Connect to Mission February 4, 2025 Featuring: NSWC Crane's

Spectrum Warfare Department





- NSWC Crane Command Welcome: CAPT Rex Boonyobhas, Commanding Officer, NSWC Crane
- Spectrum Warfare Department: Stacey Mervyn, SSTM
- **Division Manager Panel 1:** *Mr. Dave Kuhlman, Deputy Director, Spectrum Warfare Department* (Facilitator)
- CRDG Five Star Members: Radius Indiana & Kratos
- Contracting Department Panel: Marissa Graber, 0242 Contracts Branch Manager (Facilitator)
- Networking Break
- CRDG Five Star Members: Amentum & Booz Allen
- **Division Manager Panel 2:** *Mr. Dave Kuhlman, Deputy Director, Spectrum Warfare Department* (Facilitator)
- Networking Break
- CRDG Five Star Member: HII
- U.S. Small Business Administration: Lindsay Maliqi, Outreach and Marketing Specialist
- Lunch
- One-on-one Networking Sessions
- · Closing



Crane Regional Defense Group

C2M EVENTS

May 6, 2025 | NSWC Global Deterrence & Defense Department

October 7, 2025 | Special Warfare & Expeditionary Systems Department

December 2, 2025 | Team Crane









Connect to Mission

NSWC Crane

CAPT Rex Boonyobhas, Commanding Officer, NSWC Crane



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Spectrum Warfare Department

Stacey Mervyn, SSTM



Spectrum Warfare Department (WX) C2M Brief Presented by: Stacey Mervyn, SSTM

CAPT Rex Boonyobhas, USN Commanding Officer

Dr. Angela Lewis, SES Technical Director

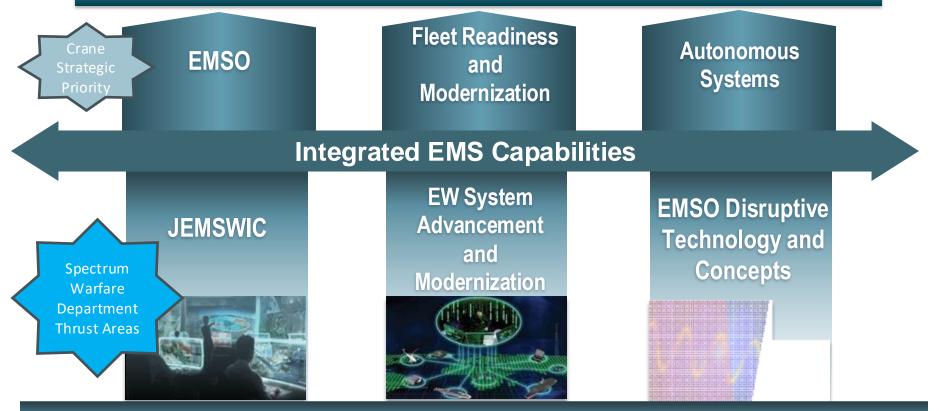


CRANE



Spectrum Warfare Department Strategic Objectives

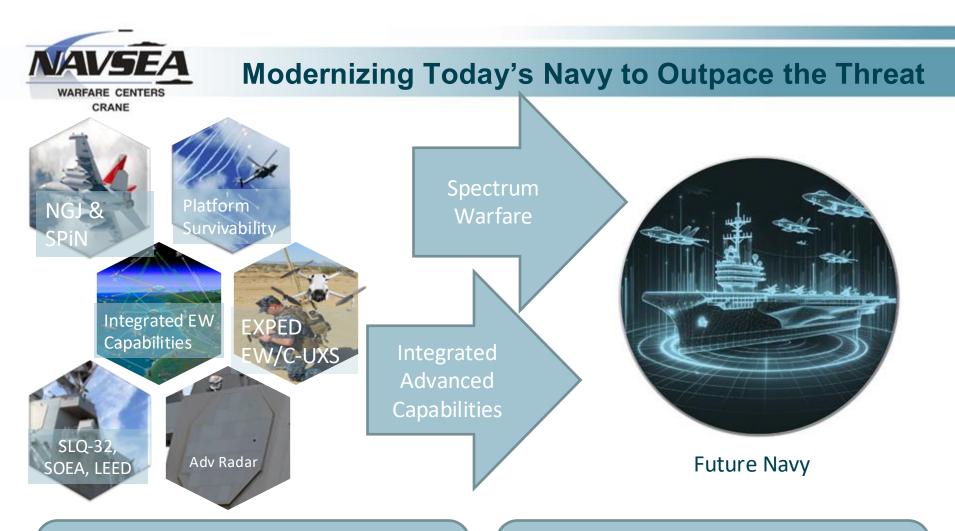
NATIONAL LEADERS IN ELECTROMAGNETIC SPECTRUM OPERATIONS



Spectrum Department Experience, Infrastructure, Capability, Leadership







Future-Focused EW System modernization, and Advancement. Ensuring the fleets current and future EW systems and RADARs are supported and outpacing the EMS Threats. SWD Provides the expertise and resources to support the advancement and readiness of critical EW warfighter system with the development and integration of new capabilities to ensure warfighter success in a congested EMSO environment.

EW System Advancement and Modernization



WARFARE CENTERS CRANE

> In a resource constrained environment, where the demands from the fleet only grow, we will have to change and innovate the way we support the fleet. We will have to leverage our contract partners to ensure we meet the continued demands.

Leveraging Software Defined and Open architectures to Leverage waveforms and techniques across fielded and new systems.

Focus Engineering Effort on outpacing the threat!

Techniques





National Leaders in Force Level EW for Department of Defense

"We recognize that we will never fight alone. We will advance <u>naval integration</u> with the Marine Corps, and synchronize and align our warfighting efforts with the <u>Joint Force</u>. We will design and drive interoperability with our Allies and partners to <u>deliver combined</u> <u>lethality</u>." Admiral Lisa Franchetti, CNO

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Division Manager Panel #1

Mr. Dave Kuhlman, Deputy Director, Spectrum Warfare Department (Facilitator)



Maritime Electromagnetic Warfare Systems Division (WXM) C2M Brief Presented by: Chuck Fravell

CAPT Rex Boonyobhas, USN **Commanding Officer**

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



CRANE

AVSEA Maritime Electromagnetic Warfare Systems Division

WARFARE CENTERS CRANE

SEAPORTS

- Current
- Operations SEAPORT
- Product Support
 - Awarded Q4/FY23 3 year POP

Large Contracts

- Waterfront
- Split-scope Installations
- Various OEM Support
- GSA FEDSIM

<u>Other</u>

DTICS



Maritime Electromagnetic Warfare Systems Division Surface Electronic Warfare Improvement Program (SEWIP): AN/SLQ-32

Pending

- OTA
- Large System Integration Spaces

CSS Skills

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Future

<u>Traditional</u>

- Engineering
- Product Support
- Project Management

<u>Future</u>

- Data Analytics
- AI/ML
- Product Support Digitalization
- Supply Chain Integrity

NAVAL SURFACE WARFARE CENTER GRANE DIVISION

Airborne Electronic Attack Systems Division (WXS) C2M Brief Presented by: Chuck Young

CAPT Rex Boonyobhas, USN **Commanding Officer**

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



CRANE



Airborne Electronic Attack Systems Division

Challenge Areas:

- Opportunity Rich Environment
- Attracting/retaining talent

Facilities Constraints:

- Laboratory / Industrial Space (Secure)
- High Power Anechoic Chamber

Acquisition/Contracts:

- Preventative Mxt/Repair of Machine Shop Equipment. IDIQ. Competitive. FY2025
- Off-Site Depot Repairs of Airborne Electronic Attack Systems. Competitive. FY2026
- Contractor Support Services (CSS). Seaport Task Order. Competitive.. FY 2026
- Other Transactional Authority (OTA)

Opportunity Space:

- Electronic Attack Podded System Payloads
- Composites / Radomes
- RF Testing (Anechoic Chamber Testing) Multilevel Security
- Logistics (Navy) / Project Leadership
- Machine Learning / Artificial Intelligence
- Model Based System Engineering Development Support





Talent Needs:

- Business Professionals
 - Program Management
 - Experience with DoD Acq Programs and Processes
 - Logistics Analysts (DoD Product Support processes)
- Engineering- RF / EE / Comp E / ME / Specialty (PhDs)
 - Materials / Composites (Materials Eng)
 - Electronics / Mechanical Technicians
 - RF Testing
 - Avionics Electronic System and Mechanical Repair

NAVAL SURFACE WARFARE CENTER CRANE DIVISION

Radar Technologies Division (WXP) C2M Brief Presented by: Alan Erler

CAPT Rex Boonyobhas, USN Commanding Officer

Dr. Angela Lewis, SES Technical Director



CRANE



Radar Technologies Division

Mission Statement

Enhancing capability and readiness through full lifecycle support of RF technologies and radar systems.

Hardware Product Areas:

- Radar/COMM/EW Systems
- Antenna Systems
- Solid State Technologies
- Power Supply Technologies
- Microwave Components
- Digital Technologies

Challenge Areas:

- Opportunity Rich Environment
- End Strength
- Attracting/Retaining Talent

Facilities Constraints:

- Laboratory / Industrial Space (Secure)
- Limited Seating
- Anechoic Chamber Space
- Classified Environmentally Controlled Storage

Near Term Contracts:

- Engineering Seaport Services FY25 Q2
- DTIC IAC MAC FY25 Q2
- AN/SPY-1 Depot
 - COA #1 GSA Lease + Separate Services Contract
 - COA #2 OTA Approach



Core Competencies:

- Business Operations
 - Project Analysis, Acquisition, Document Control, Quality Assurance, Material Movement
- Product Support
 - Product Support Analysis TA-STD-0017
 - Life Cycle Sustainment Plan Development
 - Software Tool Experience
- Failure Analysis
- Sustainment Engineering
- Design and Development
- Modeling and Simulation
- Test and Evaluation

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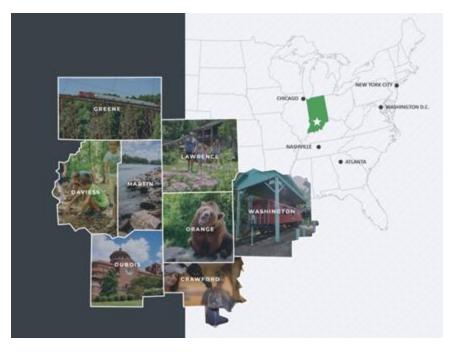
Five Star Members

Radius Indiana & Kratos Defense and Security Solutions





ECONOMIC DEVELOPMENT IN SOUTHERN INDIANA



Radius Indiana is a Regional Economic Development Organization representing eight counties in South Central Indiana:

- Crawford
- Daviess
- Dubois
- Greene
- Lawrence
- Martin
- Orange
- Washington.

We are the only REDO for a <u>**Rural region**</u> in the state!









ECONOMIC DEVELOPMENT IN SOUTHERN INDIANA











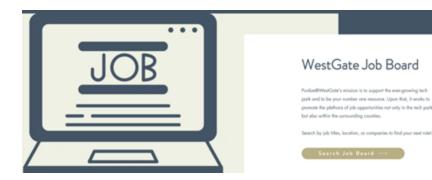
Defense Sector Program

Choose Southern Indiana's Defense Sector Program invests in incentive payments to new employees who are hired from out-of-state by local defense Industry businesses in the Indiana Uplands Region.

$\texttt{\#ChooseDefense} \longrightarrow$

To keep pace with the skilled workforce requirements for the Defense Sector throughout the Indiana Uplands (an 11-county region in southern Indiana including all 8 Choose Southern Indiana counties with 3 additional nearby counties), we're offering out-of-state defense industry workers \$5,000 to relocate to one of our 11 communities.





Program Requirements*

- Talent must fill a job in the defense sector
- The position must be physically located in the region; remote jobs are not eligible
- The position must pay at least \$60,000 annually
- May live in any Uplands community regardless of the location of the position
- Must reside in the region for a minimum of two years
- Must complete a residency affidavit on an annual basis for the two-year period



POPULATION AND TALENT ATTRACTION PROGRAM

Email: k.painter@radiusindiana.com Tel: 812-277-9778

CHOOSESOUTHERNINDIANA.COM











Kratos Defense & Security Solutions

Roger Becker Director NSWC Crane Operations 812-949-5440 Roger.Becker@KratosDefense.com NSWC Crane Spectrum Warfare Connect to Mission 4 February 2025

KRQTOS

READY FOR WHAT'S NEXT





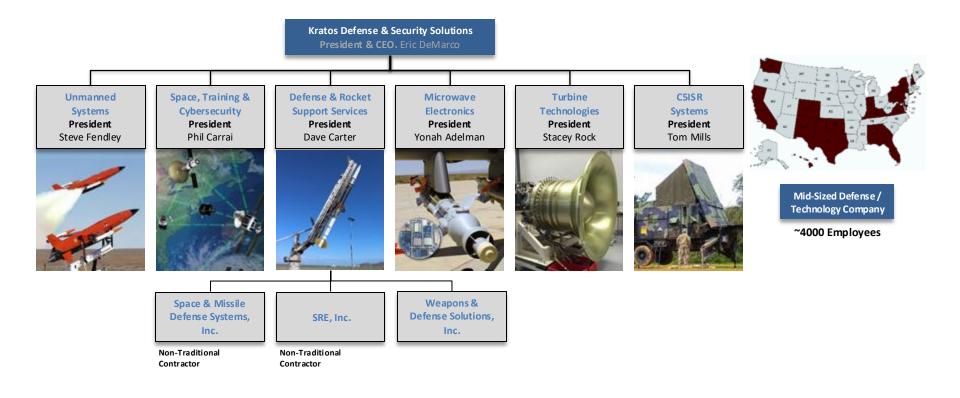
- Kratos is a TECHNOLOGY company in the aerospace and national security sectors and recognized as an industry THOUGHT leader and industry TECHNOLOGY leader
- Kratos Mission:
 - Be the disruptive change agent to the national security industry.
- Kratos Approach:
 - We use PROVEN, LEADING-EDGE technology, NOT unproven bleeding edge technology.
- Kratos develops and fields transformative, affordable technology, platforms and systems for United States National Security related customers, allies and commercial enterprises.
- Kratos specializes in virtualized ground systems for satellites and space vehicles; jet powered unmanned aerial drone systems; hypersonic vehicles and rocket systems, propulsion systems for drones, missiles, loitering munitions, supersonic systems, space craft and launch systems; C5ISR; and microwave electronics; and virtual & augmented reality training systems for the warfighter.





Kratos Corporate Organization

Delivering Responsive & Affordable Solutions to the Warfighter







Kratos – Primary Business Areas

Target	Missile Defense
Drones	Systems
Tactical	Hypersonic
Drones	Systems
Space & Satellite	Strategic
Communications	Deterrence
Microwave Electronics	Next Generation Engines for Drones/ Missiles





How Can Kratos Support NSWC Crane

- Hypersonics, Targets, Research and Test & Evaluation
- Directed Energy Prototypes
- Strategic System Test & Evaluation
- Radar Systems
- Microwave Electronics
- Modular ISR Sensor Systems
- Weapon System Technologies
- Trusted & Assured Microelectronics
- Advanced materials research
- Advanced and Hybrid Additive Manufacturing
- Systems engineering and signals processing





Next Generation Hypersonic Flight Systems

Leverage 137 Successful Flight Tests

- Low-Cost, Modular, Robust, Short Lead-Time Designs
- Boost-Glide, Air-breathing Hypersonic System Experience
- Successful Erinyes[™] Flight Foundation
- Reach back to DoD Enabling Technology Sponsors



MACH-TB 2.0 Program

Task Area 1 (TA1) Prime

- Program Management Office
- Systems Engineering
- Assembly Integration & Test
- Mission Planning & Execution
- Joint Working Groups
- Manage Launch Vehicle Providers







Demonstrated Experience in Hypersonic Flight Test





Indiana Payload Integration Facility (IPIF)



Commercial Payload Test & Evaluation Facility

- Supporting up to 6 parallel payloads (2 Top Secret classified)
- Meets U.S. DoD Demand Signal, augmenting Army White Sands Missile Range (WSMR) and NASA Wallops Flight Facility







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Contracting Department Panel

Marissa Graber 0242 Contracts Branch Manager (Facilitator)





NAVAL SURFACE WARFARE GENTER

CAPT Rex A. Boonyobhas COMMANDING OFFICER

Dr. Angela Lewis, SES TECHNICAL DIRECTOR

Controlled by: US Navy Controlled by: NAVSURFWARCENDIV CRANE IN, Code 024 CUI Category: PROC Dissemination Control: POC: Carson Polley



024 Spectrum Warfare Contracts Division Connect to Mission



INDUSTRY RESPONSES NEEDED

- Special Notice
- Request for Information
- Sources Sought
- Synopsis
- Industry responses help determine socio-economic path forward
 - Impacts of not responding
- Segregation of Tasks Request for Information/Sources Sought



CONTRACT SYSTEMS

- ePS new contract writing system
 - Large Contract documents will look different

- PIEE solicitation module
 - Required starting NLT October 2025
 - Procurement Integrated Enterprise Environment (PIEE)
 - Trainings available



OTA OVERVIEW - S²MARTS

Strategic & Spectrum Missions Advanced Resilient Trusted Systems (S²MARTS)

Key Points:

- Base Agreement #: N001641990001
- Base Agreement Award Date: 19 February 2019
- CM: National Security Technology Accelerator (NSTXL)
- Ceiling: None
- Solicitation Cycles: ADHOC, Take projects as they come (Typically 30 days)
- Goal PALT: 120 Days RFS Release to Award
- Est. # of Projects Submitted per year: Variable
- Authorities: Prototyping
- Status:
 - Membership Status: 800+ members, 85% non-traditional
 - Usage: All NSWCCR Departments
 - \$3.1B to date

Technology Focus Area

 The Strategic & Spectrum Missions Advanced Resilient Trusted Systems (S²MARTS) is the DoD's premier rapid OT contracting vehicle for flexible acquisition in trusted microelectronics, strategic & spectrum missions, and other critical mission areas. S²MARTS supports rapid prototyping and innovation with an agile, proven approach that gives the Government access to state-of-the-art technology solutions in support of the warfighter.



OTA OVERVIEW - EMC²

Expeditionary Missions Consortium – Crane (EMC²)

- Key Points:
 - Base Agreement #: N001642490001
 - Base Agreement Award Date: 13 October 2023
 - CM: ATI
 - Ceiling: None
 - Solicitation Cycles: ADHOC, Take projects as they come
 - Goal PALT: 120 Days RFS Release to Award
 - Est. # of Projects Submitted per year: variable
 - Authorities: Prototyping

Status:

- Membership Status: 190 members, 81% non-traditional
- Usage: Available to all NSWCCR Departments

Technology Focus Area:

 The Expeditionary Missions Consortium-Crane works to engage industry and academia to perform basic, applied, and advanced prototype projects in support of current and future needs related to Expeditionary Missions Technologies. The consortium addresses requirements in the areas of Power & Energy Systems; Specialized Munitions; Weapon Systems; Maneuver, Surveillance, & Engagement; Integrated Software; Command, Control, Communications and Information (C3i) & Cyber; and Electro-Optic Technology.



PROTOTYPE PARTICPATION REQUIREMENTS

• <u>One</u> of following are required:

1. There is at least one <u>nontraditional defense contractor</u> or <u>nonprofit research</u> <u>institution</u> participating to a <u>significant extent</u> in the prototype project.

2. Significant participants in the transaction are small businesses or nontraditional defense contractors.

3. At least one third of the total cost of the prototype project is to be paid out of funds provided by <u>sources</u> other than the federal government.

4. The senior procurement executive for the agency determines that exceptional circumstances justify the use of a transaction that provides for innovative business arrangements or structures that would not be feasible or appropriate under a contract, or would provide an opportunity to expand the defense supply base in a manner that would not be practical or feasible under a contract.



NON-TRADITIONAL DEFENSE CONTRACTOR

• Non-Traditional Defense Contractor (NDC)

- An entity that is not currently performing and has not performed, for at least the one-year period preceding the solicitation of sources by DoD for the procurement or transaction, any contract or subcontract for the DoD that is subject to full coverage under the cost accounting standards prescribed pursuant to section 1502 of title 41 and the regulations implementing such section (see 10 U.S.C. 2302(9)).
- Most entities will find they qualify as Non-traditional Defense Contractors, because:
 - They are a small business exempt from CAS requirements
 - They exclusively perform contracts under commercial procedures
 - They perform exclusively under FFP contracts with adequate price competition
 - They perform less than \$50M in CAS covered efforts during the preceding cost accounting period



- Acquire quantities necessary for experimentation:
 - Technical evaluation
 - Assessment of operational utility
 - Maintain a residual operational capability
- Allows for acquisitions in the following areas:
 - Transportation
 - Energy
 - Ordnance
 - Signal
 - Space-Flight
 - Aeronautical Supplies
 - Chemical Activity
 - Medical
 - Telecommunications



LONG RANGE BROAD AGENCY ANNOUNCEMENT (BAA)

- BAA #N0016424SNB35 Amendment 05
- Seeking revolutionary research ideas and technology demonstrators that offer potential for advancement and improvement of NSWC Crane's primary mission areas.
- Each Technical Capability encompasses multiple thrust areas supporting technology development and national security activities.



BAA – TECHNICAL CAPABILITIES

- 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



- Anticipated funding types: RDT&E 6.1, 6.2, 6.3, 6.4
- Types of instruments that may be awarded:
 - Procurement contract (FAR based)
 - Grant
 - Cooperative agreement
 - Other transaction
- NAICS code 541715
 - Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology).
 - Small business size standard of "1,000 employees."



- Funded amount and period of performance
 - Dependent on the technology area, the technical approach, and availability of funds.
- Proposals may be submitted on a rolling basis.
- Detailed proposal instructions are available in Appendix 1 & 2 of the BAA.

https://sam.gov/opp/de7c6858b6144d27af37235b4ea862b0/view



SMALL BUSINESS INNOVATION RESEARCH (SBIR)

- Purpose to strengthen the role of innovative SBCs (<500 employees) in Federally-funded research and development (R&D)
- Program goals are to:
 - 1. Stimulate technological innovation
 - 2. Use SBCs to meet Federal R&D needs
 - 3. Foster and encourage participation by socially and disadvantaged SBCs in technological innovation

4. Increase private sector commercialization of innovations derived from Federal R&D

 The Navy has 8 organizations actively participating (NAVSEA, NAVAIR, ONR, SSP, NAVWAR, MARCOR, NAVFAC, and NAVSUP)



SBIR – CRITICAL TECHNOLOGY AREAS

- FutureG
- Trusted AI and Autonomy
- Biotechnology
- Advanced Computing and Software
- Integrated Sensing and Cyber
- Directed Energy (DE)
- Hypersonics

- Microelectronics
- Integrated Network Systems-of-Systems
- Quantum Science
- Space Technology
- Renewable Energy Generation and Storage
- Advanced Materials
- Human-Machine Interfaces



SBIR PHASES



- Navy PMOs & Contracting Orgs
- Managed & Funded by the NAVSEA SBIR/STTR Program Office
 - · SBA adjusts cost ceilings each year for inflation



SBIR – RESOURCES & OPPORTUNITIES

https://www.sbir.gov

https://www.navysbir.com

15 U.S. Code § 638 - Research and development

Coming Soon DoD/Navy 25.4 Rel (5) SBIR		
Pre- release:	5-Feb-25	
Opens:	26-Feb-25	
Closes:	26-Mar-25 (12pm et)	







U.S. Small Business Administration



LONG RANGE ACQUISITION ESTIMATE

Requirement Description	Associated Program or Requirement Office	Anticipated Total Value (Including Options)	Anticipated Procurement Method	Anticipated Contract Type	Anticipated Procurement Instrument
Surface Electronic Varlate Improvement Program (SEVIP) Block 3 EMF-20				Concernance of	
Foam Tiles	NAVSEA IVS2	<\$2M	TEO	Fixed-Price	Single-Award Indefinite-Delivery
MK59 Nev Installations - 6 Ships	NAVSEA IVS2	> \$7.5M <4 \$50M	Full and Open Competition	TEO	C Type Contract
Seaport Product Support and Logistics Follow On For Maritime EV	NAVSEA IVS2	> \$50M-< \$100M	Full and Open Competition	Cost-Reimbursement	Delivery Order/Task Order (not under Federal Supply Schedule Contract)
V7 Quad Plate Assemblies (QPA) Support, facilities and technician support	NAVSEA IVS2	> \$7.5M-< \$50M	Full and Open Competition	Cost-Reinbursement	C Type Contract
AN/SPG-62 - New Manufacture Reflectors	NAVSEA IVS2	> \$7.5M - < \$50M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery
New manufacture of MK-82 Assemblies for MK-89 Depot	NAVSEA IV/S2	> \$7.5M - < \$50M	Full and Open Competition	Fined-Price	Single-Award Indefinite-Delivery
Overhaul of AMSPS-48, AMSPS-49, AMSPS-67, AM-SPQ-80, AMSPS-40, AMSPS-72, and AMSPS-58 radar anterna system and select below deck. AMSPS-49 radar equipment.	NAVSEA IVS2	> \$7.5M-< \$50M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery
Seaport Task order for Radar Division Logistics Services Contract - All Division Programs	NAYSEA IVSLIVS2, NAYSUP, USMC, USAF	> \$50M-< \$100M	Small Dusiness Set-Aside	Cost-Reimbursement	Delivery Order/Task Order (tor) under Federal Supply Schedule Contract)
Seaport Task order for VXP Division Engineering Services Seaport Contract	NAYSEA IVS1, IVS2, NAYSUP, USMC, USAF	> \$50M-< \$100M	Full and Open Competition	Cost-Reimbursement	Delivery Order/Task Order (not under Federal Supply Schedule Contract)
Line Replaceable Units (LRUs) Support for SPY-& Family of Radars (FoR) -	NAVSEA IVS2	> \$50M-< \$100M	Full and Open Competition	TEO	TEO
AM/SPS-49 Circulators & Isolators Follow On	NAVSEA IVS2	(\$2M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivers
SPS-67(V)3/5 Radome Manufacturing	NAVSEA IVS2	<82M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery
SPQ-98 Pol Fing Manufacturing	NAVSEA IVS2	> \$254-< \$7.5M	Full and Open Competition	Fined-Price	Single-Award Indefinite-Delivery
Hardware Kits to provide mandatory hardware in support of multiple Radar Restoration systems and subassemblies	NAVSEA IVS2	> \$50M~< \$100M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivers
Radar Restoration AC Motor Overhaul	NAVSEA IVS2	> \$2M - < \$7.5M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery
AM/SPS-67(V)1 Rotury Coupler	NAVSEA IVS2	(\$2M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery
Seaport technical and engineering support services task order Follow On	NAVSEA	> \$50M-< \$100M	Full and Open Competition	Cost-Reimbursement	Delivery Order/Task Order (not under Federal Supply Schedule Contract)
Field Service Representative (FSR) support and Other Direct Costs (DDC) for continuing FSR support to provide operational training, technical support, and maintenance.	NAVSEA	> \$7.5M - < \$50M	Full and Open Competition	Fired-Price	Single-Avaid Indefinite-Delivery
ALE-47 Dispenser Housing & Breechplates Followon	NAVAR	> \$2M - < \$7.5M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery
ALE-47 Dispenser Breechplate Follow-On	NAVAR	> \$2M-< \$7.5M	Full and Open Competition	Fired-Price	Single-Award Indefinite-Delivery
Procurement contract for spares, repairs and an upgrade option for Master Launcher Control Panels and Launcher Control Panels in support of the MK 59		> \$7.5M - < \$50M	Full and Open Competition	TEO	Single-Award Indefinite-Delivery
Seaport Engineering Services Task Order Follow On	NAYAR	> \$50M~<\$100M	Full and Open Competition	Cost-Reinbursement	Delivery Order/Task Order (not under Federal Supply Schedule Commun)
Preventive Maintenance/Repair of Machine Shop Equipment Follow On	NAVAR	> \$2M - < \$7.5M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery
OIF-Site Depot Repairs of Airborne Electronic Attack (AEA) Veapon Systems	NAVAR	> \$7.5M - < \$50M	Full and Open Competition	Fixed-Price	Single-Award Indefinite-Delivery

Disclaimer: All procurement information contained within the long-range acquisition estimates is subject to modification and is in no way binding on the Government. The long-range acquisition estimates, and any data contained herein, are based on the best information available and are being shared for information only. Small business set-asides may be projected herein, but the actual set-aside determinations will be made by the Contracting Officer at the time the procurement action is initiated. More specific information relating to any individual item or class of items will not be furnished until the proposed action is synopsized through the Government Point of Entry (GPE) or the solicitation is issued. The GPE is located at https://www.as.prescribed.by the Federal Acquisition Regulation (FAR). Acquisitions other than those provided in these estimates will be published in accordance with FAR 5.101.

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

Connect to Mission

CRDG Five Star Members

Amentum & Booz Allen Hamilton



Connect to Mission

CRDG Five Star Members

Amentum: Adam Buehler, Director of EW and Expeditionary Programs



Crane Regional Defense Group Connect to Mission, February 2025

Don Harder, Distinguished Engineer Director NSWC Crane, Pt. Hueneme and

Booz Allen.



Proud 5-Star Member

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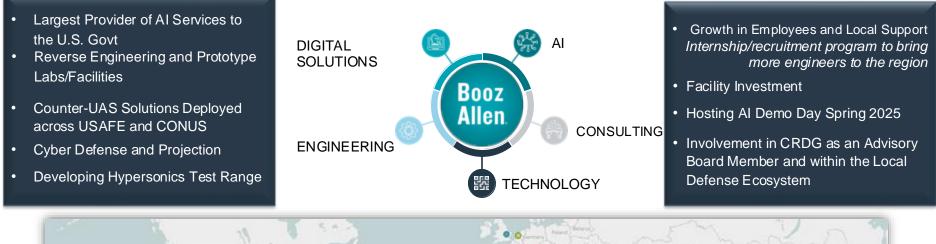


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110+ Years of Innovation

For 110 years, Booz Allen has been leading change and helping clients transform and leverage cutting-edge technologies to advance critical defense and national security missions.

World Class Expertise - Local Presence





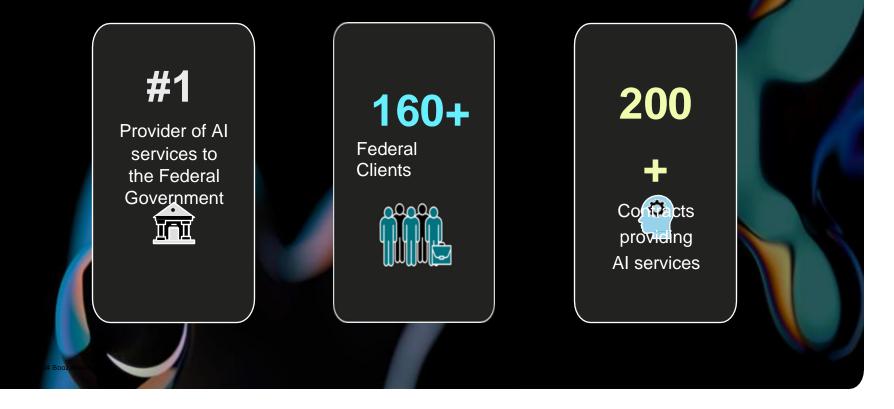
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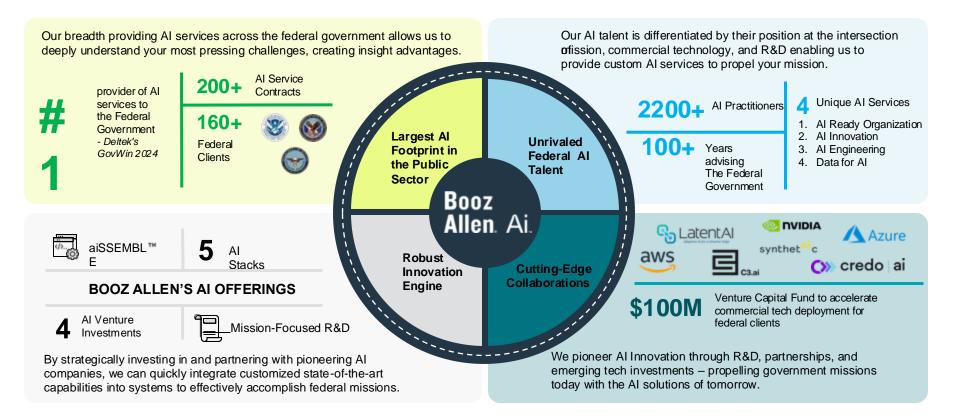
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Largest AI Footprint in the Public Sector

Our breadth of AI services across the Federal Government allows us to deeply understand your most pressing challenges, creating insight advantages.



The Booz Allen Al Advantage at a Glance



Booz | Allen | Hamilton®

Investment in Modern Counter-UAS Battlefield Technology

Small Unmanned Aerial Defense System (SUADS*) Deployed across USAFE and CONUS

*Fixed Site and Remote Deployable



Providing cutting-edge technologies to evolving defense missions and delivers innovative solutions to warfighters in the Modern, Digital Battlespace

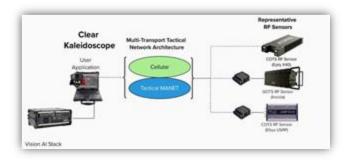
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Active Operational Warfare Prototyping and Experimentation (Silent Swarm)



NEXUS-SOLSI

- Low SWaP, prototype offering communication and PNT resiliency and protection from interference within the EM Spectrum.
- Introduces new EM Warfare techniques within swarm coordination to ensure platform survivability in denied environments
- Novel Responses to Counter-UAS Swarms



Remote Electronic Attack Counter High-Value Asset (REACH)

- Low-cost, reconfigurable, and networked Electronic Attack (EA) RF payloads that enable swarm tactics with UXS platforms in support of Electromagnetic Spectrum Operations (EMSO). RF payloads have been integrated into both UUV and USV platforms.
- REACH complements kinetic magazines through cooperative dispersed maritime EA.
- Alignment with experimentation and early development EMSO capabilities can be employed on attritable, multi-domain Unmanned Systems.



Clear Kaleidoscope (CK)

- Integrated AI/ML-driven analytics for enhanced EM Spectrum decision making.
- Focus on Signal Classification, Spectrum Occupancy Prediction, and Anomaly Detection
- Provides EW Planners with intuitive dashboards and analytical tools to more effectively understand, manage, decide, and prosecute the EM Spectrum within their Area of Operations.

Booz Allen Hamilton®

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CONTACT

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Thank You



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Connect to Mission

Division Manager Panel #2

Mr. Dave Kuhlman, Deputy Director, Spectrum Warfare Department (Facilitator)



NAVAL SURFACE WARFARE CENTER GRANE DIVISION

Expeditionary Electromagnetic Warfare Systems Division (WXQ) C2M Brief Presented by: LT Snider

CAPT Rex Boonyobhas, USN **Commanding Officer**

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



CRANE



Expeditionary Electromagnetic Warfare Division

We rapidly respond to emergent threats across the ever-changing electromagnetic battlefield with multi-domain, asymmetric, electromagnetic spectrum solutions to engage and defeat adversaries.

Challenge Areas:

- More workload opportunities than resources
- Attracting talent
- Facilities Constraints:
- Seating limitations
- Laboratory space
- Collaborative work spaces





JCREW/DRAKE Control Display Unit (CDU) 2.0



Acquisitions:

- Seaport Follow-On (FY26 Q2)
- FSR Contract Follow-On (FY26 Q2)
- Lake Glendora & Large Contract (FY26 Q2)
- DTIC Contract (Awarded FY25 Q3)

Talent Needs:

- Fleet Product Support
- Software Engineering
- Electrical Engineering
- Systems Engineering
- Test and Evaluation
- RF Expertise
- Electronics Technicians
- Program Management

Statement A: Approved for Public Release; Distribution is unlimited.

Modi II

Platform Protection and Countermeasures Technologies Division (WXR) C2M Brief Presented by: Nancy Maloy

CAPT Rex Boonyobhas, USN **Commanding Officer**

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



CRANE



Platform Protection & Countermeasures Technologies Division

WARFARE CENTERS CRANE

Services Provided:

- Threat Knowledge
- Design Development
- Modeling & Simulation
- Prototyping
- Performance Testing
- Dispense Technique Development •
- Advanced Laser CM Development

- Field Testing
- Dispenser Design & Fabrication
- Technical Data Package Validation
- Developmental and Acceptance
 Testing
- Recertification of Countermeasures
- Program of Record support



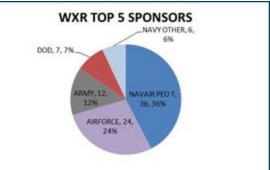
- Advanced Laser Countermeasures
- RF Countermeasures Design and Development
- Integration of IR and RF Countermeasures
- Common Carriage CM and Dispensers
- Advanced Countermeasures for Emerging Threats
- Establishment of Engagement-Level M&S for RF expendables

Facility Constraints:

- · Limited Classified Secret level Lab, Depot and Office Space
- Significant limitations on TS/SCI discussion space

Traditional "Buy" from Industry:

- Product Support
- Project/Task Management
- Project Analysts
- Depot support
- Test & Evaluation Support
- Ordnance Handling
- Infrastructure Support
- Technical Documentation
- Quality support



Primary Mission Protect Navy, Marine Corps and Air Force Platforms Against Multi-Spectral Threat Missiles Through Design, Development, Evaluation and Fielding of Countermeasures

Currently utilizing various contract strategies/vehicles:

• Seaport, DTIC, Large Contracts, OTA, SAP



Growth Areas for Industry Partners for our Future Capabilities:

- Deep Threat Understanding and Technique Development requires TS/SCI
- Advanced Multi-Spectral/Multi-Mode Countermeasures Design and Development
- Modeling and Simulation of Multi-Spectral Threats and Countermeasures

Evolving Countermeasures for Emerging Threats

NAVAL SURFACE WARFARE CENTER GRANE DIVISION

Electromagnetic Warfare Science and Technology Division (WXV) C2M Brief Presented by: Chris Crombar

CAPT Rex Boonyobhas, USN **Commanding Officer**

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



CRANE



Electromagnetic Warfare Science & Technology

EMSO Project Areas:

- Disruptive Effects
- Payload Prototyping/Lowvolume Production
- Live Test & Experimentation
- Cognitive EW AI/ML
 - Baseline algorithm development
 - Assess, DOE, T&E
- Data Environments & Cloud Computing
 - How to collect, move, process, store, analyze, distribute (Data







Talent Needs:

- Engineering/Science
 - RF/EW
 - Software Defined Radio
 - Digital Signal Processing
 - Field Programmable Gate Array
 - Python
 - Matlab
 - C, C++, C#

Curation) Enabling Technology For The Warfighter

Statement A: Approved for Public Release; Distribution is unlimited

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NAVAL SURFACE WARFARE CENTER GRANE DIVISION

Force Level Electromagnetic Warfare Division (WXY) C2M Brief Presented by: Matt Harvey

CAPT Rex Boonyobhas, USN **Commanding Officer**

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



CRANE

WARFARE CENTERS

VSEA Force Level Electromagnetic Warfare Division

- Activities
 - EMSO focused Model Based Engineering
 - M&S
 - LVC
 - Mission Level M&S
 - Physics Based M&S
 - Mission Engineering
 - Mission Characterization
 - System of Systems Gaps & Solutions
 - Mission Capability Based T&E
 - Model Based Systems Engineering
 - System of System Requirements, Structure, Interface, Behavior, and Parametric Modeling
 - Physical Model Based Engineering
 - Atmospheric & Geospatial Modeling

- Opportunities
 - DTIC
 - Expected award date: Q3 2025
 - Expected PoP: 5 years
 - Seaport
 - Expected award date: Q1 2026
 - Expected PoP: 5 years
 - Others
 - OTA S2MARTS
 - GSA DIU NSIN LOGIX \$150M WXY
 ceiling
 - DLA Troop Support
 - PCARD & SAP
 - Using existing vehicles with other Divisions now to support both internal and external contracts
- Needs
 - Access to non-typical Crane workforces
 - Advocacy
 - Support
 - Partnership

Statement A: Approved for Public Release; Distribution is unlimited.

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Connect to Mission

CRDG Five Star Member

HII



Warfare Systems Overview

Presenter: Esteban Jimenez Business Development Manager Cyber and Intelligence, Mission Technologies

Date: Feb 4, 2025

DELIVERING THE ADVANTAGE OF HII MISSION TECHNOLOGIES | A DIVISION

HII Mission & Values

MISSION:

To deliver the world's most powerful ships and all-domain solutions in service of the nation, creating the advantage for our customers to protect peace and freedom around the world



VALUES: Integrity Safety Respect Engagement Responsibility Performance



Ingalls Shipbuilding	85+ Year History	11,000+ Employees
Largest supplier of U.S. Navy	\$2.8B	7.1%
surface combatants	FY23 Revenue	FY23 Growth

Three Divisions One Mission





Mission Technologies

Leading provider of technology solutions to enable all-domain distributed operations

87+	7,000+
Year History	Employees
\$2.7B	13.1%
FY23 Revenue	FY23 Growth

Newport News Shipbuilding

Sole provider of U.S. Navy aircraft carriers and one of two nuclear submarine ship builders

138+	26,000+
Year History	Employees
\$6.1B	4.8%
FY23 Revenue	FY23 Growth



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ALL-DOMAIN OPERATIONS

GLOBAL

SECURITY

- C5ISR operations
- Platforms and logistics support
- Intelligence analysis

• LVC solutions

- Fleet sustainment
- Nuclear and environmental
- Australia business

WARFARE **SYSTEMS**

- Cyber and mission IT
- Electronic warfare
- C5ISR systems



• Unmanned Underwater Vehicles (UUVs)

- Unmanned Surface Vehicles (USVs)
- Autonomy software

Mission **Technologies** Groups

Capabilities Aligned to National Security Priorities





Warfare Systems

ELECTRONIC SYSTEMS

- Manufacturing (Prototyping, LRIP, FRP); Metals, Plastics, Composites, Wood, PCBs, ...
- Radar and Comms
- EW and Electronics
- RDT&E
- Munitions and Weapons

INTEGRATED SYSTEMS

- A&AS supporting AFLCMC, AFRL and AFTC
- Enterprise-scale Digital
 Infrastructure Modernization
- Electronic Warfare design and development

ENLIGHTEN IT

- Big Data
- DCO

Sec.

- Cloud Engineering
- Analytics
- Software Engineering

PLATFORM INTEGRATION

- Air and Maritime Integration
- Ground Systems Integration
- Enterprise Architecture
- Mission Assurance

CYBER & INTELLIGENCE

- Advanced Cyber
- OCO/DCO
- Analytics
- Specialty HW Engineering
- Specialty SW Services
- Microelectronics

C5ISR SYSTEMS

- Minotaur Software Products
- Minotaur Maritime Platforms
 Integration
- Spectrum Solutions



Electromagnetic Spectrum Solutions

40+ years of field, lab measurement, and engineering experience. 200+ staff dedicated to spectrum solutions, providing comprehensive RF and EMS engineering and testing on a wide variety of programs and effort

RF Design and Investment Decision Support

User requirement validation

E3 Evaluation

RF link and network performance analysis

Spectrum sharing laboratory

Automated Spectrum Management Tools

- Network/link planning
- Business Process
 Automation
- Dynamic spectrum
 resource management

Real-time spectrum monitoring

- World-class test and measurement
- State-of-the art analytics
- EMC/EMI Prediction and Mitigation

Expert Spectrum Policy Consultation

- Allocation, certification
 and licensing
- Transition Plans
- Domestic & international regulatory assistance

Modeling and Simulation

- Spectrum sharing viability
- Network functionality and RF path loss
- Antenna and propagation performance predictions
- Aggregate interference

Broadband Initiatives / 5G and Beyond

- Impact measurement and trade-off studies
- Spectrum sharing viability
- Realistic
 protection/exclusion zones



Industry Leader



DOD and IC recognized electronics reverse engineering SMEs



Designer and operator of the nation's largest LVC enterprise



Cyber Physical Vulnerability Analysis **Tool Development**



Industry leader in 5th **Generátion Electronic** Warfare Programs

Largest producer of unmanned underwater vehicles worldwide



Developer of the world's most advanced autonomy



• • •

FortisAI NLP Product Achieved "Awardable" status through CDAO* Tradewinds Solutions Marketplace



Over \$1B annual RDT&E defense revenue

#1 Contractor in OUSD(R&D) 2022 (in annual spend)



DARPA recognized leader in FPGA analysis



Developer of the nation's most advanced C5ISR edge capable Al-enabled mission system

110010 100110 001011 110010

Over 100 Million software lines of code under management

Largest aggregator of DoD cyber data

Over 20 Petabytes ingested and managed annually

*Chief Digital and Artificial Intelligence Office



Innovation Serving the Mission



Minotaur Mission Management

Multi-INT and edge-ready, the GOTS platform declutters and provides PED automation with AI



AI-Powered PAI All-Source Exploitation

FortisAI analyzes FORN media at petabyte scale in near real time for a wide range of missions



Cricket Family of Systems

Al-ready tactical EW edge payloads for multi-mission spectrum dominance operations



Big Data Analytics

BDP is a GOTS multi-layer secure cloud stack with bidirectional cross domain service to support cyber operations at massive scale



LVC Enterprise & LVC Integrated Ranges

NCTE is a multi-domain, globally distributed, secure, training system of systems serving thousands of joint training exercises annually



Autonomous Mission-Ready Platforms

Odyssey USV autonomy (Overlord) and the REMUS family of UUVs provide a suite of unmanned mission support and service options





Thank you.

Hll.com/missiontech



Connect to Mission

U.S. Small Business

Lindsay Maliqi, Outreach and Marketing Specialist





DoD Small Business Procurement Scorecard

Lindsay Maliqi Outreach and Marketing Specialist SBA Indiana District Office



U.S. Small Business Administration

4 Feb 2025

The SBA works to ignite change and spark action so small businesses can confidently



START • GROW • EXPAND • RECOVER



Nomination of The Honorable Kelly Loeffler to be Administrator of the SBA

Former Senator (R-GA) 2020-2021

Former CEO of Bakkt and former co-owner of the Atlanta Dream

Assist from North Carolina to California, with respect to disaster relief

Zero-tolerance policy for fraud

Take "a hard look" at the flagship 7(a) lending program





Indiana District (317) 226-7272 or <u>indiana@sba.gov</u>



Services we provide

Our office provides help with SBA services including funding programs, counseling, federal contracting certifications, and disaster recovery. We can also connect you to our partner organizations, lenders, and other community groups that help small businesses succeed.

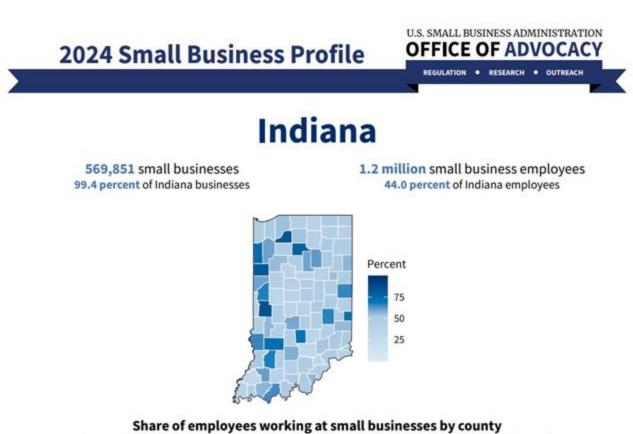
Areas we serve

The Indiana District Office services the entire state of Indiana.



What is a small business?





Sources of original data: Nonemployer Statistics (Census), Statistics of U.S. Businesses (Census)



Small Business Size Standards

sba.gov/size

236220	COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION	\$45.0M
238220	PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS	\$19.0M
333242	SEMICONDUCTOR MACHINERY MANUFACTURING	1,500 Employees
511210	SOFTWARE PUBLISHERS	\$47.0M
541330	ENGINEERING SERVICES	\$25.5M
541380	TESTING LABORATORIES AND SERVICES	\$19.0M
561210	FACILITIES SUPPORT SERVICES	\$47.0M
561611	INVESTIGATION AND PERSONAL BACKGROUND CHECK SERVICES	\$25.0M
611710	EDUCATIONAL SUPPORT SERVICES	\$24.0M
811111	GENERAL AUTOMOTIVE REPAIR	\$9.0



Small Business Size Standards

sba.gov/size

311920	COFFEE AND TEA MANUFACTURING	1,000 Employees
315990	APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING	600 Employees
322230	STATIONERY PRODUCT MANUFACTURING	750 Employees
332510	HARDWARE MANUFACTURING	750 Employees
332710	MACHINE SHOPS	500 Employees
339112	SURGICAL AND MEDICAL INSTRUMENT MANUFACTURING	1,000 Employees
423830	INDUSTRIAL MACHINERY AND EQUIPMENT MERCHANT WHOLESALERS	100 Employees
511130	BOOK PUBLISHERS	1000 Employees
561621	SECURITY SYSTEMS SERVICES (EXCEPT LOCKSMITHS)	\$25.0M
611420	COMPUTER TRAINING	\$16.0M



Contracting Assistance Programs



The federal government uses special programs to help small businesses win at least at 23% of all federal contracting dollars each year.

Small Disadvantage d Business

8(a) Business Development Program

Goal: 5%

Historically Underutilized Business Zones (HUBZone) Goal: 3%

Women-Owned Small Business (WOSB)

Goal: 5%

Service-Disabled Veteran-Owned Small Business (SDVOSB)

Goal: 5%

Learn more and determine your eligibility at

certifications.SBA.gov



DoD's Goals for FY2025 – as of 01/24/2025



Small Business - Prime: 23.17% Small Business - Subcontract: 30.00%

Small Disadvantage d Business

8(a) Business Development Program

Goal: 5%

Historically Underutilized **Business** Zones (HUBZone) **Goal: 3%**

Women-**Owned Small** Business (WOSB)

Goal: 5%

Service-Disabled Veteran-**Owned Small Business** (SDVOSB)

Goal: 5%

Learn more and determine your eligibility at

certifications.SBA.gov



Small Business Procurement Scorecard

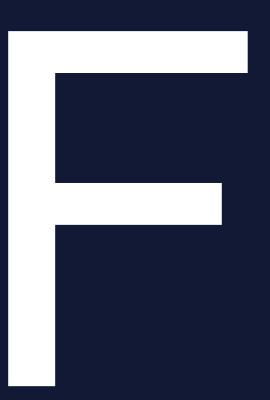
The annual scorecard assesses how well federal agencies reach small business contracting goals

Agencies are graded on the following scale: 120% or higher: **A+** 100% - 119%: **A** 90% - 99%: **B** 80% - 89%: **C** 70% - 79%: **D** 70% or lower: **F**

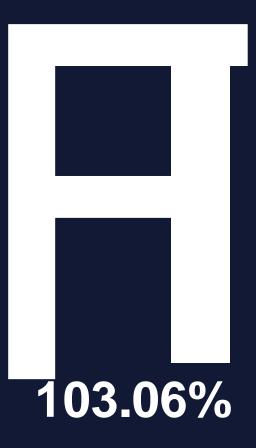


DoD Small Business Procurement Scorecard FY2023











Based on achievements in these four areas

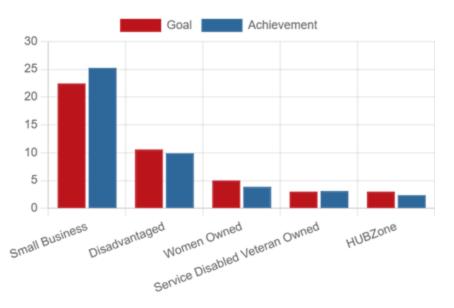
Prime contracting achievement	50%	51.43%
Subcontracting achievement	20%	21.83%
Comparison of the number of small business prime contractors in each of the five small business categories as compared to the prior fiscal year	10%	9.80%
Office of Small and Disadvantaged Business Utilization (OSDBU) peer review on agency compliance with section 15(k) of the Small Business Act	20%	20.00%
TOTAL	100%	103.06%



DoD Prime Contracting Achievement

Small Business	\$92.2 B	60.00%	67.48%
SDB	\$36.1 B	10.00%	9.36%
WOSB	\$14.1 B	10.00%	7.72%
SDVOSB	\$11.4 B	10.00%	10.41%
HUBZone	\$8.7 B	10.00%	7.90%

2023 Goals and Achievement

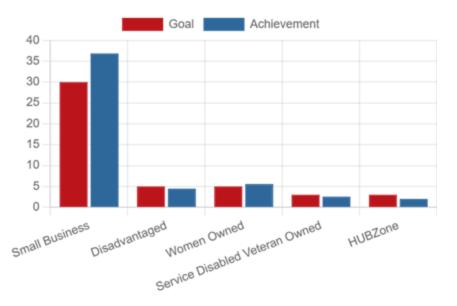




DoD Subcontracting Achievement

Small Business	\$59.8 B	60.00%	73.72%
SDB	\$7.3 B	10.00%	8.97%
WOSB	\$9.1 B	10.00%	11.20%
SDVOSB	\$4.1 B	10.00%	8.51%
HUBZone	\$3.3 B	10.00%	6.75%

2023 Goals and Achievement

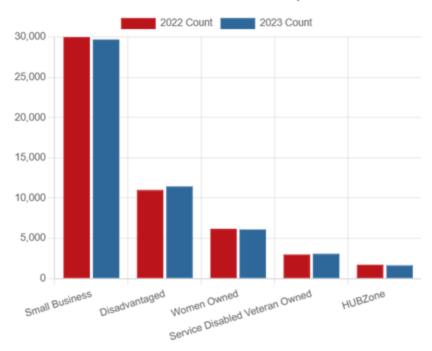




Small Business Prime Comparison

Small Business	29,991	29,682	-1.03%
SDB	11,003	11,441	3.98%
WOSB	6,165	6,109	-0.91%
SDVOSB	2,983	3,057	2.48%
HUBZone	1,718	1,647	-4.13%

Number of Small Business Comparison





NSWC Crane Small Business Website

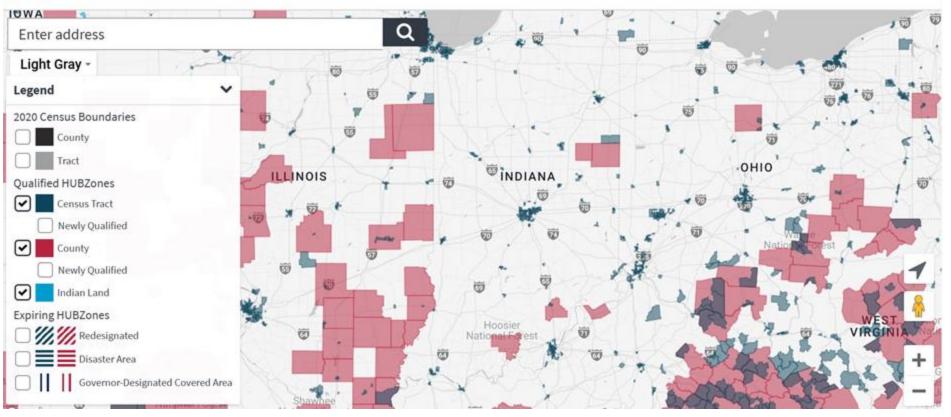


SB Eligible: 4,604 actions / \$1,434,015,841

Small Business Total: 2,363 actions SB \$484,131,954







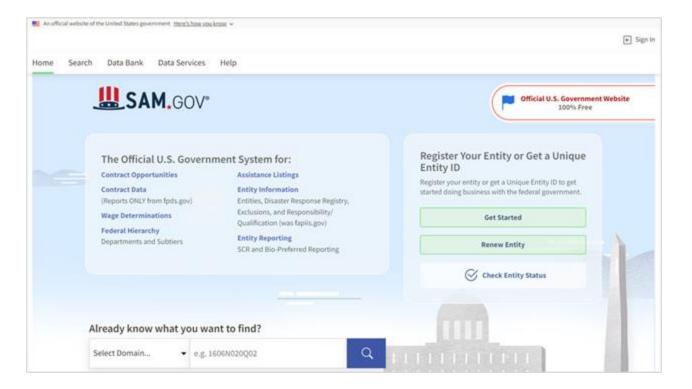


Indiana counties with HUBZones

- Blackford
- Crawford
- Jay
- Scott
- Marion
- Lake
- Allen
- St. Joseph
- Vanderburgh
- Vigo
- Tippecanoe
- Delaware
- Madison
- 99 LaPorte
 - Monroe



Register and find opportunities in SAM.gov





Dynamic Small Business Search

Database that government agencies use to find small business contractors

- Indiana: 22,922
- SDB: 2,308
- 8(a) or JV: 37
- WOSB: 137
- EDWOSB: 34
- VOSB or JV: 151
- SDVOSB or JV: 372
- HUBZone: 32

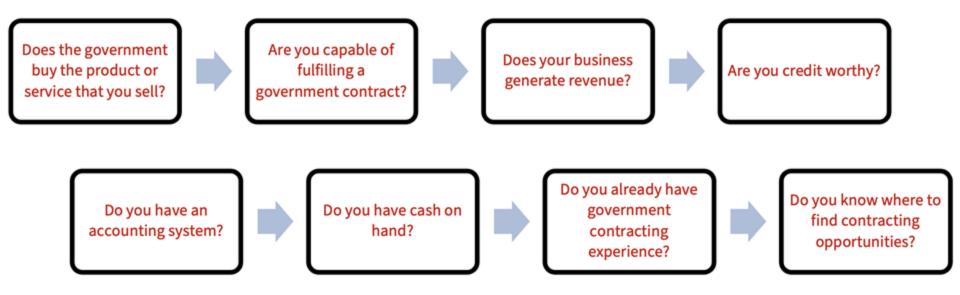


Update your profile in SBA Connect or SAM/gov

- Capabilities Narrative
- Capabilities Statement Link
- Website
 - Accepts Govt Credit Card
- State/Local Certs
- NAICS Codes
- Performance History, etc.



Government Contracting – Is it for you?





SBA Funding Programs

- SBA-backed Loans and Lines of Credit
 - Lender Match connects you to SBA lenders
- America's Seed Fund (SBIR/STTR)
 - Non-dilutive funding to develop your technology
- Small Business Investment Companies
 - SBICs invest in small businesses through debt, equity, or a combination of both
- Surety Bonds
 - Surety companies offer SBA-guaranteed bid, performance, and payment surety bonds to help small businesses win contracts



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More SBA GovCon Programs and Resources

- SBA Mentor-Protégé Program
 - Learn from an experienced government contractor
- Empower to Grow
 - Individualized coaching to help disadvantaged small business contractors
- T.H.R.I.V.E. Emerging Leaders
 - Advanced training for small business executives in business 3+ years with annual revenues of at least \$250,000 and at least one other employee
- MySBA Learning Journey 6: Government Contracting
- Contracting Guide Online



SBA Resource Partner Network



Approved and funded by the SBA



1,400+ partner offices nationwide

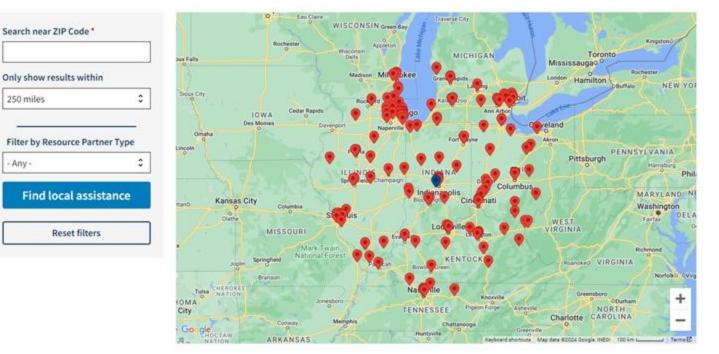


Find local resource partners near you at SBA.gov/localassistance





Get Local Assistance



SBA.gov/local-assistance



Counseling and Training in Your Area



score.org

- 2/22, Indy Developing Your Business Website
- Recorded webinars and templates
- Search mentors nationwide by industry and expertise



isbdc.org/locations

- 2/11, Online Basics of Indiana Small Business Certification
- Due 2/21 Indiana Technical Assistance Program (INTAP) Applications



indychamber.com/ciwbc

• 4/24, Indy – Women in Business Retreat



niic.net/wbc

• 2/11, Ft. Wayne – Financial Foundation Session



vetbizcentral.org

- 2/20, Muncie Boots to Business Reboot
- 3/10, Grissom ARB Boots to Business Reboot
- 3/13, South Bend Boots to Business Reboot



Indiana APEX Accelerator

inapex.org

- 2/12, Online Introduction to Federal Contracting
- 2/19, Ft. Wayne Exploring New Revenue Streams
- 2/25, Online Introduction to Federal Contracting
- 2/26, Indianapolis FOCI, Title III, SBA Mentor Protégé, IN-STEP





Cybersecurity for Small Business Pilot Program



Economic Development Corp.



Applied Research Institute (ARI) -Cybersecurity Trainings and One-On-One Assistance



Global Cyber Alliance - Cybersecurity Virtual Trainings



Purdue MEP - CMMC Level 1 Assessments



An official website of the United States government Here's how you know v



WELCOME TO THE Common Entry Point for Small Businesses



Indiana District (317) 226-7272 or <u>indiana@sba.gov</u>



Services we provide

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Areas we serve

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Connect to Mission

SAVE THE DATE

Next C2M of 2025: May 6, 2025 Featuring: NSWC Global Deterrence & Defense Department

