

Naval Surface Warfare Center (NSWC)

Indian Head Explosive Ordnance Disposal Technology Division (IHEODTD)



Command Overview

Supporting the Warfighter for 125 years

CAPT. VINCENT MARTINEZ
COMMANDING OFFICER



MR. ASHLEY JOHNSON
TECHNICAL DIRECTOR



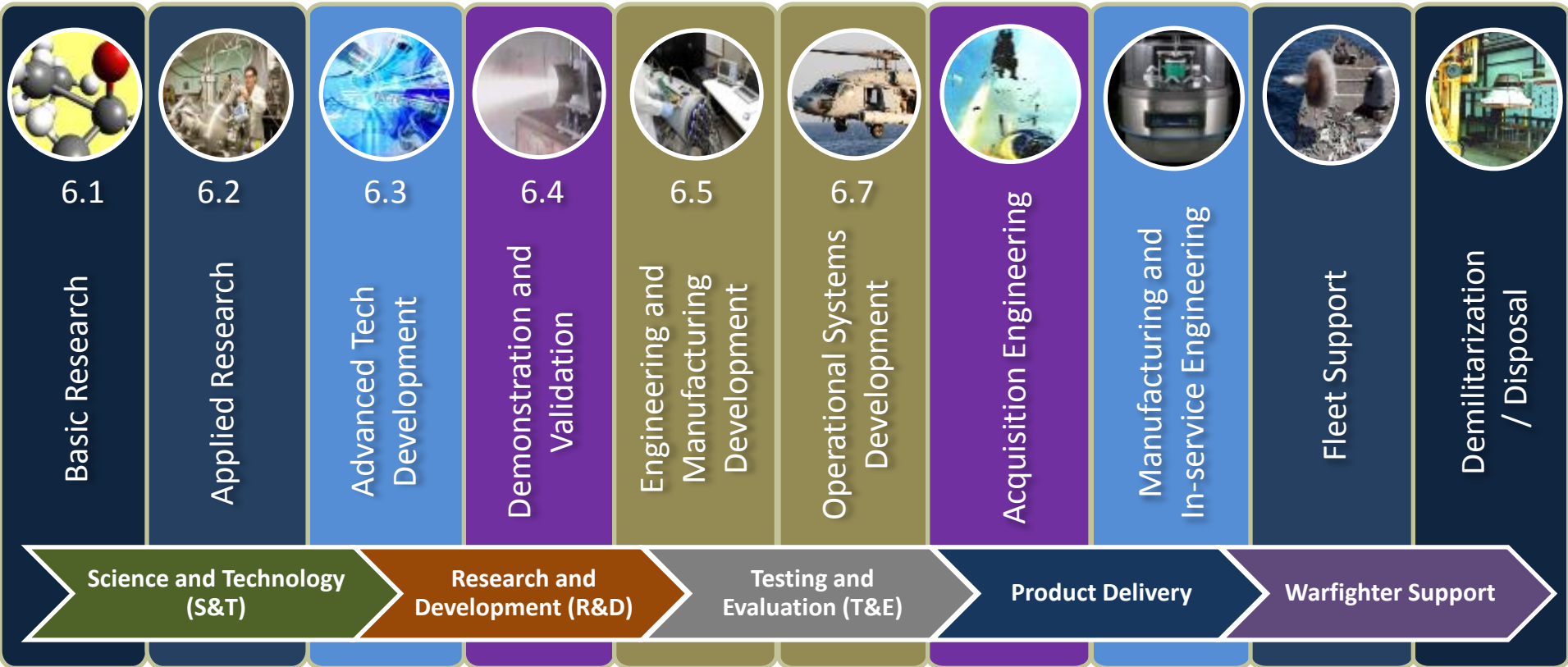
- Research, develop, test, evaluate (RDT&E), manufacture and provide in-service support of energetics and energetic systems. Provide Soldiers, Marines, Sailors, and Airmen with information and technology to detect, locate, access, identify, render safe, recover, exploit and dispose of explosive threats

Energetics are:

- *Propellants*
- *Explosives*
- *Fuels*
- *Pyrotechnics*
- *Reactive materials*
- *Warheads*
- *Rocket motors*
- *Munitions*

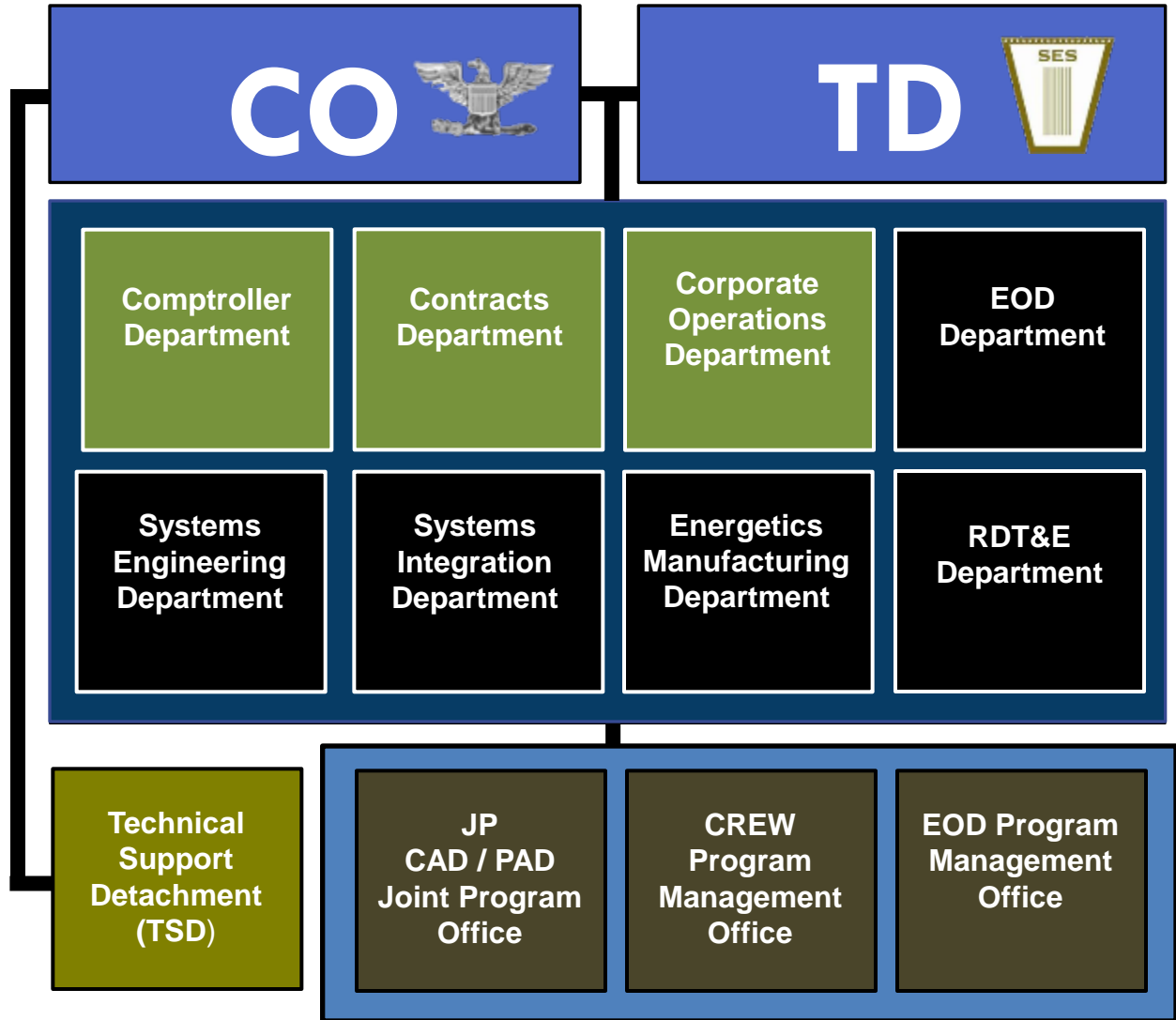
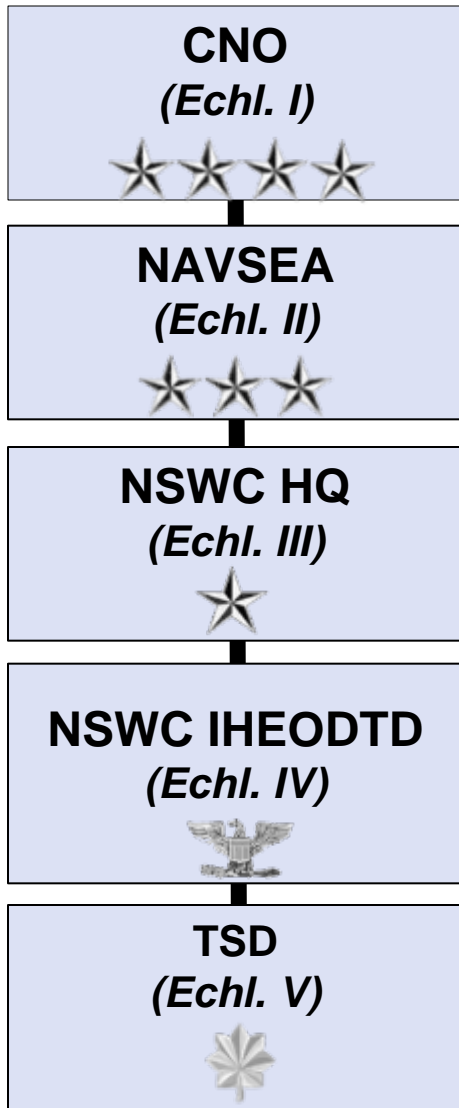


Molecule to Mission



Only DoN activity delivering both energetics and EOD technology solutions from basic research through disposal

Organization Structure



Strategic Locations

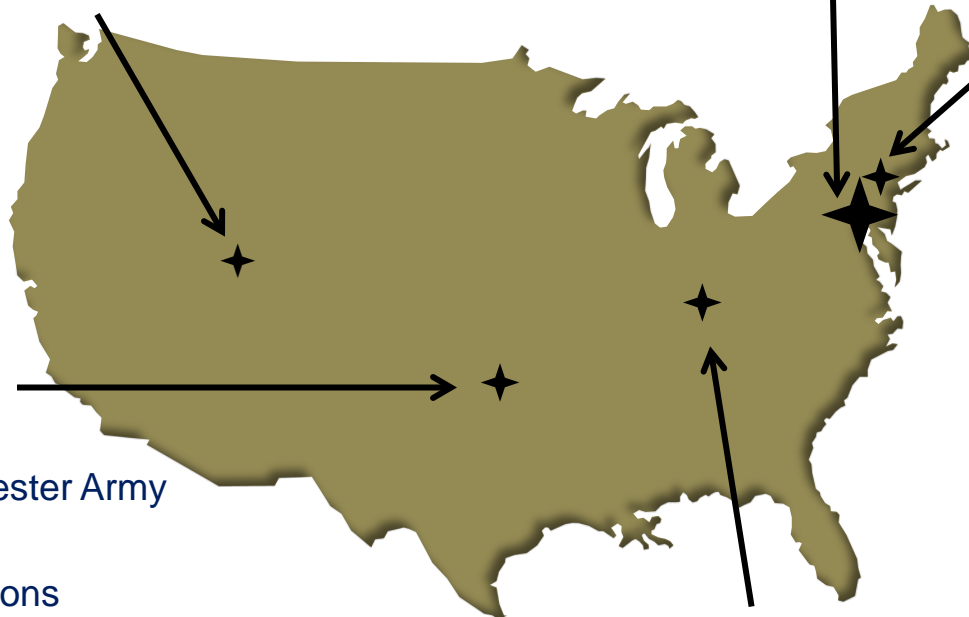


Ogden, Utah: 15 civ.

- Co-located at Hill Air Force Base
- CAD / PAD Air Force Integrated Product Team

Indian Head, Md. (two sites): 1,511 civ., 1 mil. and 192 ctr.

- NAVSEA Center of Excellence (CoE) for Energetics
- DoD EOD program lead
 - Combined Explosives Exploitation Cell platoons



Picatinny, N.J.: 223 civ., 5 mil., and 14 ctr.

- Located at Picatinny Arsenal
 - Joint CoE for Guns and Ammo
- Navy Package, Handling, Shipping and Transportation (PHST), Guns and Ammo

McAlester, Okla.
18 civ. and 6 ctrs.

- Co-located at McAlester Army Ammunition Plant
- Navy Special Weapons

Louisville, Ky.: 12 civ. and 6 ctr.

- Naval Guns

1,779 civilians, six military and 218 contractors, with 21 OCONUS personnel providing fleet support



CO / TD - Command Staff

- Leadership
- Customer Advocate
- Safety
- Office of Counsel
- Small Business Office
- SIO / SSO / STILO
- Quality Assurance
- CTO / CHENG

01 - COMPTROLLER

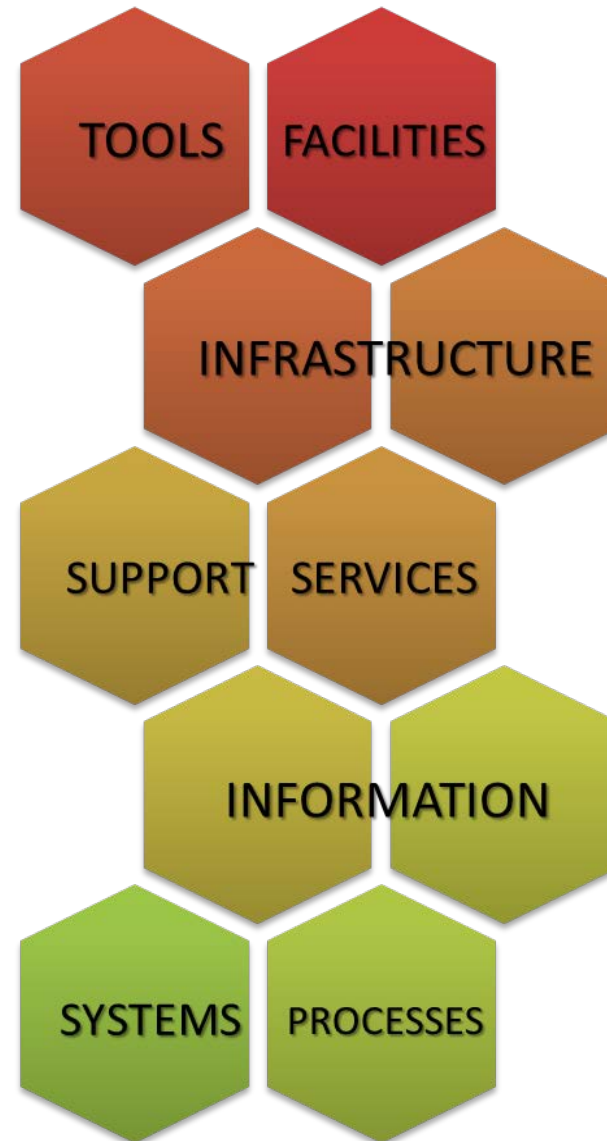
- Accounting
- Budget
- Financial Support

02 - CONTRACTS

- Contract Support
- SAP
- Policy

10 - CORPORATE OPERATIONS

- HR / EEO / Diversity
- Corporate Communications / Public Affairs
- Facilities / Infrastructure
- Information Technology / Information Assurance
- Continuous Process Improvement
- NAVSEA Enterprise Resource Planning Business Office
- Security





Top Five

- Integrated signatures program
- Hypervelocity projectile
- Insensitive munitions advanced development high explosives
- Cold helix program (closed-access)
- Advanced energetics program

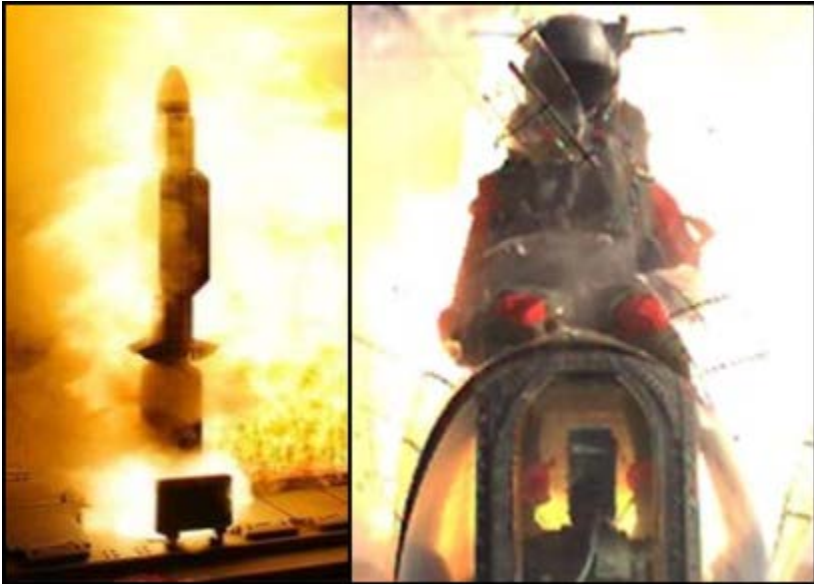
***Department workforce:
161 civilians and five contractors***

Lines of Operation

- Research and technology division
 - Novel energetic material synthesis and formulation and detonation physics
 - Material characterization and chemical analysis
- T&E division
 - Detonation and combustion T&E
 - Material properties, non-destructive evaluation, ballistic and environmental tests

Unique Capabilities and Facilities

- Material development continuum
- Comprehensive analytical capabilities
- Detonation characterization advanced diagnostics
- Ordnance dissection
- Non-destructive evaluations



Top Five

- Digital rocket launcher
- CKU-5 rocket catapult re-work
- Densified propellant program
- Standard missile engineering and simulation
- Countermeasure anti-torpedo warhead and fuzing design and development

Lines of Operation

- Energetic systems division
- CAD / PAD division
- Energetics technology division
- Special weapons division (McAlester, Okla.)
- Engineering acquisition office
- Treaty support office

Unique Capabilities and Facilities

- Micro-explosives characterization and test
- MEMS explosive-certified cleanroom
- Polymer and metal additive manufacturing capability (3D printing)
- CAD / PAD virtual fleet support

***Department workforce:
439 civilians and 16 contractors***



Top Five

- In-service engineering agent (ISEA)
- Standardized pier-side maintenance and repair
- Phalanx close-in weapons system
- Conventional ammunition ISEA
- PHST

Lines of Operation

- Guns division
- Conventional ammunition division
- Conventional ammunition systems program management office
- Naval PHST

Unique Capabilities and Facilities

- 16,000 sq. ft. PHST weapon container test facility
- Gun stand complex
- 12,000 sq. ft. minor caliber lab
- Medium caliber gun range facility

**Department workforce:
261 civilians, five military and 16 contractors**



Top Five

- Otto Fuel II
- Hydra 70/2.75 in. rocket and insensitive material warhead
- M72A7 light anti-tank and M72A9 anti-structure munition warheads
- Sole source CAD / PAD provider
- Navy's only CAD / PAD stock and issue point

Lines of Operation

- Energetic development, scale-up, qualification
- Low-rate initial production and full-scale production of energetic materials and energetic end-items

**Department workforce:
293 civilians and 60 contractors**

Unique Capabilities, Facilities and Prototyping

- Cast composite propellant and polymer-bonded explosive mixing / casting
- Chemical manufacturing and scale up
- Pressed explosives and warheads
- Cartridge, igniter and CAD / PAD assembly
- Explosive decontamination and disposal



Top Five

- AEODRS
- Safe diver stand-off study
- Gemini development
- Joint EOD decision support system
- Foreign materiel acquisition and exploitation

Lines of Operation

- Information management division
- Acquisition and technology division
- Logistics division

Unique Capabilities and Facilities

- EOD information management
- 24/7 technical support center
- EOD countermeasure development
- Robotics range

***Department workforce:
283 civilians and 61 contractors***



Top Five

- Collection and exploitation
- Device and materials (exploited in theatre)
- Device, materials, and information (exploited outside theatre)
- Identify the bomb maker and network
- Supporting CENTCOM, AFRICOM, PACOM and SOUTHCOM

Lines of Operation

- R&T department
- Operations department
 - CEXC platoons 1-4
 - Foreign Material Acquisition

***Military Expeditionary Unit,
Echelon 5 Activity***

Unique Capabilities and Facilities

- Weapons effect assessments
- Environmentally-controlled labs
- Triage equipment
- Electronic exploitation equipment
- Biometric and forensic preservation
- Maritime interdiction operations under-water and post-blast analysis

IHEODTD at a Glance



FY15 Execution

\$420.3M Direct / \$95.9M Indirect

Total Contracting Effort

\$430M

Buildings Occupied

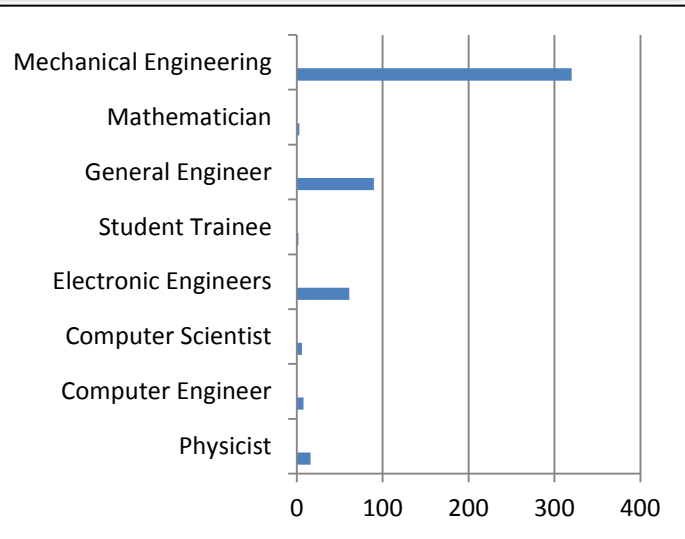
903

Total Square Feet

2,006,402

Civilian Staffing

Science and Engineering Disciplines



Scientists and Engineers
766

Workforce Education

Bachelors 679
Masters: 295
Ph. D.: 57

Employees

1,779

Average Years of Service

17

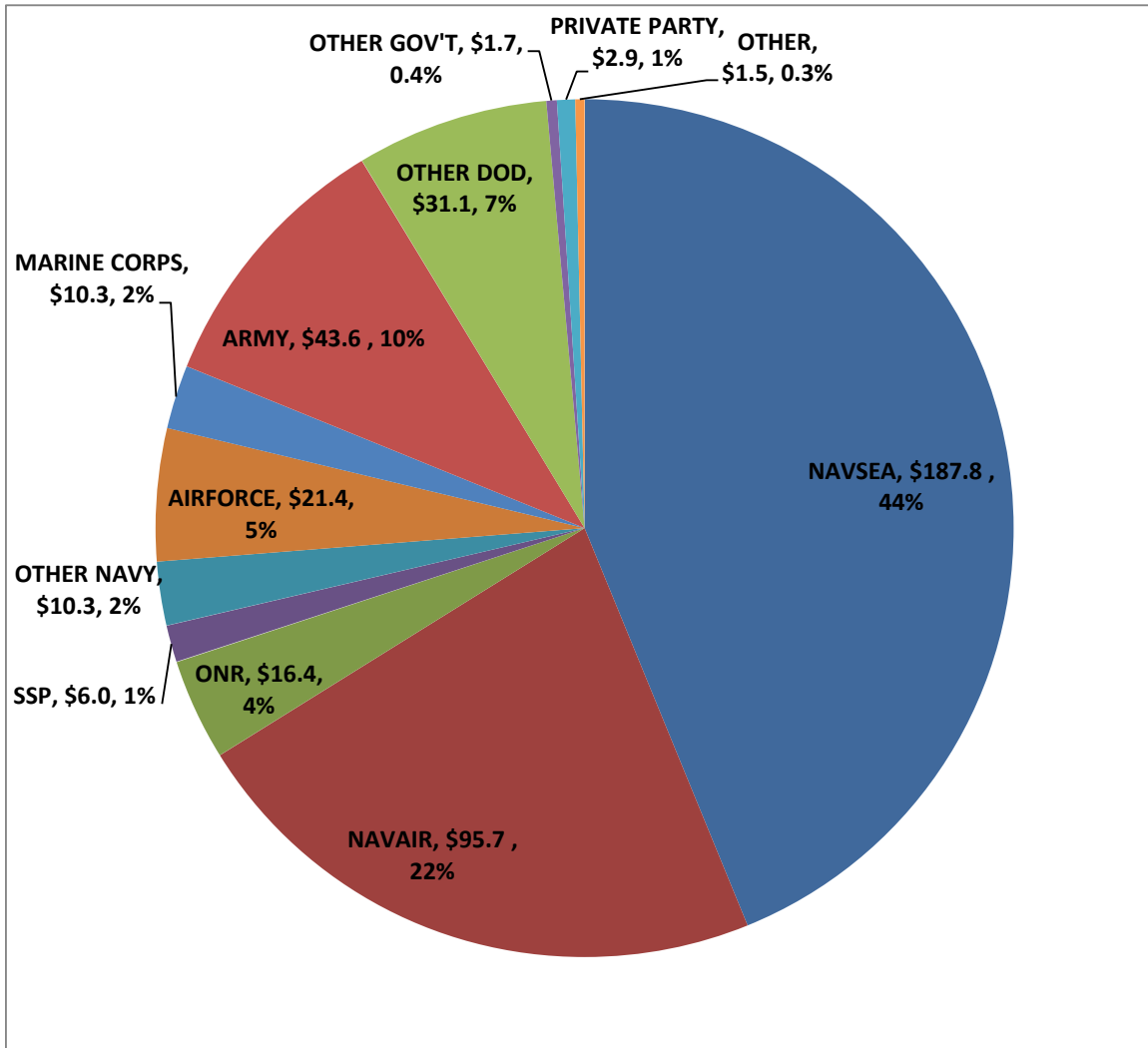
Total Military

56

Average Age of Workforce

47

Customer Base



Navy Funding = 75 %

NAVSEA: 44 %

- PEO (IWS): 16.6 %
- NSWC: 2.8 %
- PEO (Sub): 3.9 %
- PEO (LCS): 1.8 %
- Other NAVSEA: 18.7 %

NAVAIR: 22 %

- PEO (U&W): 20.4 %
- PEO (T): 1.2 %
- PEO (A): 0.2 %
- Other NAVAIR: 0.5 %



Where we live:

- Charles County 64%

Average MD Employee Salary:

- \$91,800

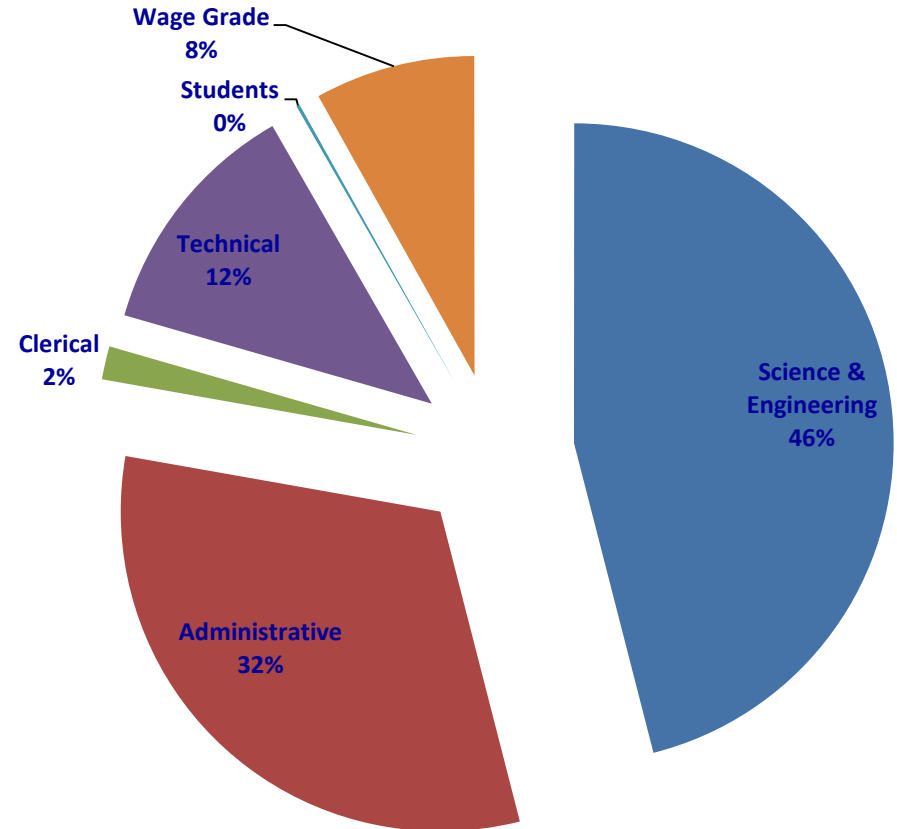
NSWC IHEODTD Total MD Payroll

- \$184M

Local Contract Dollars

- \$193M

Employee Demographics





- Save the Date 26 September
 - Community Event here at the Pavilion
 - Sam Grow Band
 - Navy Band
 - Activities for Kids
 - Alumni Reunion
- Help us with alumni contacts. Send to Becky D'Ambrosio at becky.d'ambrosio@navy.mil



**For more NSWC IHEODTD
information, contact Public Affairs
at nswc.iheodtd.pao@navy.mil or
(301) 744-6505.**