# Connect to Mission

## August 6, 2024

## Featuring: NSWC Crane's Special Warfare & Expeditionary Systems Department

CRANE REGIONAL DEFENSE GROUP

# Special Guests

## CDCA

CDCA is the premier advocate for the Charleston Defense Contractor Industry whose mission is to advocate for, preserve, strengthen, and grow the Charleston defense industry through partnership and collaboration.

## Mr. Peter Reddy

As Executive Director and senior civilian official of Naval Information Warfare Center (NIWC) Atlantic, Peter C. Reddy sets command-wide strategic goals and manages engineering and business operations for more than 4,900 federal civilian and military employees, and approximately 9,000 industry partners.

# Crane Regional Defense Group

## Our Mission:

To elevate the strategic value of Crane and expand southern Indiana's defense innovation ecosystem through defense-related outreach and legislative initiatives that enhance military missions in the region.

## Our Objectives:

**Educate & Inform - Educate and inform the business, citizens, and governments of the region about the economic and cultural benefits of a strong military presence in the region and the importance of the related regional infrastructure.**

**Promote Defense - Serve as a catalyst to promote defense ecosystem assets within NSA Crane and throughout the Indiana Uplands region.**

**Stimulate Relationships - Through the diversity of the membership, coordinate with various entities who have similar interests in maintaining a healthy and stable community, economy, and DOD installations in our region.**

CRANE REGIONAL DEFENSE GROUP

# Crane Regional Defense Group

## C2M EVENTS

CRANE REGIONAL DEFENSE GROUP

# Agenda

- **NSWC Crane Command Welcome:** *Dr. Kyle Werner (SSTM), Deputy Technical Director*
- **NIWC LANT:** *Mr. Peter Reddy (SES), Executive Director*
- **Special Warfare & Expeditionary Systems Department:** *Ms. Angela Breeden, Chief Strategist*
- **Division Manager Panel:** *Mr. John Kleihege, Division Manager, Maneuver, Surveillance & Engagement Division (Facilitator)*
- **Networking Break**
- **Division Manager Panel:** *Ms. Nova Carden, Division Manager, Power and Energy Systems Division (Facilitator)*
- **Networking Break**
- **Acquisition Approach Panel:** *Ms. Lisa A. Good, Chief of the Contracting Office* (Facilitator)
- **Closing Comments**
- **Networking:** *Join PRF for the First Tuesday Event featuring Everspin!*

CRANE REGIONAL DEFENSE GROUP

# Connect to Mission

## NSWC Crane

**Dr. Kyle Werner (SSTM), *Deputy Technical Director***

CRANE REGIONAL DEFENSE GROUP

# Connect to Mission

## NIWC LANT

**Mr. Peter Reddy (SES), *Executive Director***

CRANE REGIONAL DEFENSE GROUP

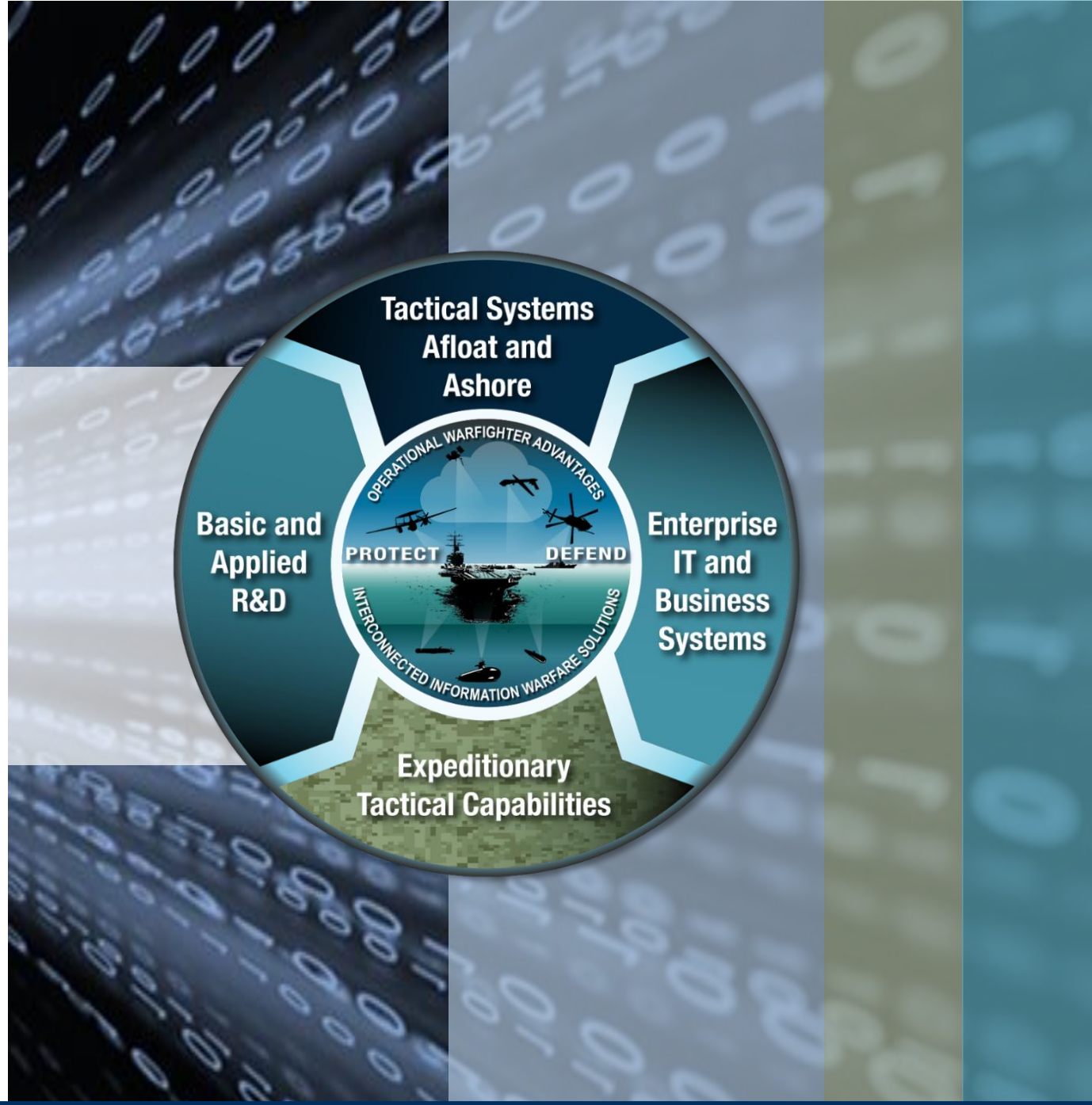
Naval Information Warfare Center
ATLANTIC

## Naval Information Warfare Center Atlantic

# Advancing Naval Advantage

**Crane Regional Defense Group (CRDG)**
**Connect to Mission (C2M) event**
6 August 2024

**Mr. Peter C. Reddy, SES**
Executive Director
NIWC Atlantic

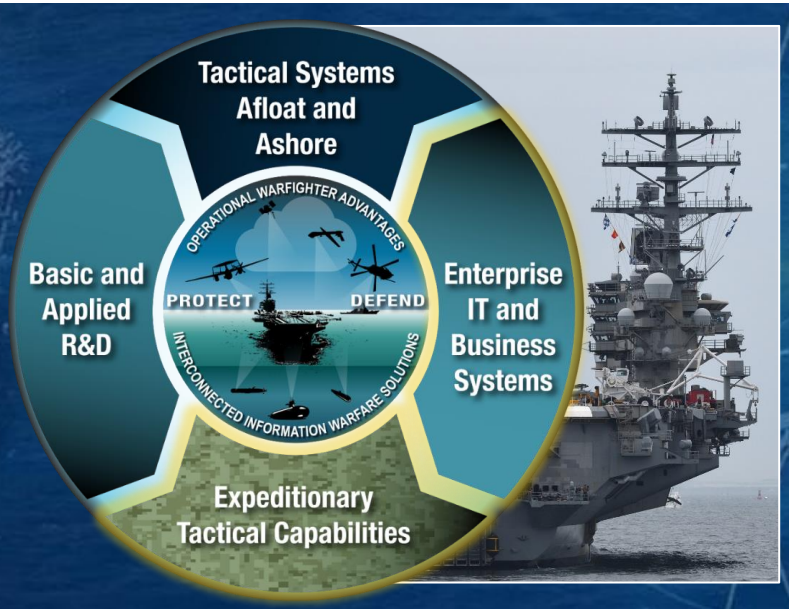


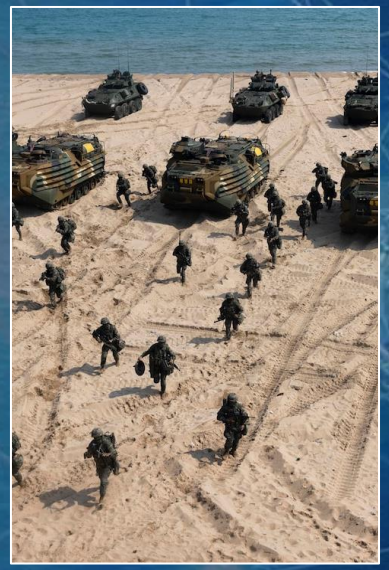
Naval Information Warfare Center ATLANTIC

# Mission

Conduct research, development, prototyping, engineering, test and evaluation, installation, and sustainment of integrated information warfare capabilities and services across all warfighting domains with an emphasis on **Expeditionary Tactical Capabilities & Enterprise IT and Business Systems** in order to drive innovation and warfighter information advantage.

**Naval support in the IW warfighting domain**
to counter Cyber threats to warfighting ability — enterprise to tactical networks.





- Command and Control systems
- Communication systems
- Networking
- Cyber operations
- Intelligence, surveillance, reconnaissance
- Business systems
- Information security

Naval Information Warfare Center ATLANTIC

# FY23 At-a-Glance — government expertise to drive innovation and warfighter information advantage.

## We are where America's naval forces are.

**We are in the theater of operations… forward-based, forward-deployed and globally positioned with America's warfighters.**

### U.S.

- ★ **Charleston, SC** *(CO)*
- ★ **Naval District Washington**
- ★ **Hampton Roads, VA** *(XO)*
- ★ **New Orleans, LA** *(OIC)*
- Tampa, FL (SOCOM focus)
- Fayetteville, NC
- Pax River, MD
- Kings Bay, GA
- Mayport, FL
- Groton, CT

### Overseas

- Stuttgart, Germany
- Naples, Italy *(OIC)*
- Manama, Bahrain *(OIC)*
- Rota, Spain
- Okinawa, Japan

### 4,993 Total Workforce

4,865 Civilian
128 Military
~9,000 Contractors

### Total Facilities

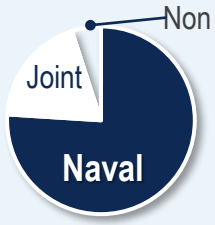
113 bldgs., 2.4M SF

**$9.3B**
U.S. Economic Impact

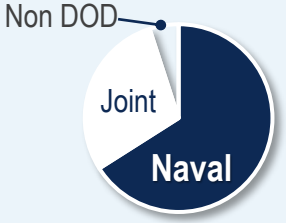
**$4.53B**
Total Obligation Authority

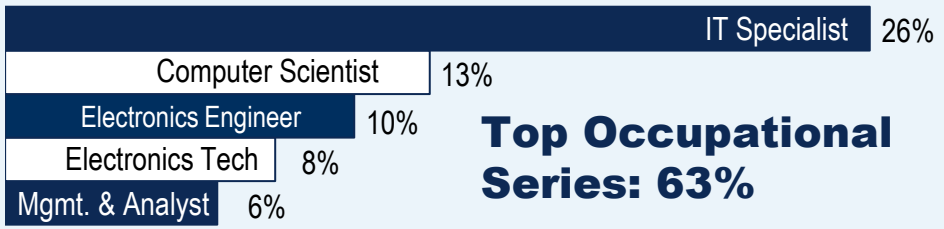
**50% (265)**
Small Businesses, 89% Competition

### Workforce FTEs




### New Orders




**Top Occupational Series: 63%**

**Major Sponsors: 69%**
NAVWAR & PEOs
MARCORSYSCOM
Defense Health Agency
NAVSEA & PEOs
DARPA

1% PhDs
27% Masters
45% Bachelors
197 New Professionals
93 Interns

41% Prior Military
15% Disabled Veterans

Naval Information Warfare Center ATLANTIC

# NIWC Atlantic's Command Strategy implementing data informed decisions to ensure a winning team to rapidly deliver the best IW solutions to the warfighter.

## Executing National and Naval Strategies

2022 National Security Strategy

2022 National Defense Strategy

SECNAV One Navy-Marine Corps Team

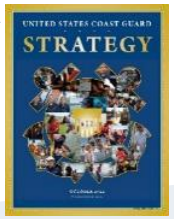
SECNAV Advancing DON Priorities

America's Warfighting Navy CNO Priorities

UPDATE coming soon

38th Commandant's Planning Guidance

FRAGO 01-2024 "Maintain Momentum"




USCG Strategy

NAVWAR Strategic Vector

NIWC Atlantic Command Strategy

Vision:
Win the information War

## 3 Lines of Effort

**Warfighting**
1) Deliver Naval Information Advantage and Warfighter Readiness

**Foundations**
2) Optimize Our Operations

**Warfighters**
3) Adapting Workforce and Culture

## Technology Strategy/Technology Focus Areas

- Artificial Intelligence
- Assured Comms
- Cloud Computing
- Cybersecurity
- DevSecOps
- Mobility
- Model-Based Systems Engineering

Naval Information Warfare Center ATLANTIC

# Cyber Secure Decision Intelligence Focus

- Command and Control systems
- Communication systems
- Networking systems
- Cyber operations
- Intelligence, surveillance, reconnaissance
- Business systems
- Information security

Naval Information Warfare Center ATLANTIC

# All Domain Naval Integration, Cyber and Electronic Warfare Labs — driving integration and interoperability into Naval Capabilities.

## C4I Surface, Subsurface and Land Integration Labs

connecting warfighters with tactical data networks; linking weapons, sensors, battle systems across operational platforms and geographic locations.

ESIIC | Expeditionary Systems Integration and Innovation Center Bay

Poseidon Park Electromagnetic (EM) Interference Testing Ground

Transportable ATC and Meteorology

Common Submarine Radio Room

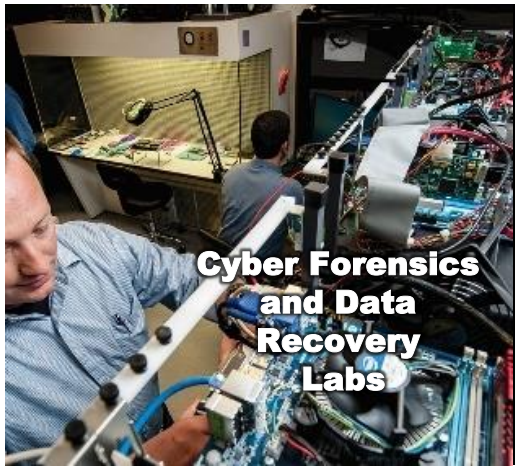
Naval Information Warfare Center ATLANTIC

# Naval Cybersecurity Technical Leader — cybersecurity in everything we do.

## We deliver capability with the functionality and the security the warfighter and our customers need to execute their Mission.

**Strengthen and secure naval systems and networks.**

- Includes:
  - Cyber attack and defense
  - Cryptography and Computer forensics
  - Threat and vulnerability assessment
  - Wireless networks and satellite comms

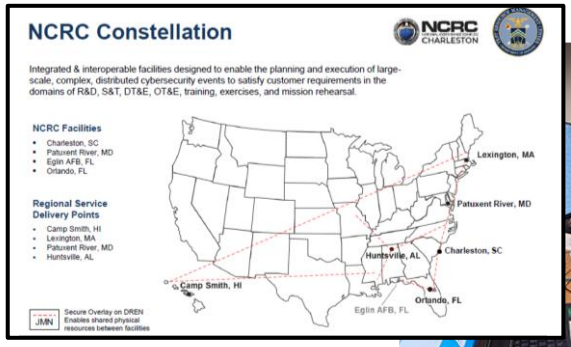


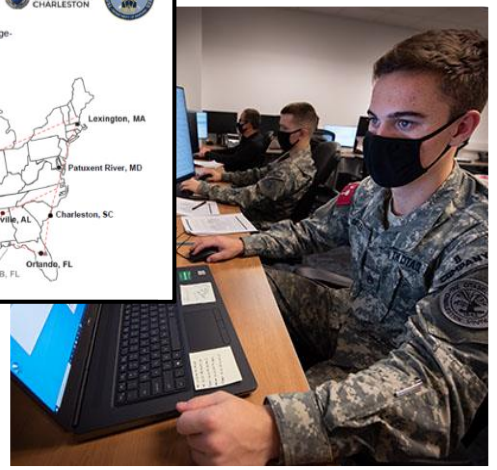

**Drive implementation of cyber standards Navy-wide, creating a secure, defensible information domain.**

- Includes:
  - Cyber Security Service Provider
  - Forensics Lab, the Navy's trusted Agent
  - Support to DIA and DISA for the JWICS network
  - SCI and SAP Network infrastructure engineering
  - NSA-Certified Red Team

## The National Cyber Range Complex Charleston <u>Enables us to train like we fight.</u>

Supports Cyberspace testing, training, mission rehearsals, cyberspace operations, tactics, Science and Technology demonstrations and forensics/malware analysis



NCRC Charleston a DOD resource under the purview of the Test Resource Management Center

# Engineering the IW advantage into tactical systems afloat and ashore

## Engineering the IW advantage into our Fleet.

- Direct support to the Fleet, intelligence and information operations
- Cybersecurity to ensure strong authentication, data integrity, confidentiality, non-repudiation and availability of network resources and information
- Effective, robust and cost-efficient networks for Navy tactical forces
- Mission critical assured and resilient Comms and Position, Navigation and Timing (PNT), test and acquisition support for waveforms being developed for use within the battlefield
- End-to-end systems engineering and lifecycle C4I systems for naval aviation platforms, Foreign Military Sales and USCG afloat, ashore, and mobile platforms.
- C4I equipment on new-construction ships, aboard U.S. Navy, MSC, and USV
- C5I to the Navy's submarine and associated ashore comms infrastructure during new construction and modernization | Submarine antenna to weapon systems
- Shore C4I interoperable C4I infrastructure to support naval afloat, sub-surface, air platforms and shore network communications supporting deployed warfighters

**Enabling Fleet Focused Information Warfare**

Naval Information Warfare Center ATLANTIC

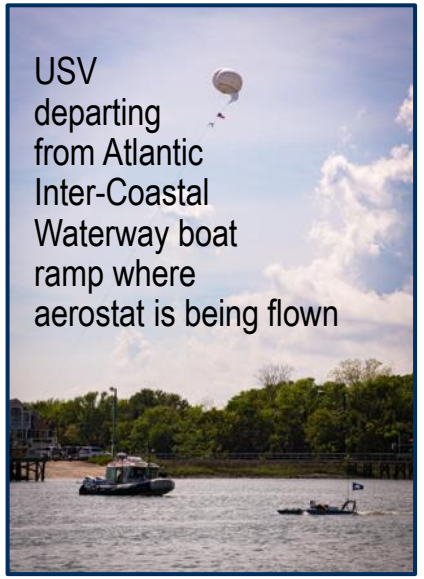
# Wargaming and Realistic Testing Experimentation — to develop the best capabilities for maritime and expeditionary operations.

## Bold Quest Island Marauder 2023

A USMC and Joint Staff J6 month-long event supporting Combined JADC2. Aimed to connect all assets and sensors across sea, land, air, space and cyber into one global "sensor to shooter" network that delivers a decision advantage to commanders on the ground.

## Communications Test Events

for a future fleet that better connects critical command and control functions to various weapons, sensors and small unmanned Systems.

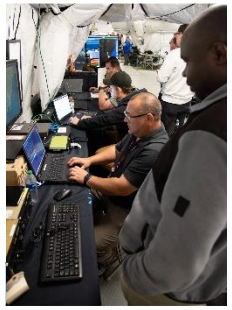



**SoSNIE** | System of Systems Naval Integration Experiment 2024

An agile event that allows for maximum flexibility to support any experimentation, specifically designed for the engineers to focus on the advancement of their technology.

~ 300 attendees on DV Day

~200 participants and 45 systems



Events are aligned with DoD's Joint All-Domain Command and Control | JADC2

Naval Information Warfare Center ATLANTIC

# Delivering within the full range of Naval & Joint Operations

| Departments | FY23 | Major Sponsors |
|---|---|---|
| **Fleet C4I and Readiness**<br>Greg Lancaster, SSTM | 1,508 FTEs<br>39 IPTs<br>157 Projects | • PEO C4I<br>– PMW 120<br>– PMW 130<br>– PMW 150<br>– PMW 160<br>– PMW 170<br>– PMW 740<br>– PMW 750/760<br>– PMW 770<br>– PMW 790<br>• FRD<br>• NAVSEA<br>• NAVAIR<br>• USCG<br>• Fleet Cyber<br>• Numbered Fleets |
| **Expeditionary Warfare**<br>Ashlee Landreth, SSTM | 657 FTEs<br>20 IPTs<br>73 Projects | • Marine Corps Systems Command<br>• PEO Land Systems<br>• Marine Corps Warfighting Lab<br>• Special Operations Forces Acquisition Technology Logistics<br>• Other Joint and DOD sponsors |
| **Enterprise Systems**<br>Kevin Allen, SSTM | 603 FTEs<br>15 IPTs<br>67 Projects | • PEO MLB Portfolios<br>– My Navy HR IT Solutions Services<br>– Navy ERP Financial IT Services<br>– Logistics IT Services<br>– Naval Applications and Business Services<br>– Ready Relevant Learning<br>• Data Center & Cloud Hosting Services<br>• PEO DES Portfolios<br>– Cyber and Operational Services.<br>– Platform Application Services<br>– Infrastructure Services<br>– Digital Workplace Services<br>– End User Services<br>– Special IT Services<br>– CSBO, COO, and TD Support<br>• NNWC<br>• DISA<br>• Other Navy Business and Enterprise systems sponsors |
| **Shore C2ISR & Integration**<br>Bruce Carter, SSTM | 746 FTEs<br>29 IPTs<br>125 Projects | • Defense Health Agency<br>• Commander, Navy Installations Command<br>• Naval Air Systems Command<br>• Department of Homeland Security<br>• Marine Corps Systems Command |
| **Science and Technology**<br>Dr. Suzanne Huerth, SSTM, CTO | 201 FTEs<br>4 IPTs<br>207 Projects | • Defense Advanced Research Projects Agency (DARPA)<br>• Office of Naval Research (ONR)<br>• Navy Tactical Exploitation of National Capabilities (TENCAP)<br>• Office of the Secretary of Defense (OSD)<br>• USN Fleet Readiness<br>• 4th Fleet, NAVSOUTH |

Naval Information Warfare Center ATLANTIC

# **Partnerships** — to create advanced solutions for some of our nation's most complex problems.

https://www.niwcatlantic.navy.mil/Outreach/Palmetto-Tech-Bridge/

## **Palmetto and Mid-Atlantic Tech Bridges, an ONR and NavalX partnership,** developing dual-use solutions to meet both national defense needs and enhance the region's economic strength.

**Focus areas**

- Assured Communications
- Cybersecurity
- Applied AI/ML
- Autonomous Decision Aids & Unmanned Systems
- ISR systems
- Live, Virtual, Constructive & Synthetic environment tech.

**Key products**

- Partnership Intermediary Agreements (PIAs)
- Edu. Partnership Agreements (EPAs)
- Prize Challenges
- Licensing Agreements
- Tech Talks & STEM Outreach
- Problem Curation/Innovation Collisions

https://www.theiwrp.org

**NAVWAR established IWRP**

**A pathway for rapid acquisition and collaboration between industry, government and academia.**

IWRP INFORMATION WARFARE RESEARCH PROJECT CONSORTIUM

Focused on Information Warfare Research and with Navy/Marine Corps work to rapidly advance IW technologies to the Warfighter.

$1B Ceiling **$1.9B awarded since inception** 171 Prototype and 25 Production Awards (May 2024)

**IWRP3** Undefined ceiling

- 10 Year Ordering period (FY25- FY34)

Savannah River National Laboratory®

**Memorandum of agreement signed 13 March 2023**

**To advance technology solutions** in fields like electromagnetic warfare, spectrum operations, cybersecurity and autonomous systems.

# FY 24 – Interim – Small Business Achievements

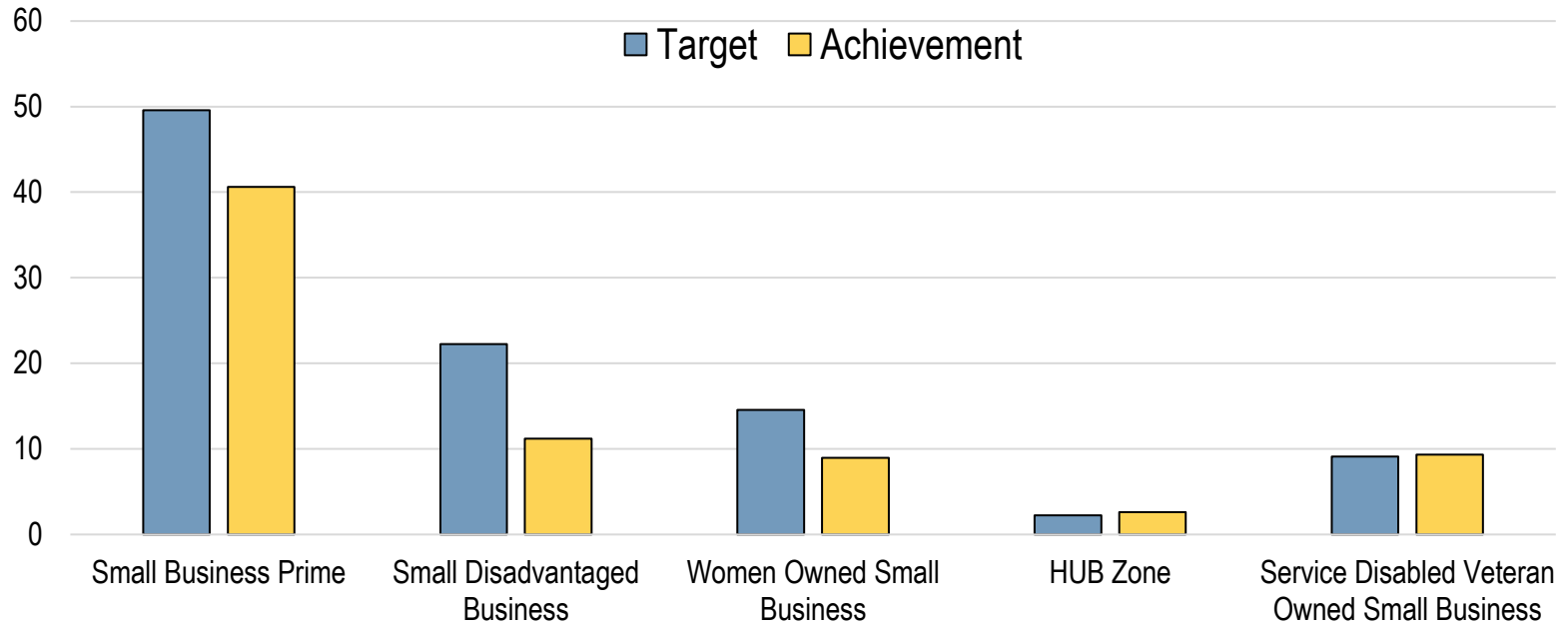
## FY24 SB Projection

**NAVWAR collectively and particularly NIWC Atlantic is short of our SB goal.**

January 2, 2024, SeaPort NxG exercised the current 5-year option period due to business size standard validations.

**We need your help identifying capable small businesses and other contributors to the shortfall.**

**— We are in this together —**




| | SB | SDB | WOSB | HUB Zone | SDVOSB |
|---|---|---|---|---|---|
| 1 July 2024 Obligated | $608,688,151 | $167,543,144 | $133,960,196 | $38,747,569 | $139,532,092 |
| Achievement | 40.61% | 11.18% | 8.94% | 2.59% | 9.31% |
| Target | 49.56% | 22.25% | 14.56% | 2.22% | 9.09% |

## Mission:

Conduct research, development, prototyping, engineering, test and evaluation, installation, and sustainment of integrated information warfare capabilities and services across all warfighting domains with an emphasis on Expeditionary Tactical Capabilities & Enterprise IT and Business Systems in order to drive innovation and warfighter information advantage.

## Vision:

WIN THE INFORMATION WAR.

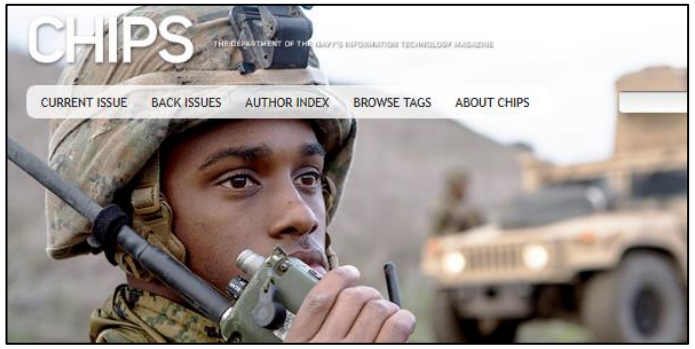
**Follow us on Social Media**
**Search "NAVWAR"**

**Listen to NIWC Atlantic's Technically Speaking podcast on your favorite podcast apps!**

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

https://www.niwcatlantic.navy.mil

CHIPS Magazine (navy.mil)



Connect to Mission

# Special Warfare & Expeditionary Systems

**Ms. Angela Breeden, *Chief Strategist***

CRANE REGIONAL DEFENSE GROUP

## Connect to Mission

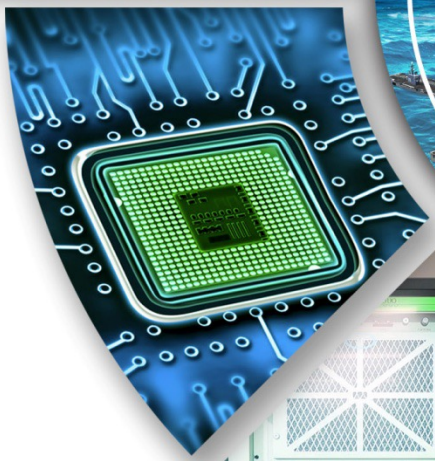
# Division Manager Panel

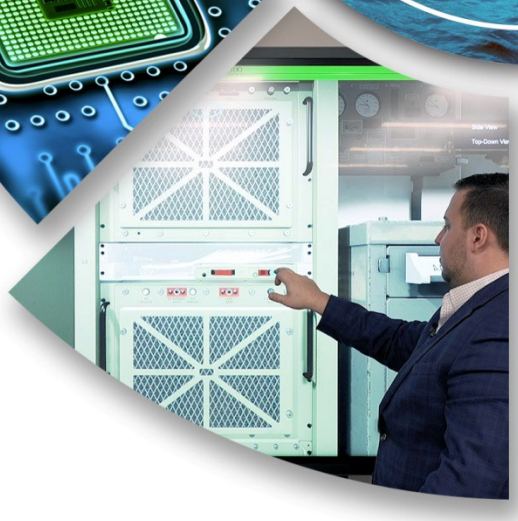
**Mr. John Kleihege**

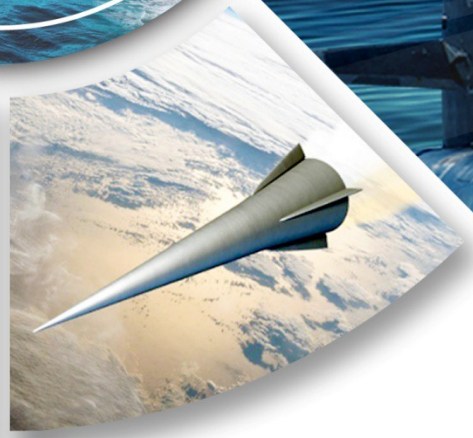
***Division Manager, Maneuver, Surveillance & Engagement (Facilitator)***

CRANE REGIONAL DEFENSE GROUP

NAVSEA
WARFARE CENTERS
CRANE







**CAPT Rex Boonyobhas**
**COMMANDING OFFICER**

**Dr. Angela Lewis, SES**
**TECHNICAL DIRECTOR**

# SPECIAL WARFARE AND EXPEDITIONARY SYSTEMS

*Distribution Statement A: Approved for Public Release*

NAVSEA WARFARE CENTERS CRANE

# MANEUVER, SURVEILLANCE & ENGAGEMENT DIVISION-JXW

- Product Areas
  - Multi-sensor Intelligence, Surveillance, Reconnaissance (ISR) Systems (Airborne and Ground)
  - Ground Mobility Systems
  - Counter Unmanned Systems (Expeditionary, Fixed, and Maritime)
  - Software Systems (E-CORE, Minotaur)

- Services Provided
  - Technology & Software Development
  - Prototyping, Scanning & Modeling
  - Systems & Acquisition Engineering
  - Requirements Analysis
  - Platform Integration
  - Full Life Cycle Engineering, Fielding, Logistics, and Sustainment

- Key Technical Areas Core to Future
  - Electric, Hybrid and Optionally Piloted and Unmanned Vehicles
  - Digital Engineering/3D Scanning and Modeling
  - System of Systems Integration
  - Software Development and Integration
  - System of Systems ISR Design, Development & Integration (multi sensor networking & data fusion)
  - Data Analytics/Transforming Data to Information
  - Counter Unmanned Systems

Contracts Expected Within Next 24 Months:

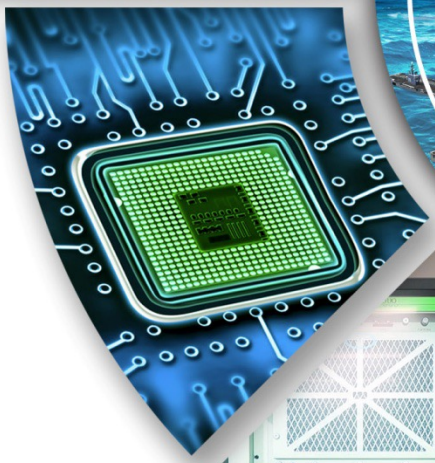
- N0016420F3008 – ISR Systems
  - End Date 9/13/2029
  - Planned Follow-on award date: 5/31/2027
- N0016420F3015 – Design, Integration and Sustainment of mobility platforms
  - End Date 7/25/2025
  - Planned Follow-on award date: 3/21/2025
- N0016421F3022 – Software & Cyber Security in support of MS&E Division
  - End Date 7/22/2025
  - Planned Follow-on award date: 5/16/2025

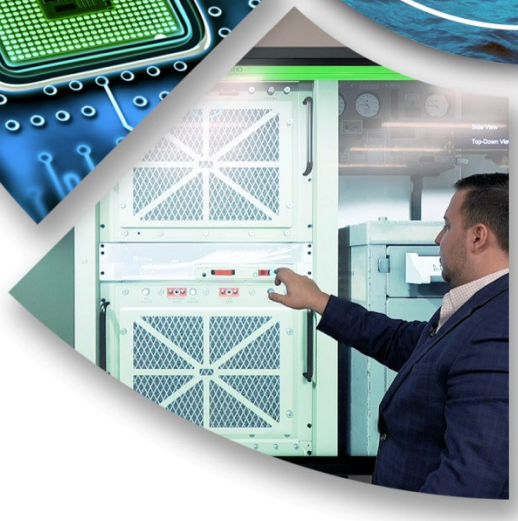
- FEDSIM GSA
  - Integration of new and existing technologies resulting in improved ISR and EW capabilities
  - Planned Award: FY 2025
- DTIC
  - Quick reaction and engineering analyses to support total lifecycle management of advanced surveillance systems of the ISR and EW mission systems
  - Planned Award: FY 2025

**Transforming Data into Decisions**

*Distribution Statement A: Approved for Public Release.*

NAVSEA
WARFARE CENTERS
CRANE





**CAPT Rex Boonyobhas**
**COMMANDING OFFICER**

**Dr. Angela Lewis, SES**
**TECHNICAL DIRECTOR**

# SPECIAL WARFARE AND EXPEDITIONARY SYSTEMS

*Distribution Statement A: Approved for Public Release*

NAVSEA WARFARE CENTERS CRANE

# SPECIALIZED MUNITIONS DIVISION - JXR

- Product Areas
  - Special Purpose Munitions
  - Pyrotechnic & Demolition Items
  - UXS Systems Development & Integration
  - Strategic Systems Programs
  - Experimentation
- Services Provided
  - Full Spectrum of Life Cycle Engineering
  - System Safety - Independent Evaluations for Safety, Reliability, and Performance
  - Non-Destructive Test & Evaluation (T&E) – Environmental, Mechanical
  - Specialized Test & Evaluation
  - Rapid Response and Integration
- Key Technical Areas Core to Future
  - Kinetic/Non-Kinetic Unmanned (UxS) Integration
  - Special Purpose Munitions Research, Development, Test & Evaluation
  - System of Systems Integration & T&E
  - Integrated Ranges & Live, Virtual, Constructive T&E Environment
  - Counter-Unmanned (C-UxS) Experimentation Coordination & Support Worldwide
  - Reverse Engineering - Post Processing and Analysis of Computed Tomography

Contracts Expected Within Next 24 Months:

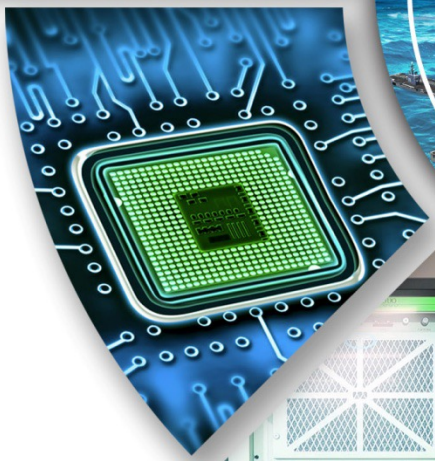
- IAC MAC (DTIC) for Unmanned Systems Research & Development
- In-Service Engineering & Testing Support Seaport
  - Planned follow-on award date: 7/12/2027

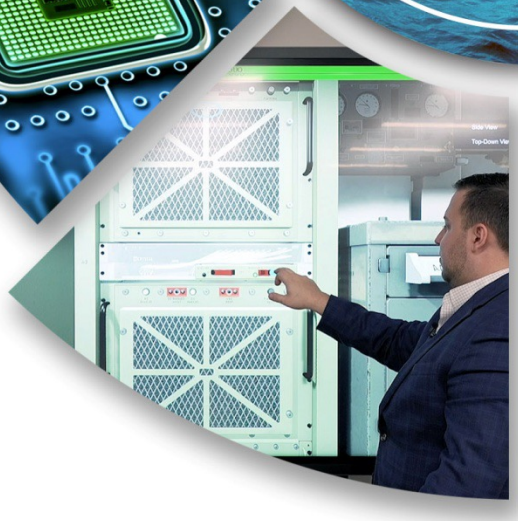
DTIC Task Orders:

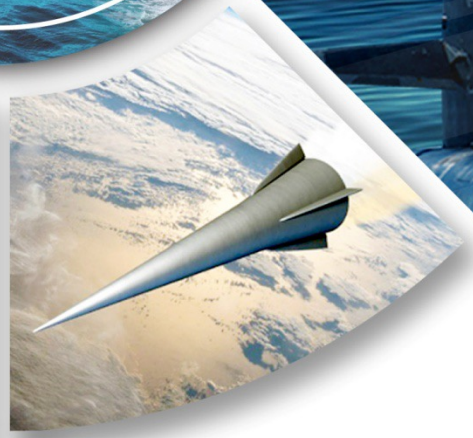
- FA8075-18-D-0013
  - Planned Follow-on Award: Q4FY25

*Distribution Statement A: Approved for Public Release.*

NAVSEA
WARFARE CENTERS
CRANE







**CAPT Rex Boonyobhas**
**COMMANDING OFFICER**

**Dr. Angela Lewis, SES**
**TECHNICAL DIRECTOR**

# SPECIAL WARFARE AND EXPEDITIONARY SYSTEMS

*Distribution Statement A: Approved for Public Release*

NAVSEA WARFARE CENTERS CRANE

# ELECTRO-OPTIC TECHNOLOGY DIVISION - JXQ

- Product Areas
  - Multi-Sensor Electro-Optic/Infrared (EO/IR) Situational Awareness and Targeting Systems
  - Visual Augmentation Systems
  - Lasers
  - Weapon Sights Displays and Peripherals
- Services Provided
  - Full Spectrum of Life Cycle Engineering, Acquisition, Fielding and Sustainment, and Product Support Services
  - Specialized Test & Evaluation and Maintenance and Repair Services
  - Robust Science & Technology ecosystem and collaboration with Research & Development Organizations in Government, industry, and academia
- Key Technical Areas Core to Future
  - Automated Detection Algorithms
  - Real-Time Target Tracker Algorithms
  - Passive Ranging
  - Boresight  Alignment for Distributed Sensors
  - All-Weather Imaging Performance
  - System of Systems Integration
  - Integrated Artificial Intelligence / Autonomy Support
  - Counter EO/IR Technologies

Contracts Expected Within Next 24 Months:

- EOTD Engineering & Program Management Support Services Seaport
  - Planned follow-on award date: 3/7/2025
- EOTD Logistics Support Seaport
  - Planned follow-on award date: 1/7/2025

DTIC Task Orders:

- FA8075-19-F-A043
- FA8075-21-F-0002
- Planned EOTD DTIC Follow-on Award: Q2FY25

**"Eyes on the Target"**

*Distribution Statement A: Approved for Public Release.*

Connect to Mission

# Division Manager Panel

CRANE REGIONAL DEFENSE GROUP

# Crane Regional Defense Group

# THANK YOU

## CRDG MEMBERS FOR YOUR SUPPORT!

## 2024 GOAL

CRANE REGIONAL
DEFENSE GROUP

# Connect to Mission

## Networking Break

CRANE REGIONAL DEFENSE GROUP

## Connect to Mission

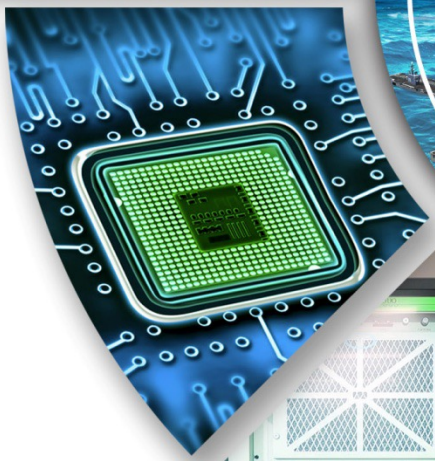
# Division Manager Panel

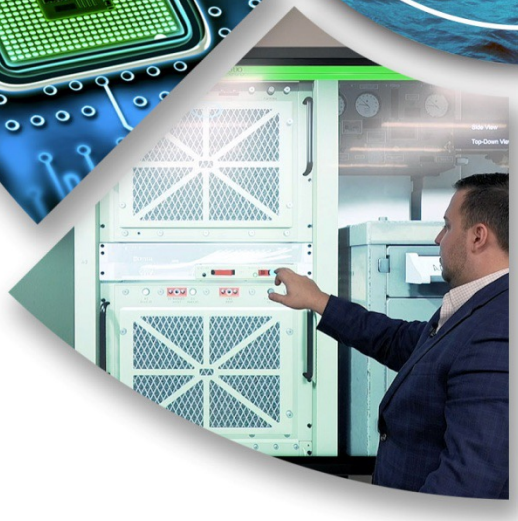
**Ms. Nova Carden**

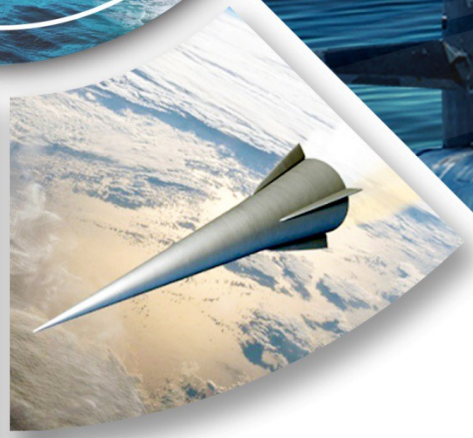
***Division Manager, Power and Energy Systems (Facilitator)***

CRANE REGIONAL DEFENSE GROUP

NAVSEA
WARFARE CENTERS
CRANE







**CAPT Rex Boonyobhas**
**COMMANDING OFFICER**

**Dr. Angela Lewis, SES**
**TECHNICAL DIRECTOR**

# SPECIAL WARFARE AND EXPEDITIONARY SYSTEMS

*Distribution Statement A: Approved for Public Release*

NAVSEA WARFARE CENTERS CRANE

# POWER AND ENERGY SYSTEMS DIVISION

- Services
  - Engineering Investigation and Evaluation
  - Development of Specs and Standards
  - Failure Root Cause Analysis
  - Industrial Base Stewardship
  - Lithium Battery Safety Certification
  - Modeling and Simulation
  - Platform Integration
  - PrCB Design, Fabrication, and Assembly
  - PrCB Reverse Engineering
  - Safety and Abuse Testing
  - Specialized Test & Evaluation of Large Format Systems
  - Systems Engineering

- Value Provided to DoD
  - Critical Enabler of Warfighting Technology
  - Critical Role in Navy Lithium Battery Safety Program
  - Key Leadership Roles across all domains
  - Integral in development of future solutions

- Product Areas
  - Energy Storage Systems
  - Power Management Systems
  - Printed Circuit Boards

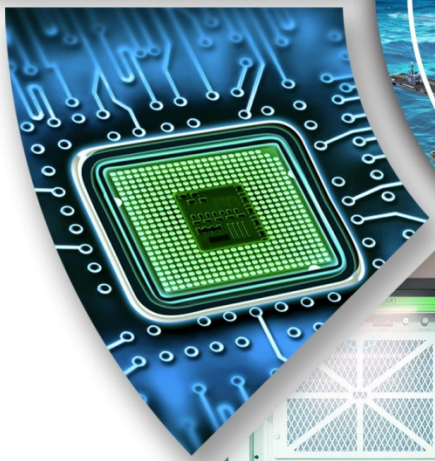
- Key Focus Areas for the Future
  - Battery Management Systems
  - Battery Manufacturing
  - Big Data Analytics
  - Quality Engineering
  - Systems Engineering
  - Design and Prototyping

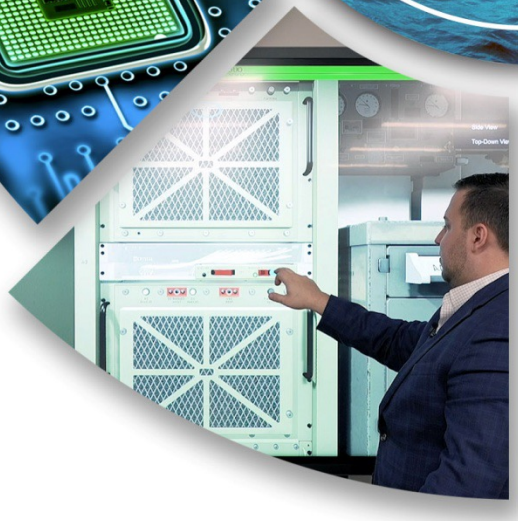
- Available Contracts
  - Expeditionary Mission Consortium – Crane ($EMC^2$) OTA N00164249001
  - Technician Support N0016422F3009
  - Engineering Support N0016422F3020
  - BAA N0016424SNB35

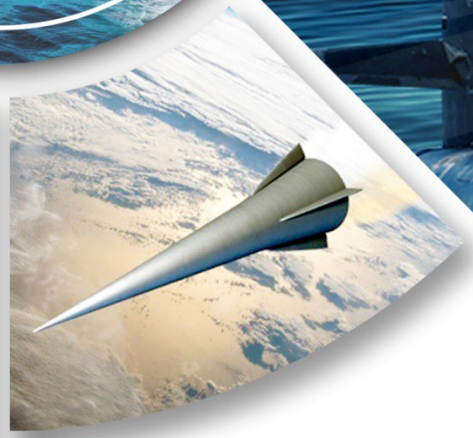
***An Enabling Force for Integration of Advanced Power and Energy Solutions into DOD Systems!***

*Distribution Statement A: Approved for Public Release.*

NAVSEA
WARFARE CENTERS
CRANE







**CAPT Rex Boonyobhas**
**COMMANDING OFFICER**

**Dr. Angela Lewis, SES**
**TECHNICAL DIRECTOR**

# SPECIAL WARFARE AND EXPEDITIONARY SYSTEMS

*Distribution Statement A: Approved for Public Release*

NAVSEA WARFARE CENTERS CRANE

# WEAPON SYSTEMS DIVISION - JXN

- Product Areas
  - Small Arms Weapons and Ammunition
  - Air Platform Integration
  - Autonomous Systems with Kinetic Payload
  - Signature Management
- Services Provided
  - Full Spectrum of Life Cycle Engineering, Acquisition, Fielding and Sustainment, and Product Support Services
  - Specialized Test & Evaluation and Maintenance and Repair Services
  - Robust Science & Technology ecosystem and collaboration with Research & Development Organizations in Government, industry, and academia
- Key Technical Areas Core to Future
  - Weaponized Uncrewed Systems (UxS)
  - Special Purpose Weapons and Ammunition to Counter UxS (c-UxS) Threat
  - Advanced Fire Control with Active Stabilization, Integrated Detection and Fire-On-Coincidence
  - Weapon Suppression Modeling and Simulation, Test and Evaluation and Detection

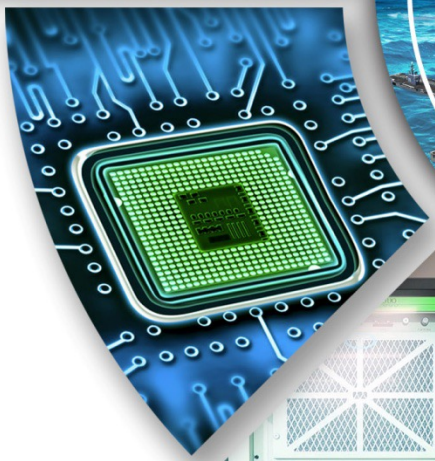
Contracts Expected Within Next 24 Months:

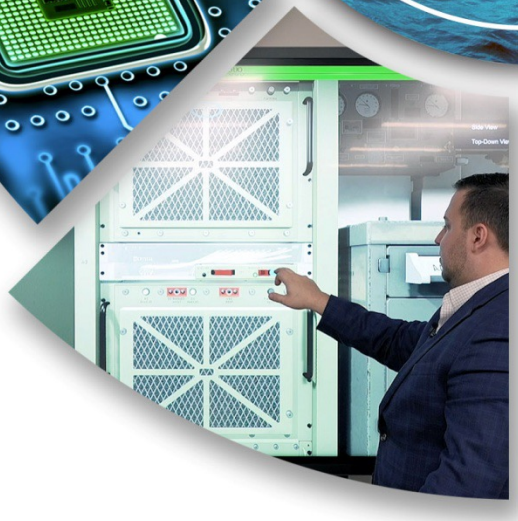
- N0017814D7679/N0016418F3011 – Weapon Systems Training Branch, Training and Documentation Support - Seaport
  - End date: 7/26/2026
  - Planned follow-on award date: 9/2025
- N0016420DJN88-JN93 – Machine Shop Multiple Award Contract
  - End date: 6/25/2026
  - Planned follow-on award date: 3/2026

**“Delivering Advanced Kinetic Effects on Target”**

*Distribution Statement A: Approved for Public Release.*

NAVSEA
WARFARE CENTERS
CRANE





**CAPT Rex Boonyobhas**
**COMMANDING OFFICER**

**Dr. Angela Lewis, SES**
**TECHNICAL DIRECTOR**


# *SPECIAL WARFARE AND EXPEDITIONARY SYSTEMS*

NAVSEA WARFARE CENTERS CRANE

# EXPEDITIONARY C3I & CYBER DIVISION - JXY

## Services Provided

- Command, Control, and Communications Design & Integration
- Software Engineering
- Cybersecurity
- Software Integration
- Software V&V
- Systems Engineering
- Intelligence Systems Design and Testing
- Technology Development
- Acquisition Engineering
- Logistics & Sustainment
- Technology Transition
- Requirements Analysis
- Field Support

## Value Provided

- System design, integration, and sustainment
- Software development and oversight
- Cybersecurity program support and analysis
- Hardware systems delivered enable battlefield commanders and decision makers with relevant, accurate, and timely intelligence data to improve their decision-making capabilities.

## Key Technical Areas

- Software Development - Integration/ Risk Mitigation /Development
- JADC2
- Cybersecurity Engineering / Mitigation / Increased Science & Technology and Technology Transition (HW & SW Accelerator to the Warfighter)

## SeaPort Task Orders :

N0016420F3016 – SAIC

- End Date 9/24/2025
- Planned Follow-on award date: 08/2025

N0016422F3001 – TriStar Engineering

- End Date 11/29/2026
- Planned Follow-on date: 10/2026

DTIC: New Award Expected in FY25

- JXY – Expeditionary C3I & Cyber Support

**Technical leadership for Command and Control (C2) Systems, Tactical Communications, Intelligence Systems, Software Design, and Cybersecurity.**

Distribution Statement A. Approved for Public Release.

NAVSEA
WARFARE CENTERS
CRANE

The **Expeditionary C3I and Cyber Division** provides technical leadership for Command and Control (C2) Systems, Tactical Communications, Intelligence Systems, Software Design, and Cybersecurity.

*Distribution Statement A: Approved for Public Release.*

Connect to Mission

# Division Manager Panel

CRANE REGIONAL DEFENSE GROUP

# Crane Regional Defense Group

# 2024 CRDG Congressional Reception

## Team Crane Congressional Breakfast

# Connect to Mission

## Networking Break

CRANE REGIONAL DEFENSE GROUP

Connect to Mission

# Acquisition Approach Panel

**Ms. Lisa A. Good**

***Chief of Contracting Office (Facilitator)***

CRANE REGIONAL DEFENSE GROUP

UNCLASSIFIED

# Expeditionary Contracts Overview

***Presented by: Candy Owen and Brenda Roush***

***CAPT Rex Boonyobhas, USN***
***Commanding Officer***

***Dr. Angela Lewis, SES***
***Technical Director***

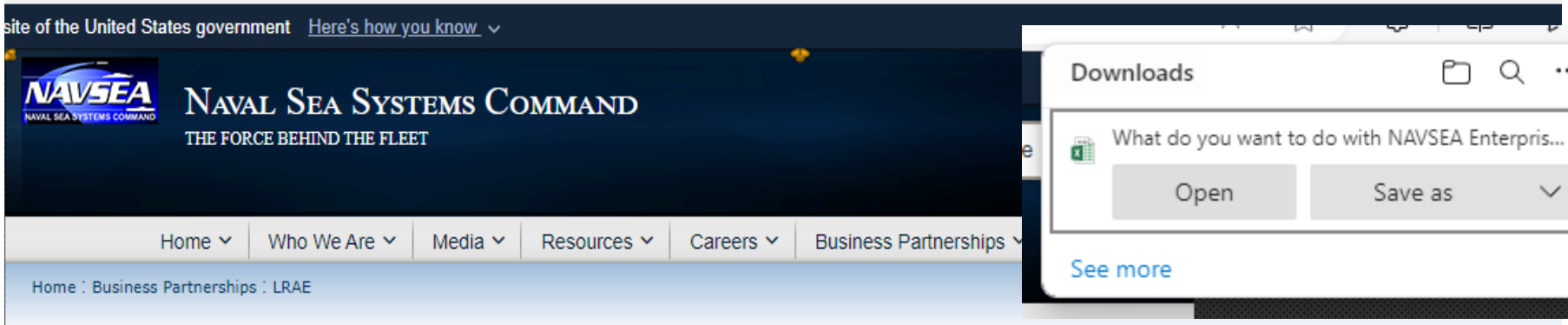
NAVSEA
WARFARE CENTERS
CRANE

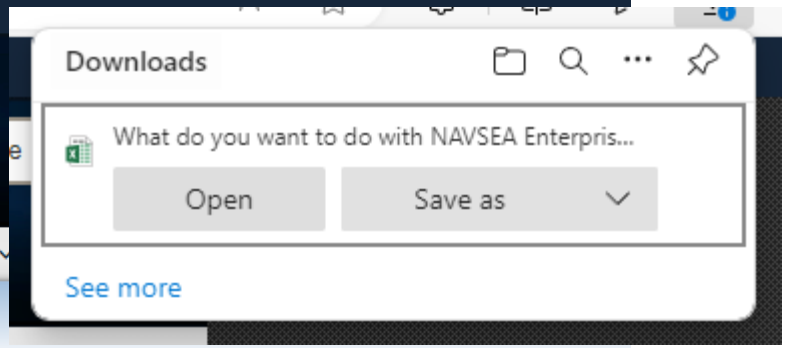
**Approved for public release. Distribution is unlimited.**

NAVSEA
WARFARE CENTERS
CRANE

# Long Range Acquisition Estimate

mil/Business-Partnerships/LRAE/




**NAVSEA ENTERPRISE LRAE**

**DEPUTY PROGRAM MANAGER LIST**

**NAVSEA SMALL BUSINESS PROFESSIONALS ORGANIZATIONAL CHART**

**NAVSEA LONG RANGE ACQUISITION ESTIMATE**

NAVSEA's Long Range Acquisition Estimate (LRAE) is now available. This estimate creates a demand signal of anticipated business needs and makes early planning possible to a wide range of current and potential industry partners. It also contributes to better support of NAVSEA's requirements and fosters increased competition which benefits both NAVSEA and new business partners.

https://www.navsea.navy.mil/Business-Partnerships/LRAE/

NAVSEA
WARFARE CENTERS
CRANE

# Long Range Acquisition Estimate Cont.

The Contracting Office UIC can be filtered down to a particular DODAAC. NSWC Crane is N00164

| Anticipated Total Value (Including Options) | Anticipated Procurement Method | Anticipated Contract Type | Anticipated Procurement Instrument | Contracting Office UIC | Anticipated Solicitation - Fiscal Year |
|---|---|---|---|---|---|
| > $7.5M - < $50M | Small Business Set-Aside | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2024 |
| > $7.5M - < $50M | Small Business Set-Aside | Fixed-Price | "C" Type Contract | N00164: NSWC Crane Division | 2024 |
| <$2M | TBD | Fixed-Price | "C" Type Contract | N00164: NSWC Crane Division | 2026 |
| <$2M | TBD | Fixed-Price | "C" Type Contract | N00164: NSWC Crane Division | 2026 |
| > $7.5M - < $50M | TBD | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2025 |
| > $7.5M - < $50M | TBD | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2026 |
| > $7.5M - < $50M | TBD | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2025 |
| > $7.5M - < $50M | TBD | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2025 |
| > $7.5M - < $50M | TBD | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2025 |
| > $7.5M - < $50M | TBD | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2025 |
| > $50M - < $100M | Small Business Set-Aside | Cost-Reimbursement | Delivery Order/Task Order (not under Federal Supply Schedule Contract) | N00164: NSWC Crane Division | 2024 |

LRAE filtered to N00164 will show actions for all Departments at Crane and NAVSEA Program Executive Office Services workload.

NAVSEA
WARFARE CENTERS
CRANE

# Long Range Acquisition Estimate Cont.

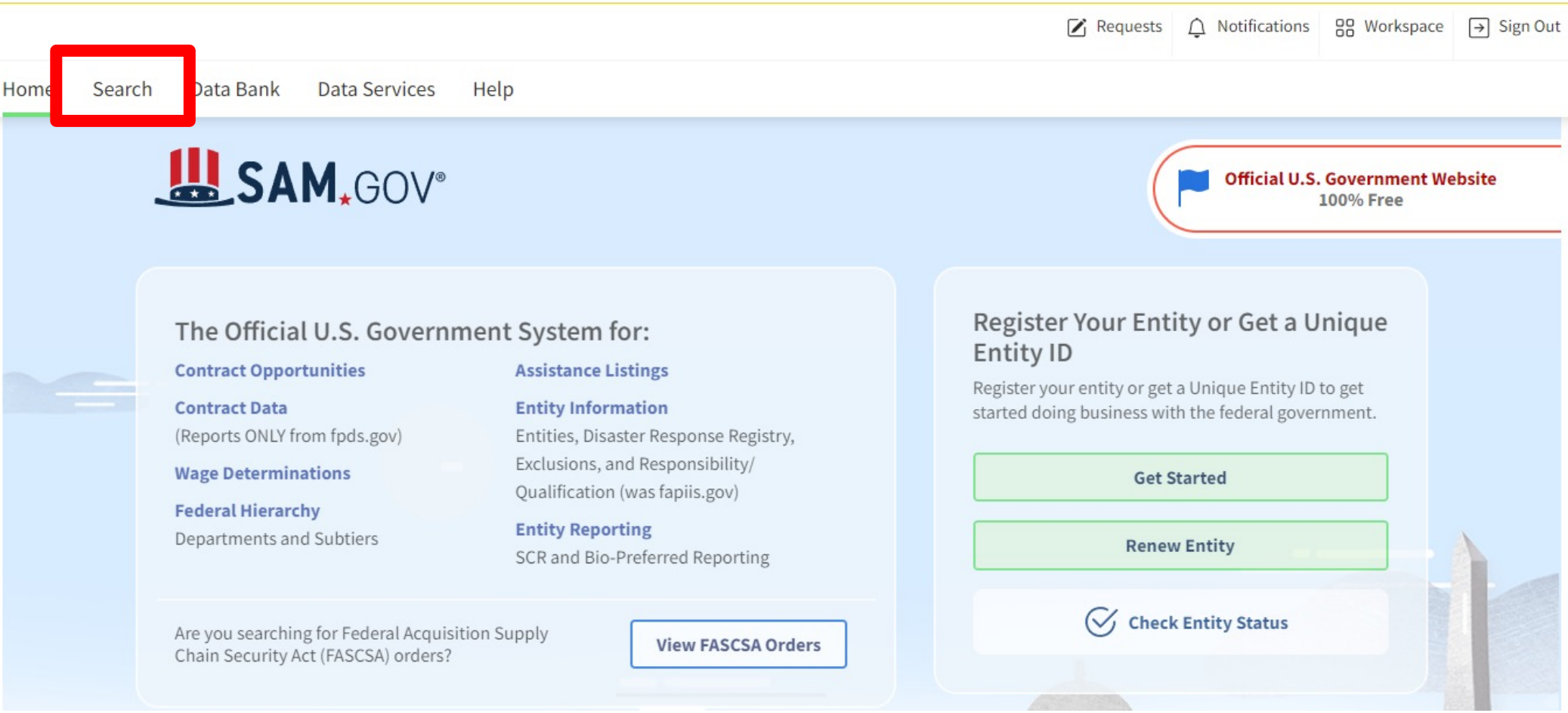
The Requirement Title Column can be filtered down further to identify JX requirements.
JXM, JXN, JXQ, JXR, JXY, JXV

| Requirement Title | Requirement Description |
|---|---|
| N00164-25-RFPREQ-CR-JXM-0006 | Engineering Seaport follow-on (F3020) |
| N00164-25-RFPREQ-CR-JXM-0102 | AESIR Engineering Services |
| N00164-25-RFPREQ-CR-JXM-0007 | DCS Family Battery Engineering Services - L.Ruckriegel |
| N00164-25-RFPREQ-CR-JXM-0008 | DCS Family BMS and Spares - L.Ruckriegel |
| N00164-25-RFPREQ-CR-JXM-0009 | DCS Family BMS Engineering Services - L.Ruckriegel |
| N00164-25-RFPREQ-CR-JXM-0012 | LR6 and LR200 Cells - C.Shaughnessy |
| N00164-25-RFPREQ-CR-JXM-0010 | DCS Family Battery and Spares - L.Ruckriegel |
| N00164-24-RFPREQ-CR-JXN-0045 | Award a Seaport contract for Professional, Engineering, and Technical Support for Small Arms platform and Integration and life-cycle engineering |

Current LRAE FY2024 Q4 - has 64 actions for JX requirements and expected to continue to grow with Non-Far requirements

NAVSEA
WARFARE CENTERS
CRANE

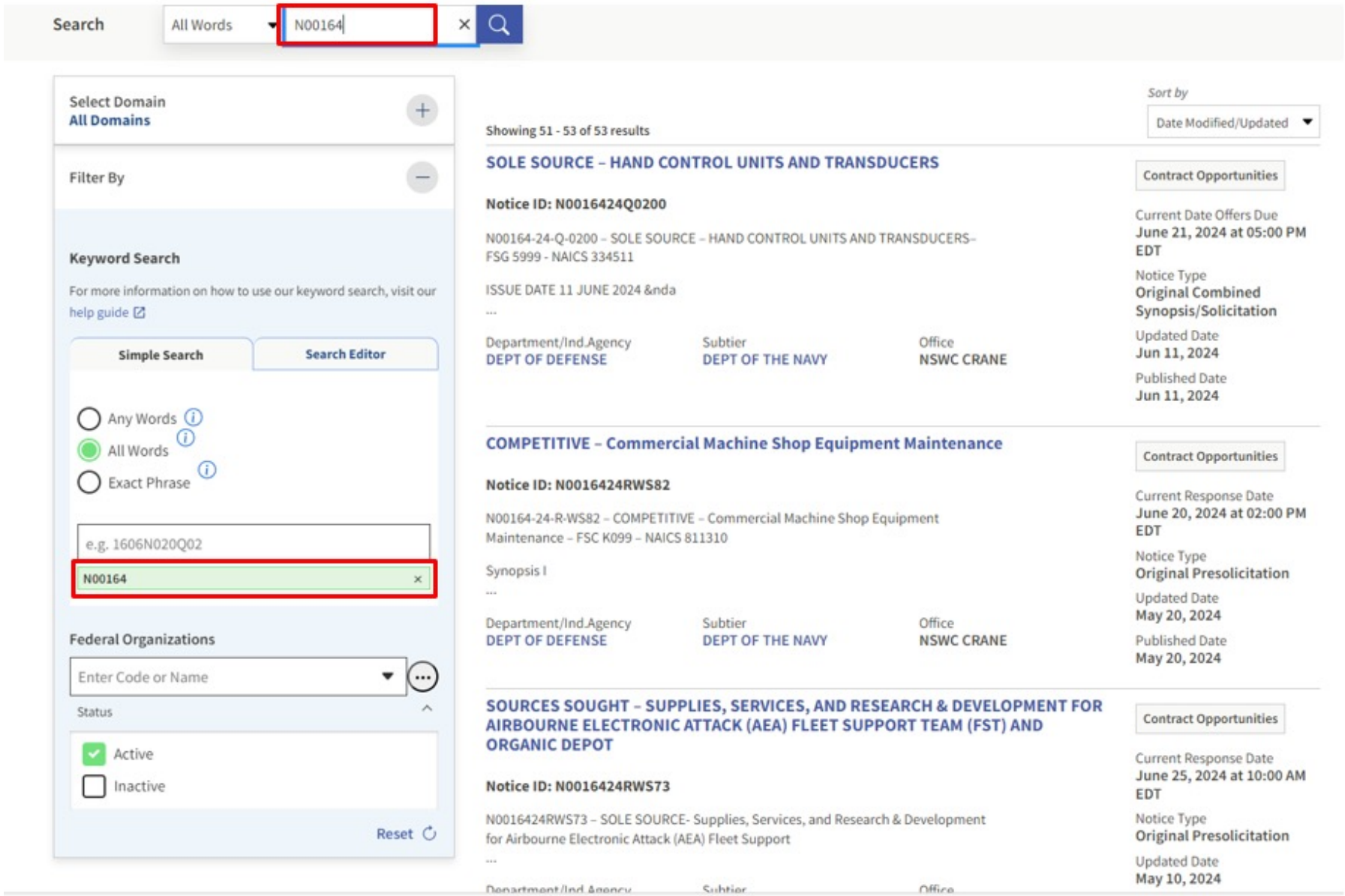
# System for Award Management (SAM.GOV)




https://sam.gov/content/home

NAVSEA
WARFARE CENTERS
CRANE

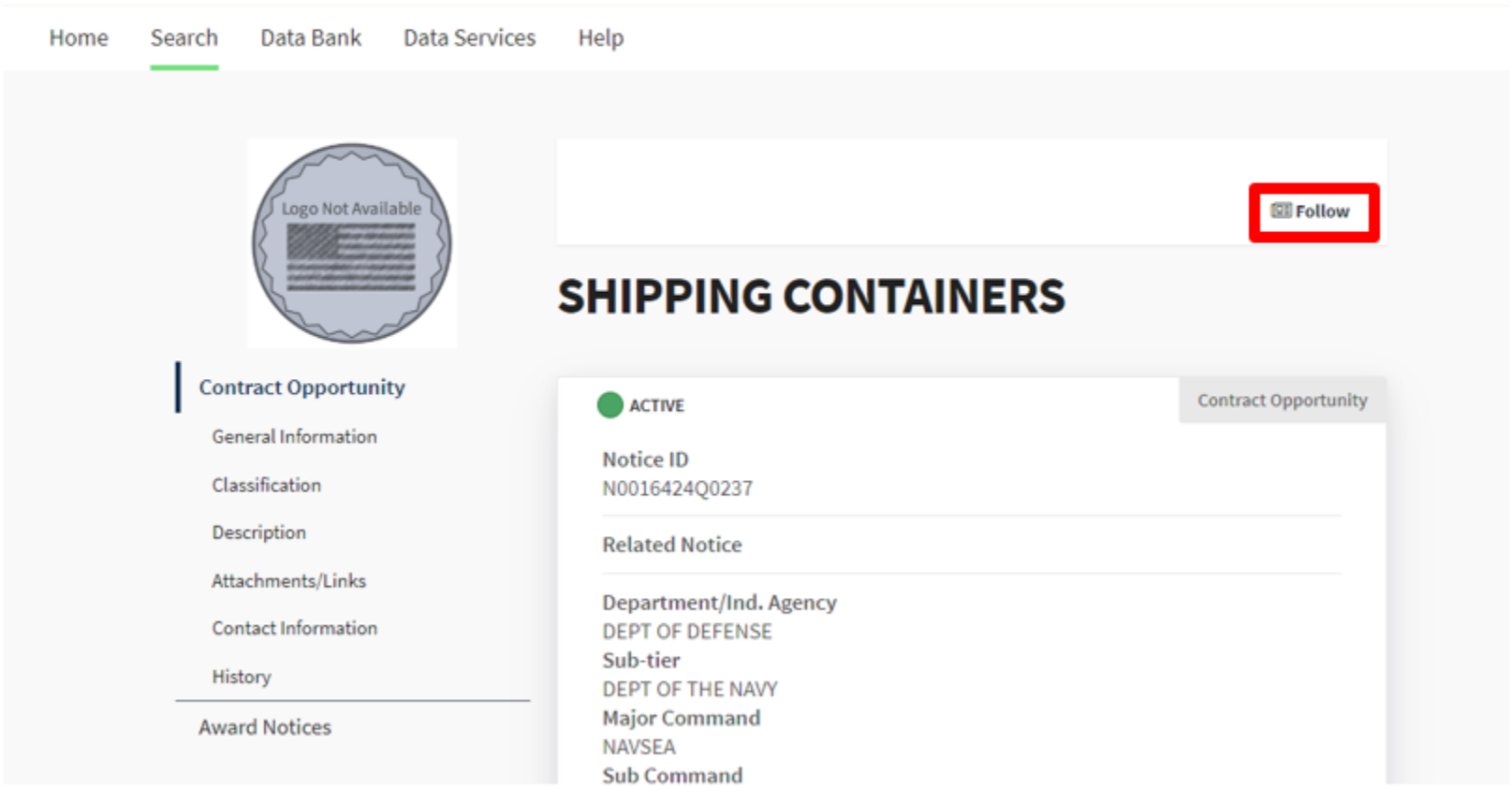
# SAM.GOV Cont.



NAVSEA WARFARE CENTERS

# SAM.GOV Cont.

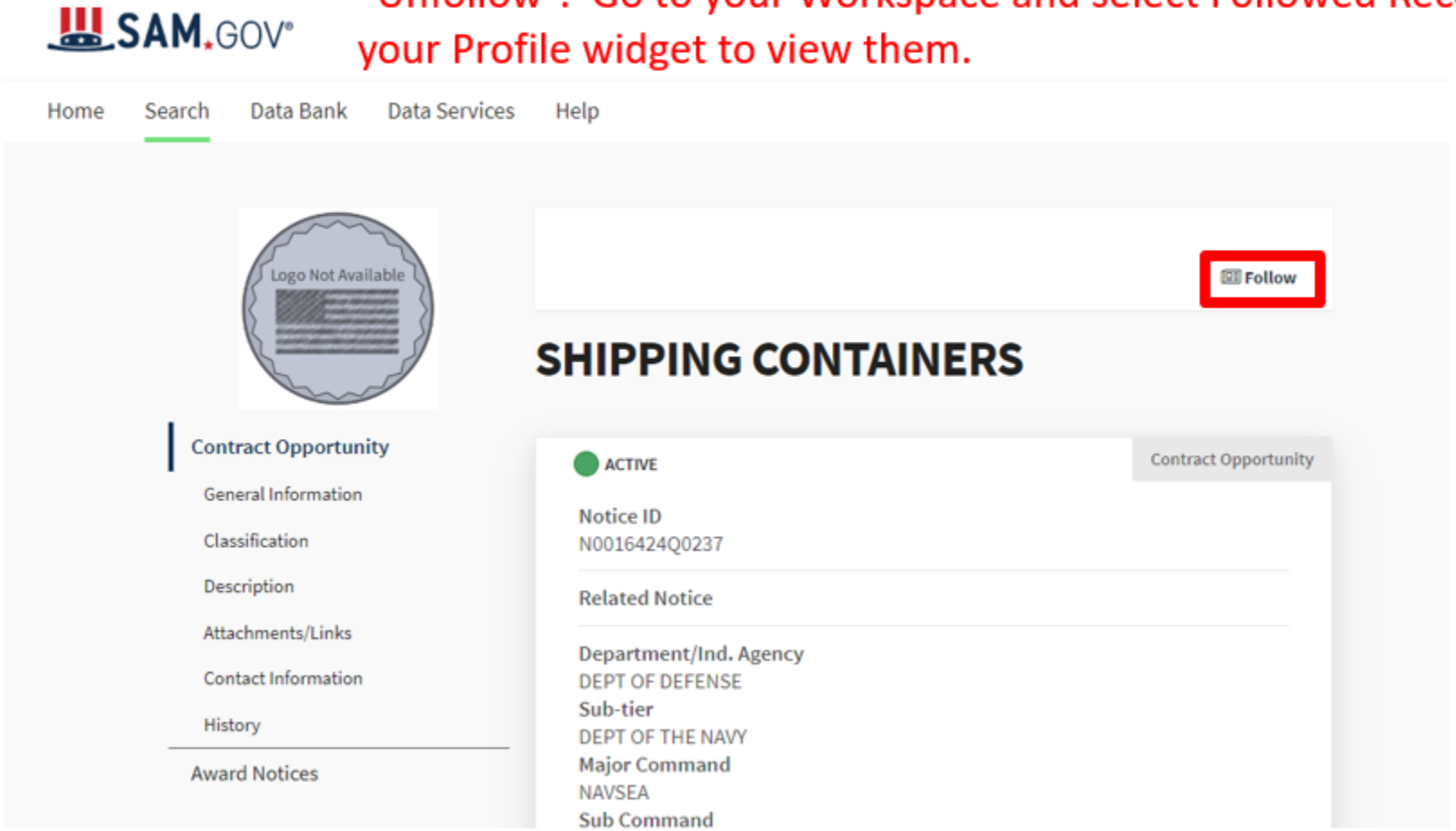
If you desire to keep up on this action and get updates on the requirement, click Follow. Once completed, it will change to "Unfollow". Go to your Workspace and select Followed Records from your Profile widget to view them.



NAVSEA WARFARE CENTERS CRANE

# SAM.GOV Cont.

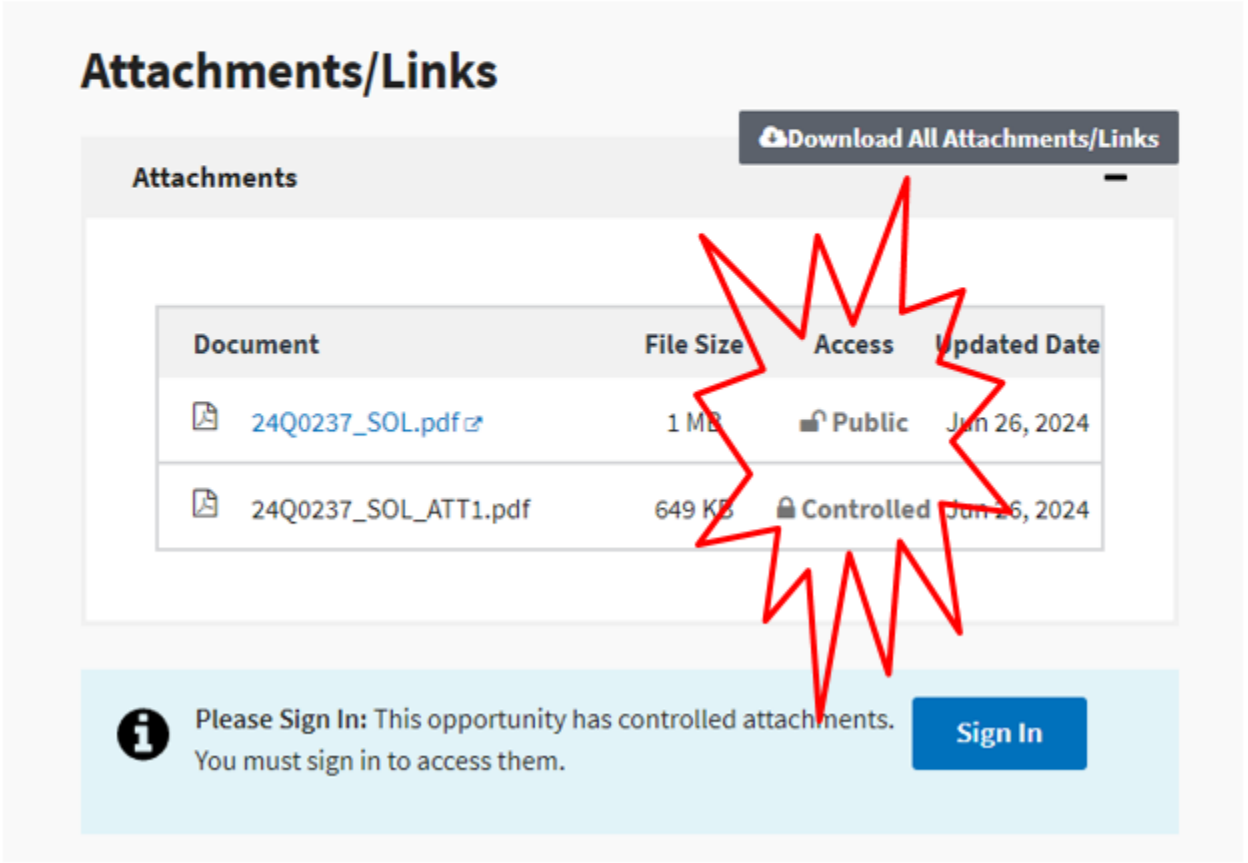
If you desire to keep up on this action and get updates on the requirement, click Follow. Once completed, it will change to "Unfollow". Go to your Workspace and select Followed Records from your Profile widget to view them.



NAVSEA
WARFARE CENTERS
CRANE

# SAM.GOV Cont.

Please pay close attention to any attachments posted. There maybe some attachments that can be seen by the public as they are distribution statement A. All other distribution statements access will be controlled. Prior to being allowed access your company **MUST** be **ACTIVE** in the Joint Certification Program (JCP) Database.



NAVSEA WARFARE CENTERS CRANE

# Joint Certification Program (JCP)

DEFENSE LOGISTICS AGENCY
THE NATION'S COMBAT LOGISTICS SUPPORT AGENCY

Search Defense Logistics Agency

HOME | WHAT DLA OFFERS | WORKING WITH DLA | ORGANIZATIONS | CUSTOMER SUPPORT | CAREERS | ABOUT DLA

for applications to the program.

count registrants must log into the JCP Portal at least every 35 days to keep their accounts active. Accounts not active past 35 days will be disabled. A warning email from
y prior to your account being locked. If you find that your account is locked/disabled, please go to the DACS Portal: https://www.public.dacs.dla.mil/portal/ and click the "U
will need to provide your username and email address to unlock/enable your JCP Portal account.

HOME > LOGISTICS OPERATIONS > SERVICES > JCP

- Logistics Operations Home
- About
- Kitting
- Packaging +
- **Services** −
  - LOLA Classic
  - Customer Outreach
  - **Joint Certification Program**
- Training and Reference +
- Enhanced Validation

## Joint Certification Program (JCP)

**Access the Joint Certification Program (JCP) Portal**

JCP Portal Access Guide (PDF)

### Pre Submittal Requirements:

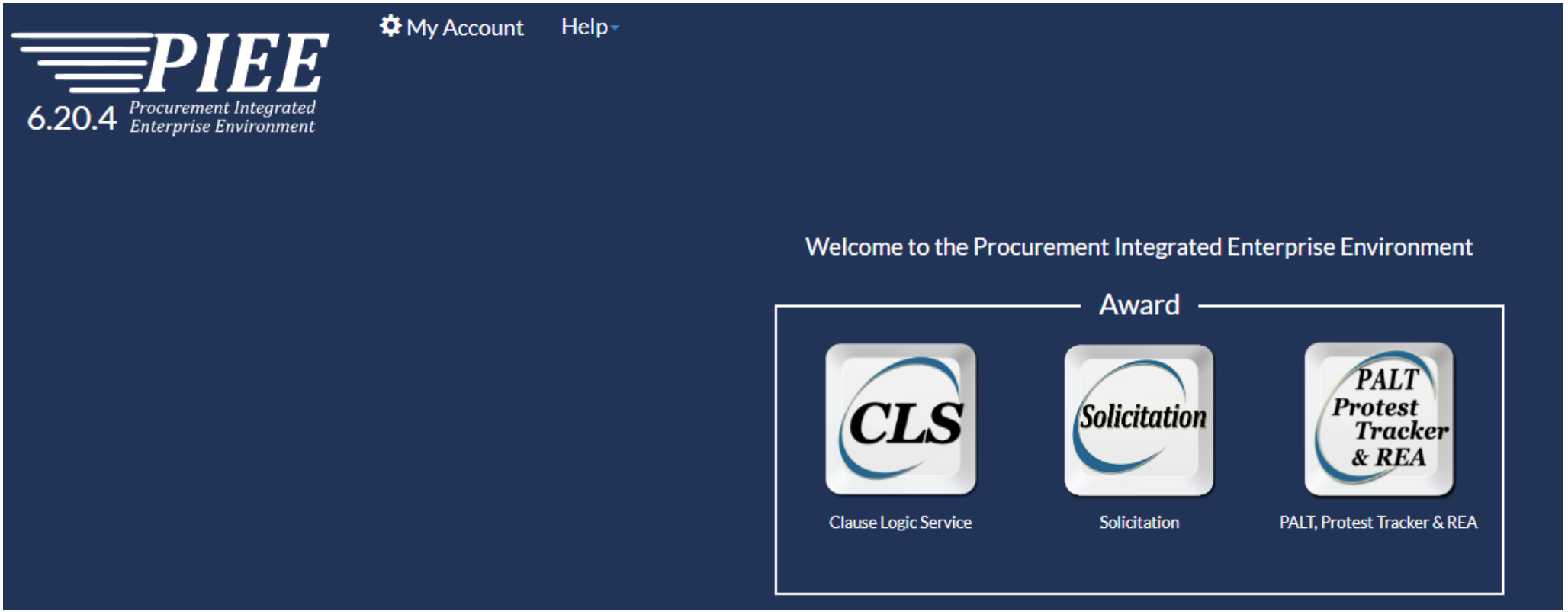
- Complete National Institute of Standards and Technology (NIST) assessment and upload it to Supplier Performance Risk System (SPRS).
- SAM registration is updated and correct.
- Review Introduction to Proper Handling Training(PDF)
- Google Authenticator application used for two factor authentication.
- Further instruction can be found below, General Instructions as well as instructions specific to U.S Applicants and Canadian Applicants.

https://www.dla.mil/Logistics-Operations/Services/JCP/

NAVSEA
WARFARE CENTERS
CRANE

# PIEE Solicitation Module

The PIEE Solicitation Module is currently being tested by some NSWC Crane Code 02 Branches. In the future, there will be a mandatory shift to using PIEE Solicitation Module

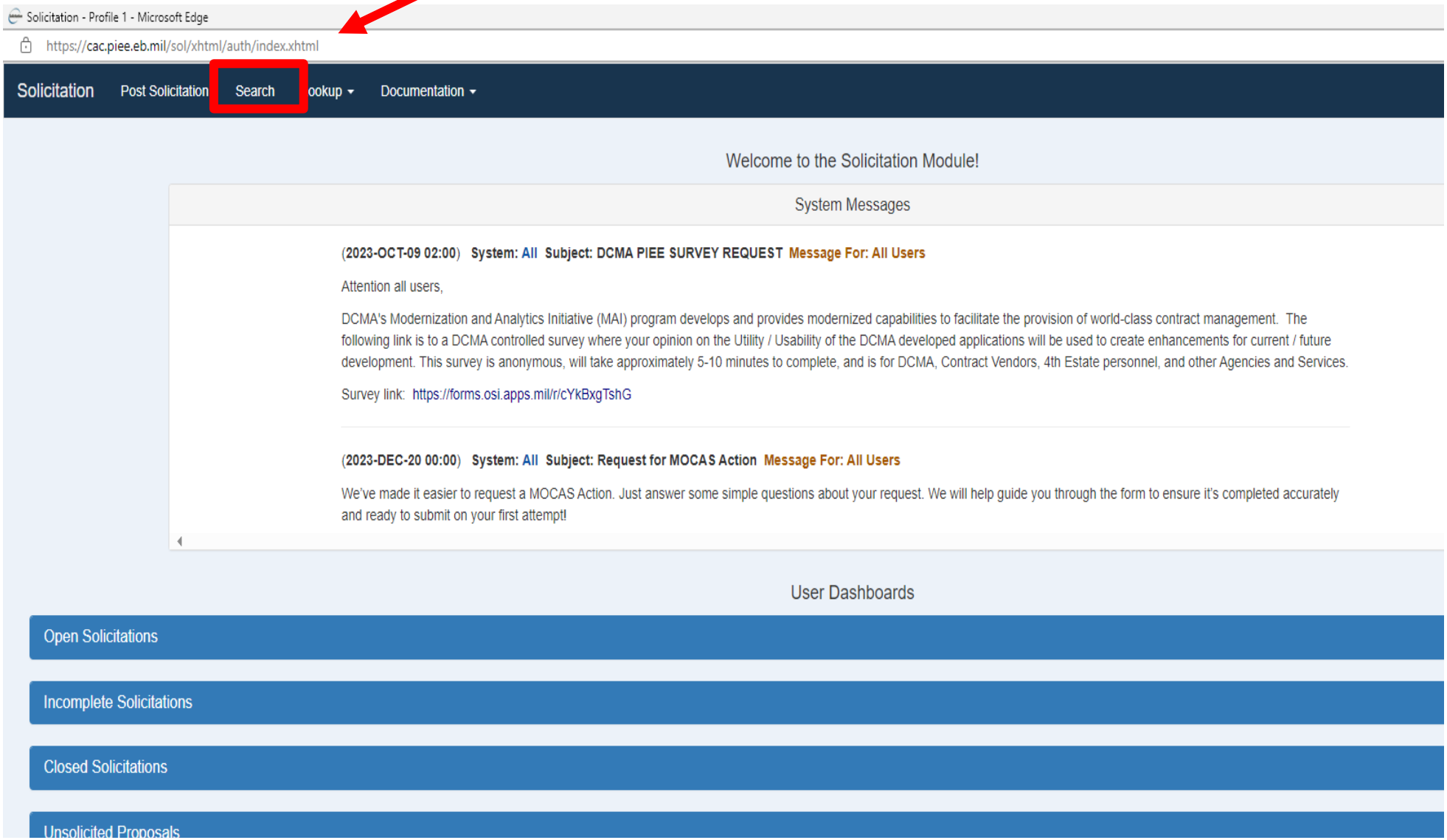



https://cac.piee.eb.mil/xhtml/unauth/home/login.xhtml

NAVSEA
WARFARE CENTERS
CRANE

# PIEE Solicitation Module Cont.

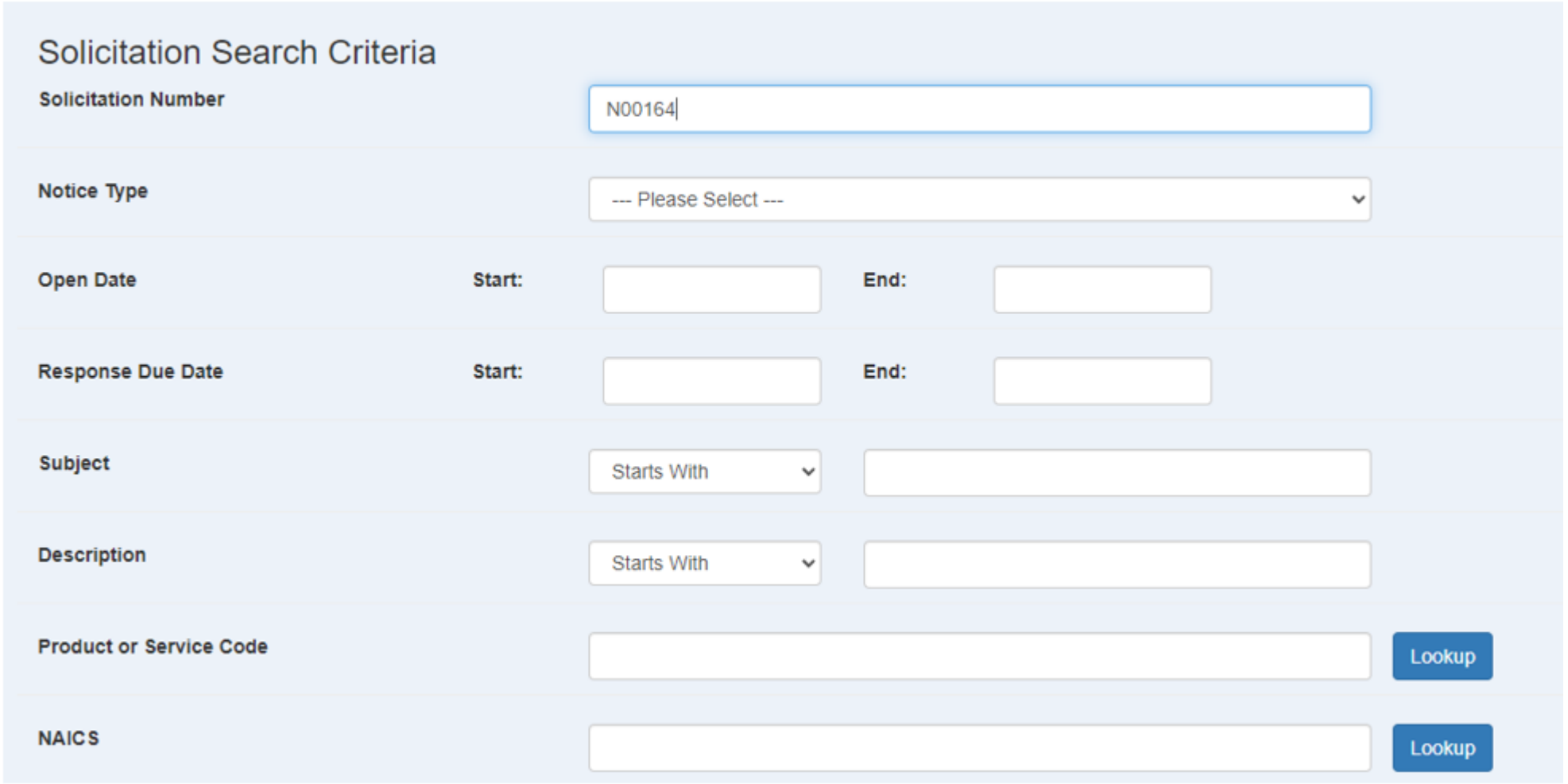
Disregard the bottom features. Click Search



NAVSEA
WARFARE CENTERS
CRANE

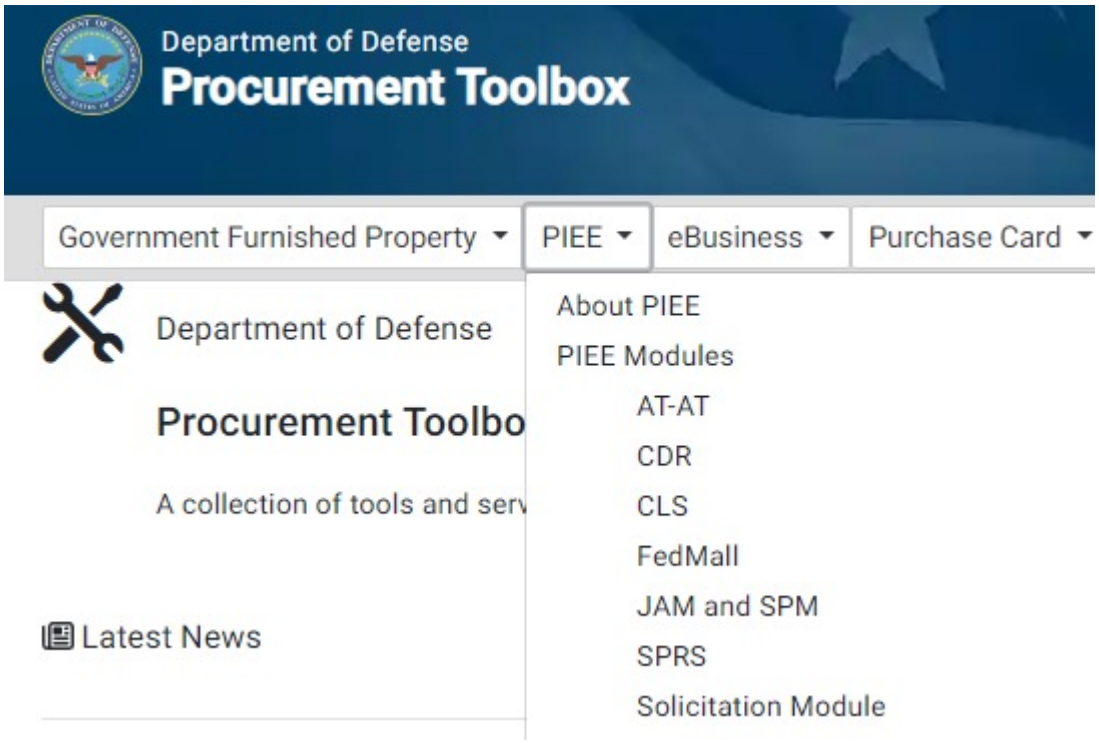
# PIEE Solicitation Module Cont.

Enter N00164 and click Search (not visible on the screenshot) – see bottom of the webpage.



NAVSEA
WARFARE CENTERS
CRANE

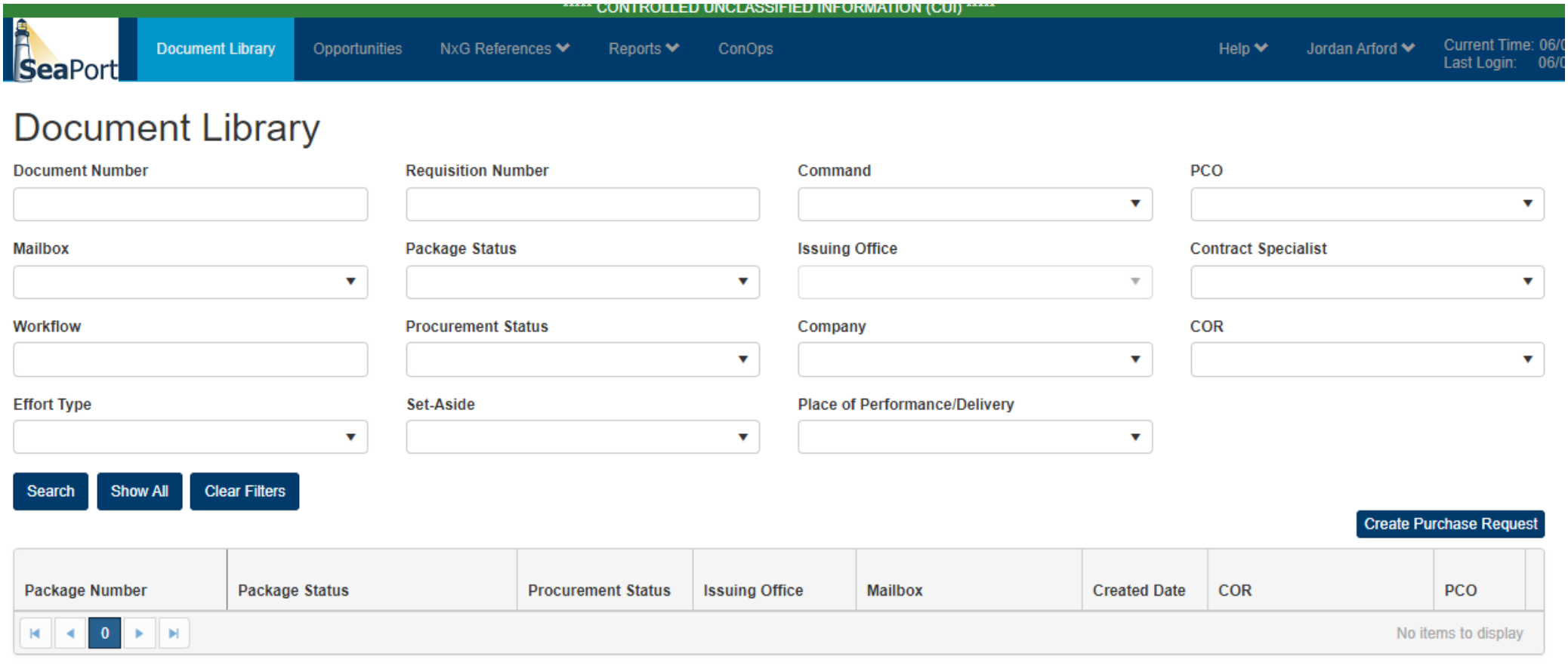
# DoD Procurement Tool Box




Please visit the DoD Procurement Tool Box for Solicitation Module Training prior to mandatory implementation at https://dodprocurementtoolbox.com/site-pages/solicitation-module

NAVSEA
WARFARE CENTERS
CRANE

# Seaport NxG

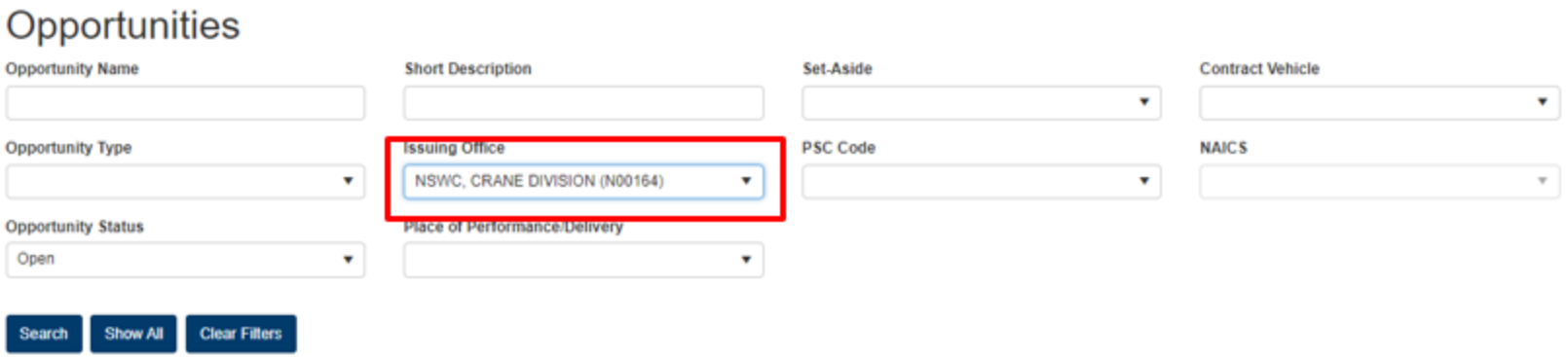



https://govnxg.seaport.navy.mil/Authentication/CacLogin?ReturnUrl=%2f1%2fAuthentication%2fCacLogi

NAVSEA
WARFARE CENTERS
CRANE

# Seaport NxG Cont.

The Opportunity Name will be the solicitation number. If you want to see all NSWC Crane requirements, filter the Issuing Office to N00164 and click Search




Under Opportunity Type you can search for Solicitations, Sources Sought/RFI, Advance Notice/Draft, Other (FY24 Planning Matrix).

NAVSEA
WARFARE CENTERS
CRANE

# Broad Agency Announcement (BAA)

- Search **N0016424SNB35** on SAM.GOV

- This announcement seeks revolutionary research ideas, and technology demonstrators that offer potential for advancement and improvement of NSWC Crane's primary mission areas. This BAA is issued to seek innovative solutions and ideas for topics not covered via other means.

- Proposal(s) could result in full funding, some, or none.
- Abstract Due Date: Abstracts may be submitted on a rolling basis
- Proposal Due Date: Proposals may be submitted on a rolling basis
- Closing Date: Not Applicable at the time of initial posting

NAVSEA
WARFARE CENTERS
CRANE

# BAA Assigned Technical Capabilities (TC)

1. Electronic Warfare (EW)
2. Infrared and Pyrotechnic Countermeasures
3. Strategic Systems Hardware
4. Expeditionary Warfare and Systems
5. Advanced Electronics
6. Sensors and Surveillance Systems
7. Hypersonic Weapon Systems
8. Power and Energy Systems
9. Electro-optic and Infrared Technologies
10. Force level EW Mission Analysis, Advanced Concepts and Technologies

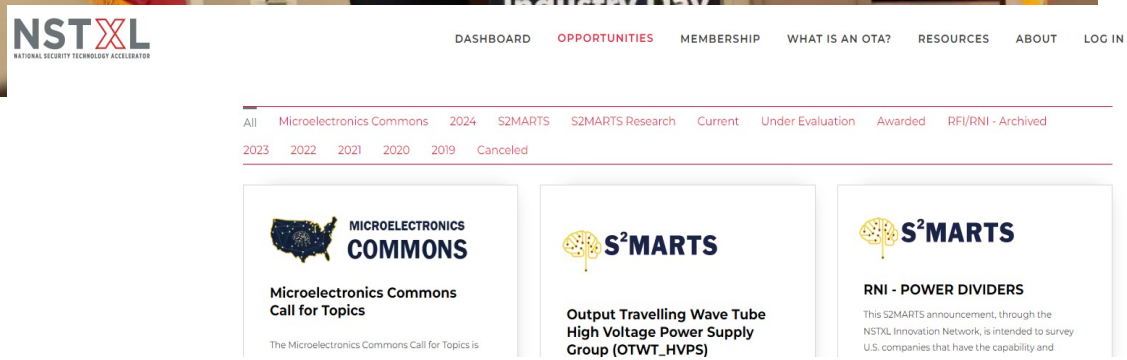
- Within each of the TCs, there are multiple thrust areas, which present considerable opportunities for innovative research and solutions to support national security imperatives.

NAVSEA WARFARE CENTERS CRANE

# S²MARTS OTA Consortium at NSWC Crane

NSTXL NATIONAL SECURITY TECHNOLOGY ACCELERATOR

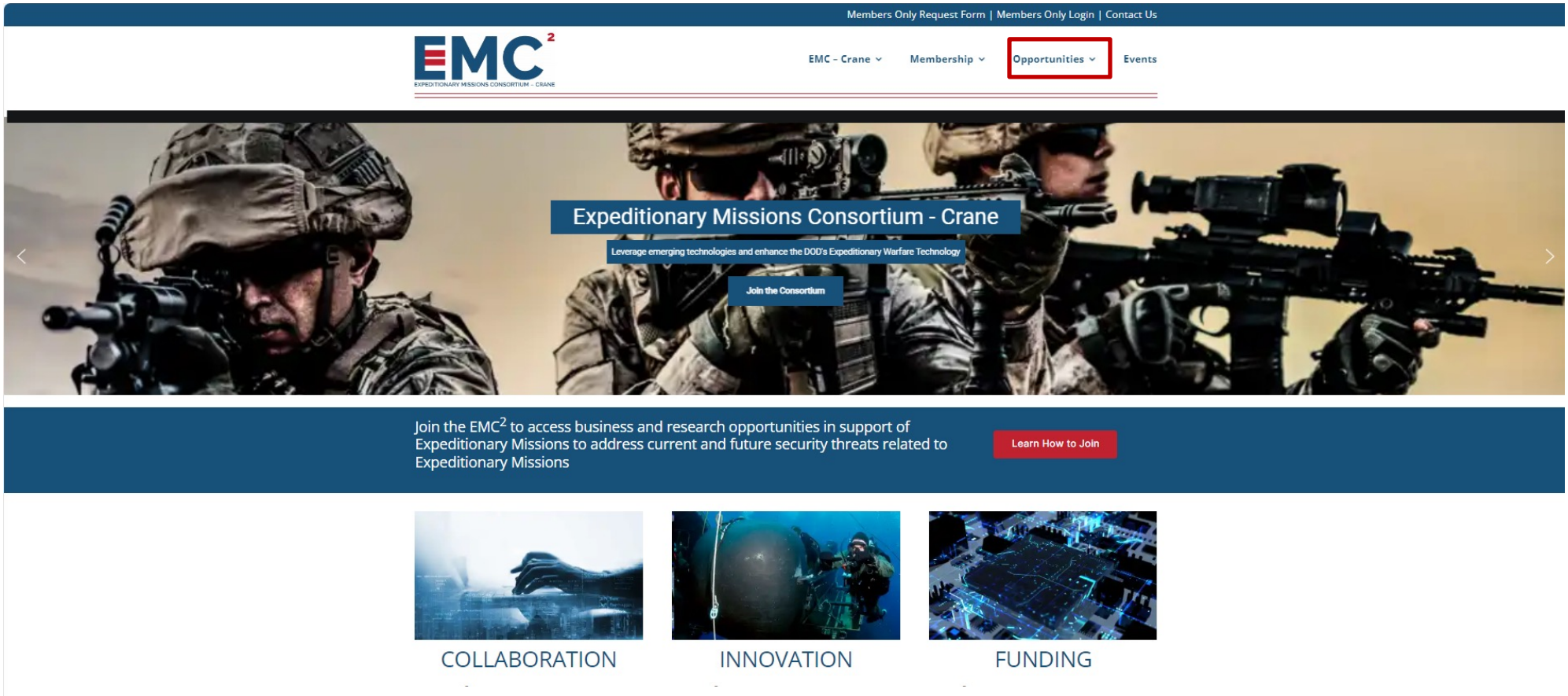
DASHBOARD | OPPORTUNITIES | MEMBERSHIP | WHAT IS AN OTA? | RESOURCES | ABOUT | LOG IN




https://nstxl.org/nstxl-opportunities/

NAVSEA
WARFARE CENTERS
CRANE

# EMC² OTA Consortium at NSWC Crane




## Visit emccrane.org for more information.

### Membership questions?

### Come see us today or email emc@ati.org.

NAVSEA WARFARE CENTERS

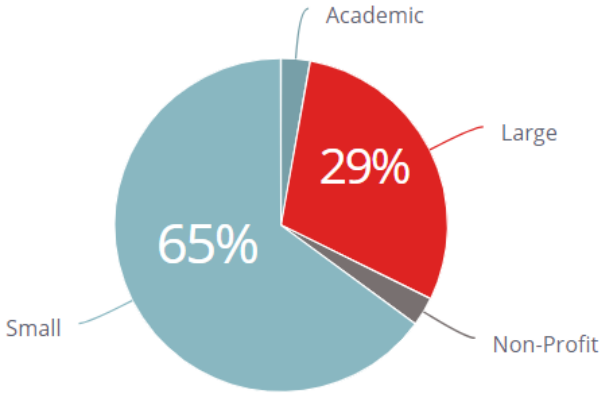
# Consortium Membership

NAVSEA WARFARE CENTER CRANE
EXW
EXPEDITIONARY WARFARE

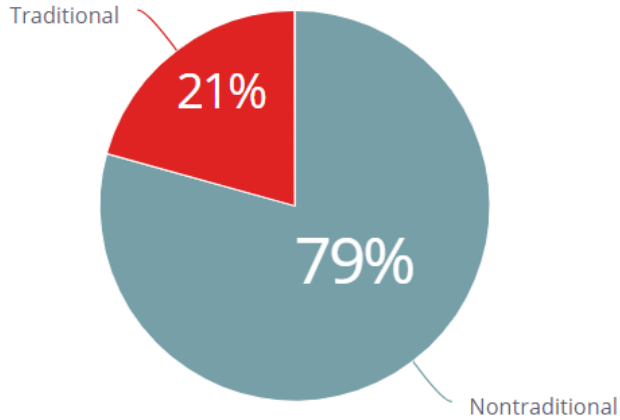
EMC²
EXPEDITIONARY MISSIONS CONSORTIUM – CRANE

Active Members
285

Active Members by Business Class




Traditional/Non-Traditional Member Status




## 40 States Represented

NAVSEA
WARFARE CENTERS
CRANE

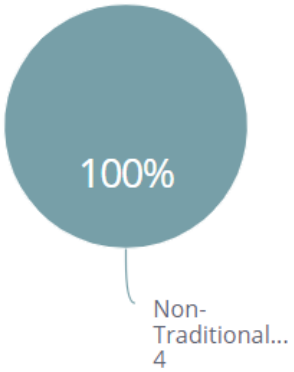
# Awards

- Total Awarded Ceiling and Funding:
  - $48.0M Ceiling
  - $9.6M Funding

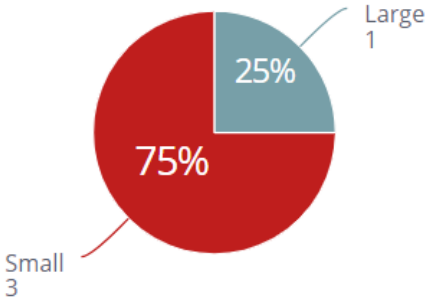
EMC²
EXPEDITIONARY MISSIONS CONSORTIUM – CRANE

- Base Agreement Award Date: 10 October 2023
- Customer Base: Emphasis on Expeditionary Missions; (e.g. JX Divisions/USMC/SOCOM)

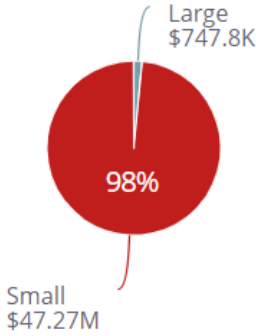
Awards by T/NT Status



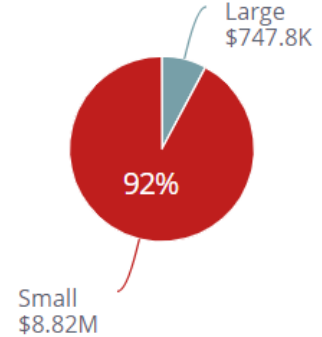

Awards by Class




Awarded Ceiling by Class




Awarded Funding by Class




- Expeditionary Warfare Technologies
- Materials & Processes
- Manufacturing Technology
- Modeling & Simulation

- Verification & Validation
- Multispectral Sensing
- Design Assurance
- Outreach & Standards

- Outreach & Standards
- Artificial Intelligence / Machine Learning
- Spectrum Warfare Technologies

NAVSEA WARFARE CENTERS CRANE

EMC² EXPEDITIONARY MISSIONS CONSORTIUM – CRANE

# Consortium Management Team

## Advanced Technology International (ATI)

**Chris Miller**
Sr. Project Manager

**Quinn Holyfield**
Program Manager

**Kevin Pate**
Sr. Program Manager

**Next Event: Defense Tech Connect – December 3rd-5th, 2024; Austin, TX**

Membership questions?
Come see us today or email emc@ati.org.

# Connect to Mission

## Acquisition Approach Panel

CRANE REGIONAL DEFENSE GROUP

# Connect to Mission

# THANK YOU

CRANE REGIONAL
DEFENSE GROUP

# Connect to Mission

# FOLLOW, LIKE, SHARE, ENGAGE!

Twitter: @TheCRDG

LinkedIn: Crane Regional Defense Group

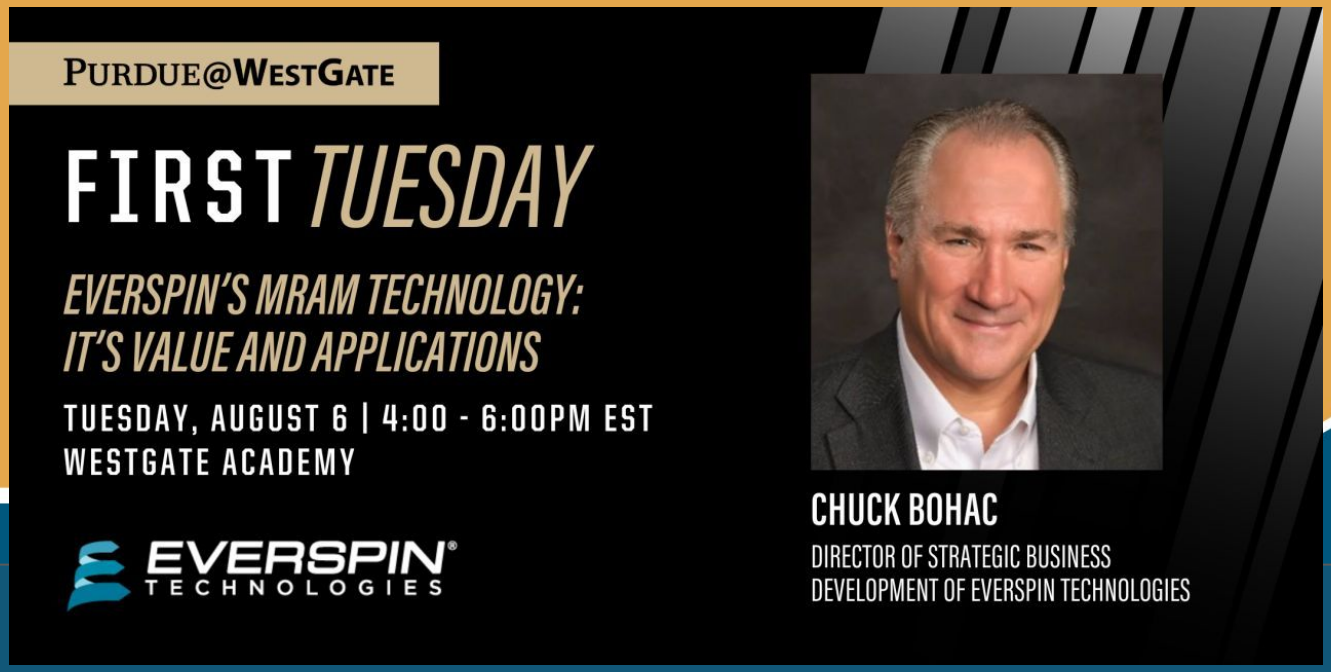
CRANE REGIONAL DEFENSE GROUP

# Connect to Mission

# THANK YOU

**Purdue Research Foundation's First Tuesday event featuring:**

**Chuck Bohac, *Director of Strategic Business Development, Everspin***




CRANE REGIONAL DEFENSE GROUP

# Connect to Mission

# SAVE THE DATE

## FINAL C2M of 2024: Tuesday, Nov. 5

### Featuring: Team Crane &

### NSWC's Business Departments

CRANE REGIONAL DEFENSE GROUP