



Research, Development, Test & Evaluation Department

Presented to:

**NSWC Indian Head Division
Industry Day**

Presented by:

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Department Head, Acting
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Commanding Officer**

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Technical Director**

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RDT&E (R) Department



Capabilities and Facilities

- Detonation science facility for controlled, dynamic research of energetic materials
- Material properties laboratory and ordnance dissection for health analysis and aging
- Non-destructive evaluation and analytical chemistry laboratories for in-house lot acceptance and quality assurance of products
- Condition-controlled laboratories for high-fidelity research and development (R&D)
- Chemistry and biology labs (up to BSL-3), collective protection prototypes and over-water range testing for Chemical, Biological, and Radiological Defense (CBRD)

Warfighting Impact

- Integrated signatures program helps Warfighter diagnose threat to the “left of boom”
- Advanced propulsion R&D will lead to future advances in weapon range and flexibility
- CBRD protects ships and facilities from attack and contamination

Lines of Operation

R&D (Code R1)

- Energetic materials science and technology to develop new chemicals, explosives, propellants and performance measurement concepts

CBRD (Code R2)

- Full lifecycle support for CBRD in a maritime environment

Test and Evaluation (Code R3)

- Detonation and combustion test and evaluation for performance, lifecycle analysis and lot acceptance



R Department

- R Department Contracts for:
 - Services
 - Service and repair maintenance
 - Administrative and system support
 - Materials
 - Purchase of new equipment
 - Components/assemblies for Cartridge Actuated and Propellant Actuated Devices (CAD/PADs)
 - Aircrew escape systems
 - Stores/countermeasures release
 - Detonators and petalites
 - Electronics board assembly
 - Printed circuit boards



R Department

- R Department uses government purchase card for:
 - Services
 - General machining and modifications
 - Materials
 - Safety glasses and safety shoes
 - Packaging materials, labels, dunnage
 - Industrial supplies:
 - Electrical wires, pipes, motors
 - PLC components
 - Hydraulic and pneumatic components
 - General tools and supplies
 - Small equipment
 - Chemicals



R Department

- R Dept. – Current Service/Materials Contracts (over \$250K)

Brief Description	Dollar value	Incumbent	Concludes (QTR, FY)
Lab Software Licenses	\$	MathWorks, Inc	2 nd QTR FY25
Q/C Training Support	\$	ERG	1 st QTR FY26
Spectrometer Testing Development	\$3 Million	Block MEMS, LLC	4 th QTR FY24
Admin Support	\$352K	RMC	3 rd QTR FY23
Environmental Chamber	\$308K	VentureDyne, LTD. Thermotron Industries	2 nd QTR FY24
SBIR	\$919K	MATSYS, Inc.	4 th QTR FY23
M98 Filters	\$	HDT Global	4 th QTR FY23
CBRND Engineering Support	\$49 Million	PRISM Maritime, LLC	3 rd QTR FY26
Griffin 460	\$2.2 Million	FLIR Detection, Inc.	4 th QTR FY25
MIDAC Spectrometer Service	\$2.1 Million	MESH, Inc.	3 rd QTR FY26
AIRGARD Service	\$3 Million	KD Analytical Consultanting, LLC	2 nd QTR FY27

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R Department

- R Dept. - Projected Contracts (FY23-FY25)

Brief Description		Anticipated Announcement Date (QTR / FY)	Estimated Dollar Value
LIMS Support		3 rd QTR FY23	\$2.3 Million
Admin Support		3 rd QTR FY23	\$350K