defined Radio & RF Testing



Cyber Forensics and Data Recovery Labs Oct 2017



Electromagnetic and Environmental test labs / Anechoic Chamber





Other Major Locations

Hampton Rds, VA

934 Gov't, 85 Mil

- Fleet ops & support
- Co-located with Fleet Forces Command and NAVIFOR
- Communication systems integration & maintenance
- Navigation systems
- Navy Tactical Command Support System (NTCSS)
- Integrated Undersea Surveillance System
- Fleet Installations and Upgrades, CANES / NTCSS
- USMC IT Strategic Sourcing



New Orleans, LA

224 Gov't, 8 Mil

- Center of DON manpower & personnel software design & support
- DON Global Distance Support (Help Desk)
- DOD Component Enterprise Data Center
- Veterans Benefits Mgmt. IT Systems, web portal & software development
- Logistics & IT support
- GCSS MC Service Desk
- Defense Health



NEDC and Watch Floor

National Capital Region

171 Gov't, 1 Mil

- FLTCYBERCOM / C10F
- NAVSEA & NAVAIR Platform C4I/Cyber / ID support
- USCYBERCOM (USCC)
- IESS (Secret Service protected facilities)
- PEO-EIS / NGEN
- DCGS-N / DCGS-MC
- MARCORSSYSCOM
- Anti-Terrorism / Force Protection
- DCI / MCWL embeds



Cryptologic & Intel

Other CONUS/OCONUS

265 Gov't, 2 Mil

- Expeditionary and USSOCOM C4I systems
- USCENTCOM
- CNE / C6F
- Ballistic Missile Defense/Aegis ashore
- USEUCOM
- USAFRICOM
- MILCON C4I support

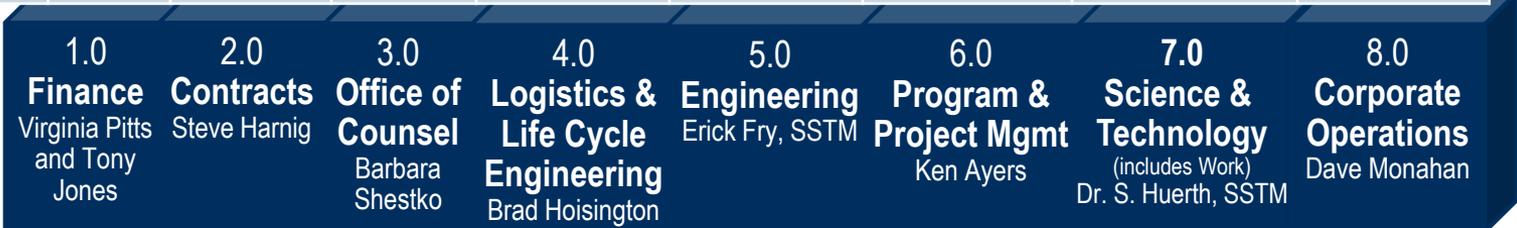
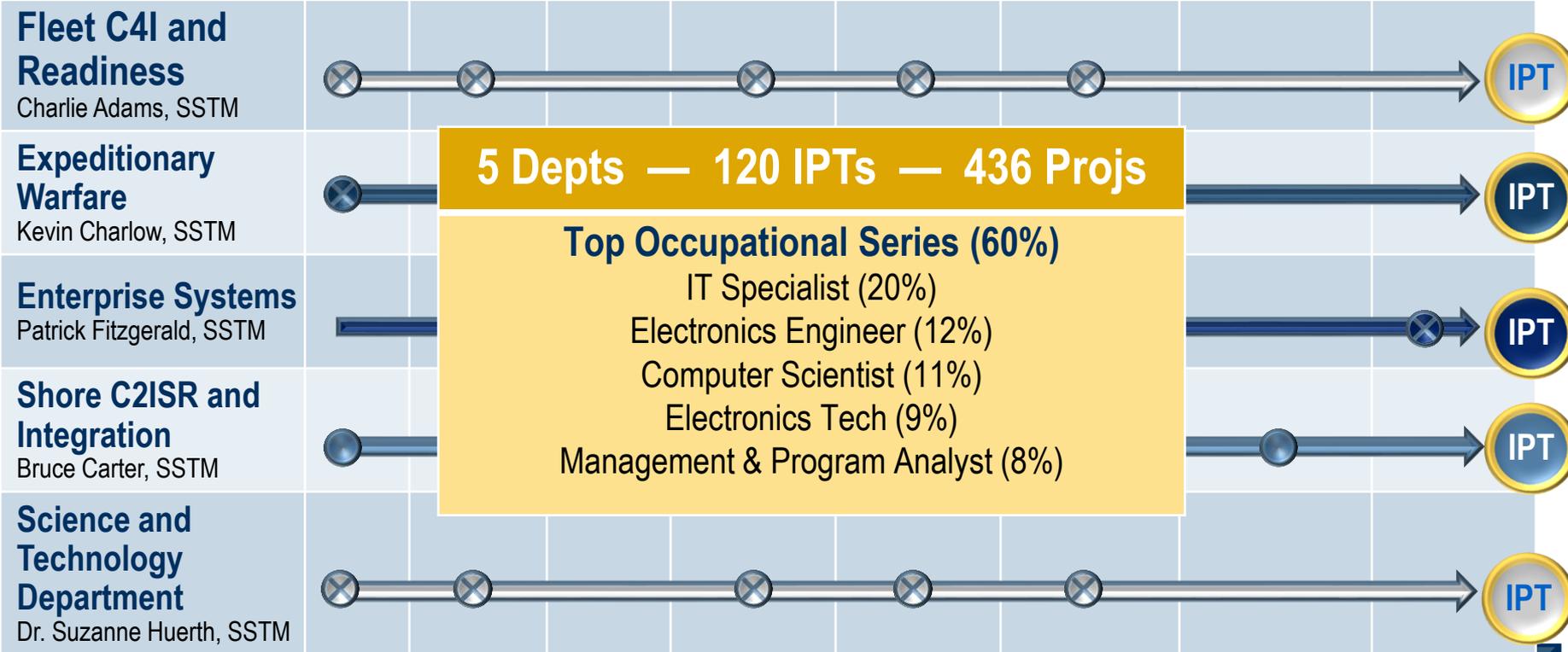


Driving integration and interoperability into the Navy's Information Technology portfolio

Organized Around Teams

Integrated Product Team (IPT) competencies cooperatively functioning together to produce goods and services

Departments (cost, schedule and performance)



Competencies (people, processes and tools)

Statement A: Approved for Public Release. Distribution is unlimited (12 December 2019).

Fleet C4I and Readiness Department

Fleet C4I and Readiness Department

FY19: 1,677 FTEs

150 Programs / Projects

- Engineer (design, develop and test) new C4ISR capabilities that give our Fleet an advantage over adversaries.
- Integrate C4ISR systems into the U.S. Navy's newest and most advanced ships and submarines.
- Install C2, intel, communications, networks and applications for the Fleet.
- Support Fleet C4ISR systems to maintain operational availability and complete lifecycle engineering.

▼ Fleet C4I and Readiness Divisions

Ensuring Information Warfare superiority through collaboration, alignment and engineering excellence.

- Battlespace Awareness (PMW 120)
- Information Assurance and Navy Cybersecurity (PMW 130)
- Command and Control and Afloat Applications (PMW 150)
- Navy Afloat Networks (PMW 160)
- Navy Afloat Transport and Navigation (PMW 170)
- Foreign Military Sales / Air Integration / Coast Guard (PMW 740)
- Surface Ship Integration (PMW 750/760)
- Submarine Integration (PMW 770)
- Shore C4I Integration (PMW 790)
- Fleet Installations and Response

Major Sponsors

- | | | |
|-----------|---------------|-------------------|
| ▪ PMW 120 | ▪ PMW 170 | ▪ NAVSEA |
| ▪ PMW 130 | ▪ PMW 740 | ▪ NAVAIR |
| ▪ PMW 150 | ▪ PMW 750/760 | ▪ USCG |
| ▪ PMW 160 | ▪ PMW 770 | ▪ Fleet Cyber |
| | ▪ PMW 790 | ▪ Numbered Fleets |
| | ▪ FRD | |



Expeditionary Warfare Department

ExW Department

FY19: 573 FTEs

62 Programs / Projects

- Deliver Information Warfare capabilities to the Marine Corps and Special Operations Command
- Provide full spectrum C4ISR systems and services to Marines and Special Forces
- Engineer end-to-end C4ISR systems in tactical vehicles
- Develop and sustain Enterprise IT system capabilities and solutions

▼ Expeditionary Warfare Divisions

Rapidly delivering C4ISR, Cyber and IT systems and engineering services to meet the Information Warfare needs of the Marine Corps and Special Operations Command.

- Expeditionary Enterprise Systems and Services Division
- Expeditionary Intelligence Solutions Division
- Marine Air Ground Task Force (MAGTF) Command, Control and Communication Solutions Division
- Land Systems Integration Division

Land Systems Integration



Supporting Modular Open Systems Approaches for Weapon Systems, a Warfighting Imperative.

Major Sponsors ▪ MARCORSYSCOM ▪ SOCOM ▪ HQMC ▪ PEO Land Systems



Enterprise Systems Department

ES Department

FY19: 475 FTEs

44 Programs / Projects

- Provide automation through development and deployment of modern software-intensive solutions
- Local, Base and Wide Area network solutions
- Networks and Satellite Communication Gateways
- Hosting for software application and services including private and commercial Cloud services
- Provide software engineering solutions for MPT&E

▼ Enterprise Systems Divisions

Rapidly identify and implement affordable Enterprise IT solutions by promoting innovation, developing our personnel, and forming strategic partnerships across NIWC Atlantic and with our customers.

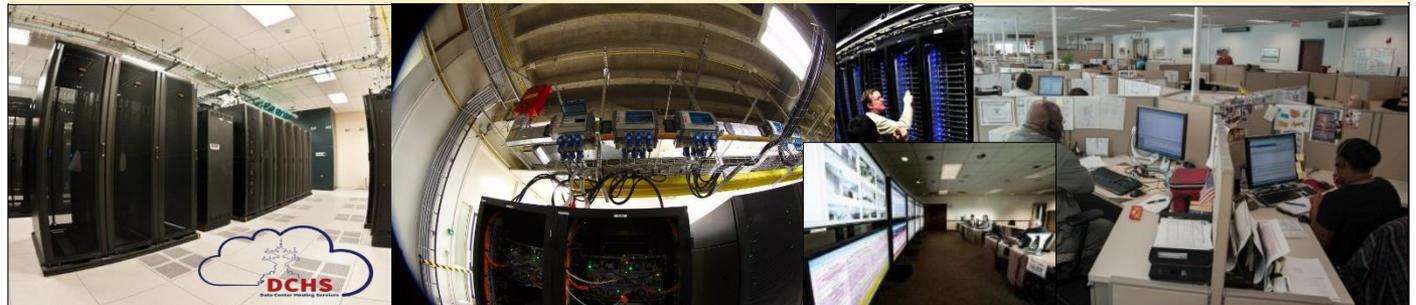
- Data Center and Cloud Hosting Services (DC2HS)
- Manpower, Personnel, Training and Education (MPT&E) Systems
- Enterprise Business Systems (EBS)
- Infrastructure Systems (IS)



DC2HS designated Navy Cloud Broker— brokering services to Amazon Web Services (AWS) today and piloting efforts. Assists the Navy in their cloud acceleration efforts.

Major Sponsors

- | | | | |
|-----------|-----------|--------------------------------------|-----------------------------------|
| ▪ PMW 205 | ▪ PMW 250 | ▪ PMS 444 | ▪ Navy Reserves |
| ▪ PMW 220 | ▪ PMW 260 | ▪ NAVSEA 04 | ▪ Department of Homeland Security |
| ▪ PMW 240 | ▪ PMW 270 | ▪ Defense Information Systems Agency | |
| | ▪ PMW 280 | | |



Shore C2ISR and Integration Department

Shore C2ISR and Integration Department

FY19: 704 FTEs

254 Programs / Projects

- Engineer, deliver and sustain Naval Air Traffic Control and meteorology systems worldwide
- Design, engineer and sustain IW solutions for command and control, intelligence customers
- Provide and sustain cyber-hardened electronic security and shore industrial controls systems
- Engineer, integrate and deploy advanced networking, cyber resiliency and data analytics for military health systems modernization

▼ Shore C2ISR and Integration Divisions

Engineering and fielding systems supporting operational forces overseas and readiness missions stateside.

- Defense Health Information Technology
 - Cyber Security Service Provider (CSSP)
- Industrial Controls Systems and Applications
- Special Reconnaissance, Surveillance and Exploitation
- Force Protection Solutions
 - Electronic Security Systems
- Command and Operations Centers
- Air Traffic Control Engineering
 - Provides all shore-based ATC systems (more than 72 Navy and Marine Corps facilities)



NIWC Atlantic joined NAVSUP Defense Fuel Support Point (DFSP) team to celebrate the completion of the Automated Fuel Handling Equipment (AFHE) upgrade.

Major Sponsors

- Defense Health Agency
- Commander, Navy Installations Command
- Marine Corps Installations Command
- Naval Air Systems Command
- Naval Facilities Engineering Command
- Defense Logistics Agency Energy



Science and Technology Department

Science and Technology Department

FY19: 79 FTEs

53 Programs / Projects

- Technical mgmt., research and development, and integration support to develop advanced technologies that ensure technological superiority for the Navy, Marine Corps and Joint Warfighters.
- Develop, motivate and sustain partnerships with industry and academia to expand research opportunities, recruitment and promote technology transfer to/from the private sector.
- Analyze C4ISR and Space systems to identify gaps in capability; assist in strategic roadmaps to future technology development.
- Rapidly prototype and demonstrate capabilities that address emergent Naval technology needs.

▼ Science and Technology Lead Managers

Researching, prototyping and managing advanced technology development ensuring technical superiority

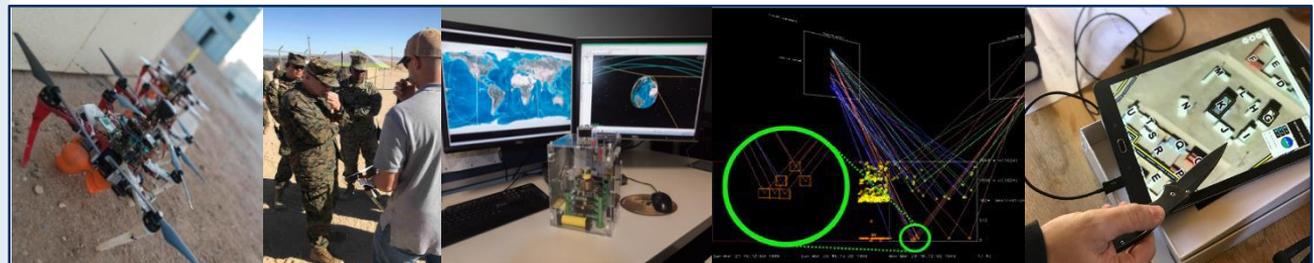
- Defense Advanced Research Project Agency (DARPA)
- The Office of Naval Research (ONR)
- Naval Innovative Science and Technology Program
- Joint Capability Technology Demonstrations



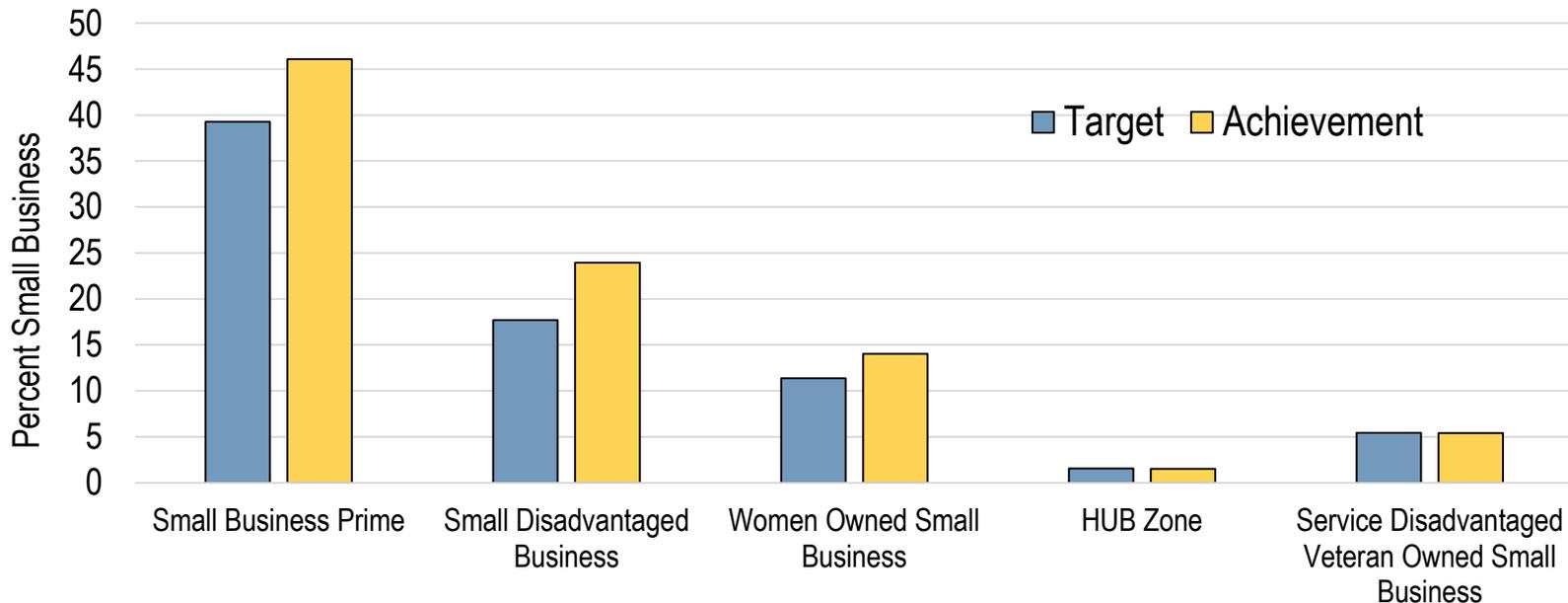
Advanced Naval
Technology Exercise
(ANTX) East.
Demonstrated nine
exploratory technologies

Major Sponsors

- Defense Advanced Research Projects Agency (DARPA)
- Office of Naval Research (ONR)
- Office of the Secretary of Defense (OSD)
- Navy Tactical Exploitation of National Capabilities (TENCAP)



FY19 Small Business Targets and Achievements



07 October 2019

SB

SDB

WOSB

HUB Zone

SDVOSB

Dollars obligated	\$514,539,298	\$259,582,300	\$165,419,521	\$20,120,582	\$69,694,297
Target	39.27%	17.70%	11.37%	1.55%	5.42%
Achievement	46.09%	23.93%	14.02%	1.52%	5.80%

Information Warfare Research Project (IWRP)

Advancing Naval IW through rapid prototyping on a global scale

Focusing on underlying technologies that advance Naval IW capabilities through a consortium that can support research, development and prototyping



IWRP:

- Enables rapid research for IW
- Prototype projects in the area of IW
- Increases access to innovative commercial solutions for defense requirements
- Fosters innovation with non-traditional industry partners
- Allows Prototype consideration through Industry initiated Ideas

OTA:

- Greatly increase speed to award
- Reduce barriers to competition
- Increase access to innovative commercial solutions
- Leverage advanced commercial technologies

10 U.S.C. § 2371b authorizes DoD to carry out transactions for prototype projects other than a procurement contract, or cooperative agreement

Authorizes "Other Transaction for Prototype Projects"

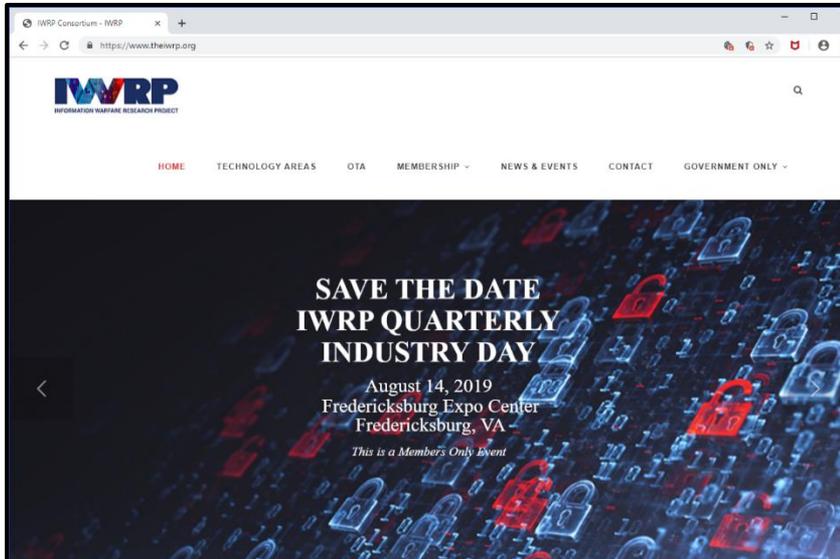
Prototype projects directly relevant to enhancing the mission effectiveness of military personnel and the supporting platforms, systems, components, or materials proposed to be acquired or developed by the DoD, or for the improvement of platforms, systems, components, or materials in use by the armed forces

Where to Get Additional Information

Internal NAVWAR Enterprise Wiki Page
(govt. access only)
<https://wiki.spawar.navy.mil/confluence/x/7-N> Dw



Public Facing IWRP Website
<https://theiwrp.org>



Dashboard / ... / Command Initiatives Library

Information Warfare Research Project (IWRP)

What do you think about this content?
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INFORMATION WARFARE RESEARCH PROJECT

Advancing Naval Information Warfare Through Rapid Prototyping on a Global Scale

The IWRP is a consortium of non-traditional industry and academic partners formed to prototype innovative technologies for SPAWAR's customers.

A Virtual Industry Day will be held on 25 - 27 June. The cut-off date for new problem statements is 05 Jun 2019 .

Contact Information/POCs:

IWRP Program Manager (NIWC Atlantic):	IWRP IPT Lead (NIWC Pacific):
Don Sallee donald.sallee@navy.mil 843-218-4345	Vince Squitieri vincent.squitieri@navy.mil 619-553-3800
IWRP Agreements Officer (NIWC Atlantic):	IWRP Agreements Officer (NIWC Pacific):
Lisa Rosenbaum lisa.rosenbaum@navy.mil 843-218-5982	Sharon Pritchard sharon.pritchard@navy.mil 619-553-3200

Upcoming Events:

Description	Location	Date
Proposal Evaluation Process Guidance / Q&A Email: IWRP-ict@navy.mil for invitation & teleconference dial-in	Teleconference	Tuesdays 1200-1300
Cut Off Date for Problem Statements for June Virtual QID		05 Jun 2019
Virtual Quarterly Industry Day	Webcast	25 - 27 June 2019
Cut Off Date for Problem Statements FY19Q4		17 Jul 2019
Quarterly Industry Day (QID) FY19Q4	Stafford, VA	14 Aug 2019

IWRP Dashboard:

- IWRP Dashboard 05 June 2019.pptx

Forms and Job Aids:

- Problem Statement Intake Form_Section1_Rev21_20190411
- Problem Statement Intake Form_Section2_Rev20_20190502019.docx
- Prototype Project Quad Chart.Example & Template **Updated!**
- SOW Template 20190513 - REV A.docx
- Government Furnish Property_N65236-18-9-0001.pdf
- IWRP Rules of Engagement for Collaboration_20190219.pptx
- IWRP Ordering Guide_DRAFT_rev28_20190528.pptx
- IWRP RACI Chart_DRAFT_Feb 2019
- Non Severability Statement Job Aide 4-10-2019.docx
- AOR Nomination Letter 5-5-2019 REV A.doc
- FISCAL LAW POLICY FOR APPROPRIATIONS.docx

Quarterly Industry Day 14 May 2019 Registration Link

BIDS Information:

- BIDS Quick Card
- BIDS Prototype Review and Evaluation Brief
- Link to BIDS

Recent Briefs:

- IWRP SBIOI.pptx
- IWRP_QID_14May2019_Final.pptx
- IWRP OTA Department Briefing Jan 2019 - Final.pptx
- IWRP External Brief 13 May 2019.pptx

Engagements with Industry and Academia

▼ Formal Initiatives with Industry

- Contracts Industry Council: CHAS (bimonthly)
- Industry Days CHS/HR (As Required)
- IWRP Industry Days (Qtr)
- Technology Exchanges CHS/HR (Qtr)
- Small Business Industry Outreach Initiatives (SBIOI): CHAS (Qtr)
- Women in Defense Speed Networking: CHAS (Qtr)
- NOLA Small Business Event: NOLA (Annually)
- Tidewater Assoc. of Service Contractors: HR (Annually)
- AFCEA WEST: SD (Annually)
- DoN Gold Coast: SD (Annually)
- Sea Air Space: DC (Annually)
- Salute to Small Business (SBA): Columbia, SC (Annually)
- ONR S&T: DC (Annually)
- C5ISR: CHAS (Annually)
- Society of Military Engineers (SAME) SB Conference CHAS (Annually)
- SC Research Authority (SCRA) SB Outreach: CHAS (As Requested)
- Small Business Dev. Center Training: CHS/NOLA (Qtr)
- Monthly Industry Luncheons (As Requested)

▼ Informal Initiatives with Industry

- Weekly one-on-one meetings (as requested) in conjunction with the Small Business Development Center: CHS/NOLA
- Daily emails/calls

Industry Resources



For the innovators

<http://www.defenseinnovationmarketplace.mil/navy.html>

@DON_OSBP
@DODSBIR

IWRP
INFORMATION WARFARE RESEARCH PROJECT
<https://www.theiwrp.org>



Doing Business with NAVWAR
NAVWAR e-Commerce Central (E-CC)

<https://e-commerce.sscno.nmci.navy.mil>



NIWC Atlantic Public Page

<http://www.public.navy.mil/navwar/Atlantic/Pages/ForIndustry.aspx>

▼ Formal Initiatives with Academia

- Cooperative Research and Development Agreements (as required)
- Partnership Intermediary Agreements (as required)
- Patent License Agreements (as required)
- Commercial Service Agreements (As required)
- Educational Partnership Agreements

Cultivating the Next Workforce & Engaging with our Communities

For the **Second YEAR!**
Winner
Best Place to Work!

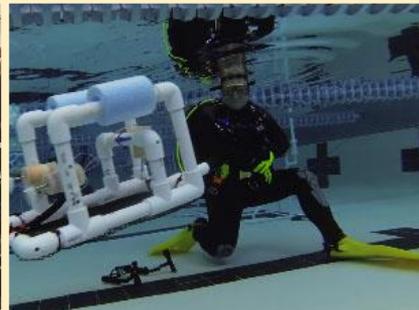


Career & Science Fairs — Cyber Defense Competitions — Cybersecurity Summer Camp — DARPA Robotics Challenge — DimensionU — DoD Math Games — Educators in Industry Program — Essay Contests — Feed the Feds Food Drive — FIRST Robotics Leagues — Girls Day Out — Habitat for Humanity — Lunch Buddies — MAST / Math, Science and Technology — My Brother's Keeper Camp — Navy Family Services — NOLA Redsticks Robotics — School Tours — SeaPerch — STEM Festivals — Toastmasters — Toys for Tots Campaign — Trident Day of Caring — VA Homeless

Ms. Shanda Johnson
STEM Outreach IPT Lead



South Carolina Silver Crescent Award
recognizes Shanda Johnson for making significant contributions to the life and well-being of South Carolina and its people.



FY19 Community Impact and Volunteer Data

- 86,600+ Students Served
- 300+ Volunteers
- 19,000+ Total Hours
- 103 First Robotics Teams
- 11 Educational Partnership Agreements

“Power Up with Cyber”
7th Annual Palmetto Cybersecurity Summer Camp. Close to 150 students attended

Jerry Zucker Middle School of Science.



Naval Information
Warfare Center



ATLANTIC

Serve our Nation by delivering information warfare solutions that protect national security. WIN THE INFORMATION WAR.



NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Web: <https://www.public.navy.mil/navwar/Atlantic> Facebook: <https://www.facebook.com/NavalInformationWarfareSystemsCommand>

Twitter: <https://twitter.com/navwarHQ> Instagram: <https://www.instagram.com/spawarhq/> LinkedIn: <https://www.linkedin.com/company/spawar/>

Glassdoor: https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI_IE638508.11,41.htm

Employment opportunities: <https://www.usajobs.gov/> NIWC Atlantic Small Business: <https://www.public.navy.mil/navwar/Atlantic/Pages/ForIndustry.aspx>

NAVWAR Contract Directorate Office: <https://e-commerce.sscno.nmci.navy.mil>