



**CRANE REGIONAL  
DEFENSE GROUP**



# CONNECT TO MISSION: C2M

Featuring NSWC Crane:  
Spectrum Warfare Systems Department



# Crane Regional Defense Group

Featuring NSWC Crane: Spectrum Warfare Systems Department

Connect to Mission | February 7, 2023



# Crane Regional Defense Group

**Citizen-led committee established through partnerships between chambers of commerce, county councils, financial institutions and local business leaders.**

- **40+ members**
- **Frequent events and networking opportunities**
- **Serve on task forces and prioritize initiatives**
- **Constant collaboration with the installation and its leadership**



# CRANE REGIONAL DEFENSE GROUP



### Congressional Reception



### Connect to Crane



### 2022 State of the Installation



### Key Leader Series



### Visit to Pentagon

# AGENDA

- **Opening Comments: *Dr. Angela Lewis, Technical Director***
- **Spectrum Warfare Systems : *Mr. Zahid Din (SSTM), Department Director***
- **Division Manager Panel : *Mr. Roger Becker, Deputy Department Director***
- **Networking Break**
- **Contracting Approach Panel : *Ms. Nancy Maloy, Technical Acquisition Deputy***
- **Defense Technical Information Center (DTIC) : *Brent Ishizaki, Program Manager***
- **Technical Panel : *Ms. Stacey Mervyn (SSTM), Navy's Distinguished Engineer for Advanced Electronic Warfare***
- **Closing Comments**
- **Networking: *Join PRF for their First Tuesday Event!***



# Dr. Angela Lewis

*Technical Director, NSWC Crane*



# Mr. Zahid Din (SSTM)

*Department Director, Spectrum Warfare Systems*



# Connect to Mission

## Spectrum Warfare Systems Department



***CAPT Duncan McKay, USN***  
***Commanding Officer***

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



***Mr. Zahid Din, SSTM***  
***Department Director***

***Mr. Roger Becker***  
***Deputy Department Director***



# Multi-Domain/Multi-Spectral EW Workload

**Focus:**

On leveraging our technical capabilities as well as our multi-domain, multi-service, multi-spectral, full lifecycle knowledge and experience to provide innovative, leading-edge technical solutions for the rapidly changing threat environment.

**Product Areas:**

- Electromagnetic Warfare Science & Technology and Advanced EW Concepts
- Naval Integrated Fire Control Model Based Systems Engineering
- Infra-Red (IR) Countermeasure S&T, R&D, Design Flares/Chaff/Lasers
- Surface Electronic Warfare Systems and Off board Countermeasures
- Counter Radio Controlled Improvised Explosive Device Warfare (CREW) Systems
- Airborne Electronic Attack Systems
- Phased Array and Solid State Technologies
- Counter Unmanned Aerial Systems

**Roles:**

- S&T
- Research and Development
- Design
- Modeling and Simulation
- System Engineering
- Test and Evaluation
- Threat Load Development
- In-Service Engineering
- Integrated Logistics
- Configuration Mgmt
- Sustainment
- Installations
- Fleet Support
- Software

## Airborne Electronic Attack

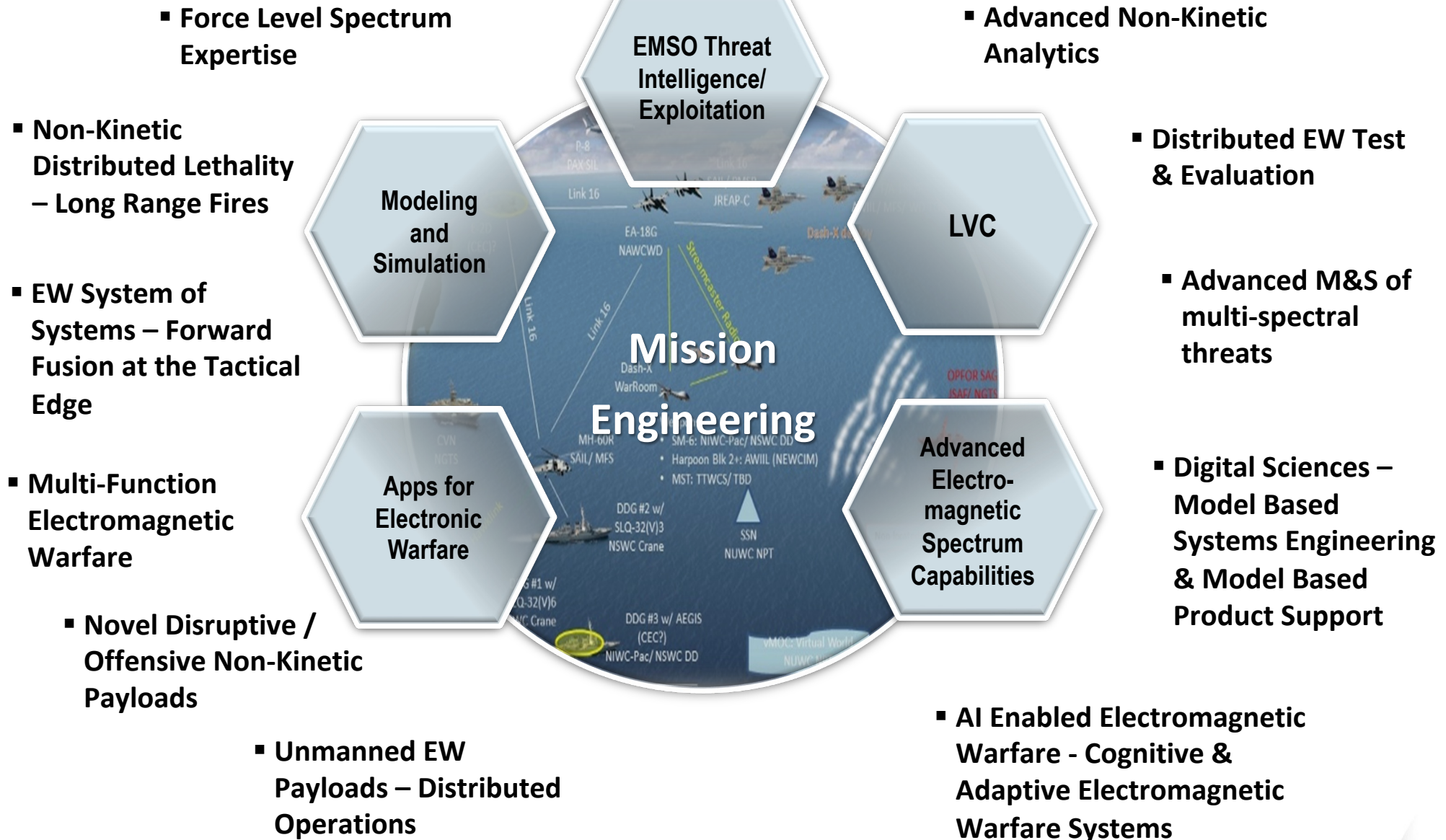


## Shipboard Radar Technologies

## Anti-ship Missile Defense

Distribution Statement A: Approved for public release. Distribution is unlimited.

# EW Mission Area Strategic Objectives



# Division Manager Panel

*Facilitated by: Roger Becker, Deputy Department Head*



**CAPT Duncan McKay, USN**  
Commanding Officer

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



**Mr. Zahid Din, SSTM**  
Department Director

**Mr. Roger Becker**  
Deputy Department Director

# Radar Technologies Division

*Presented by: John Schofield, Division Chief Engineer*



**CAPT Duncan McKay, USN**  
**Commanding Officer**

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



**Mr. Zahid Din, SSTM**  
**Department Director**

**Mr. Roger Becker**  
**Deputy Department Director**

## Major Customers Supported

- NAVSEA
- NAVAIR
- NAVSUP
- Air Force
- Marine Corps
- Office of Secretary of Defense

## Hardware Product Areas

- Radar/COMM/EW Systems
- Antennas/Active Electronic Steered Arrays (AESA)
- Microwave Components
- Power Supply Technologies
- Digital Technologies
- RF Solid State Technologies
- Software Defined Radio (SDR)

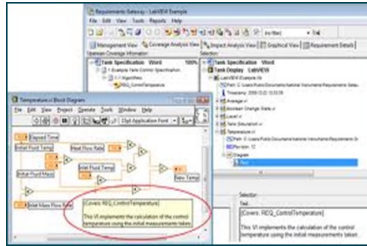
## Warfare Center Technical Capabilities

- CR04 – Electronic Warfare Systems
- CR15 – Strategic Systems Hardware
- CR18 – Advanced Electronics
- CR19 – Sensors & Surveillance Systems

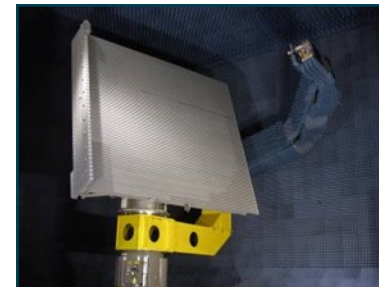
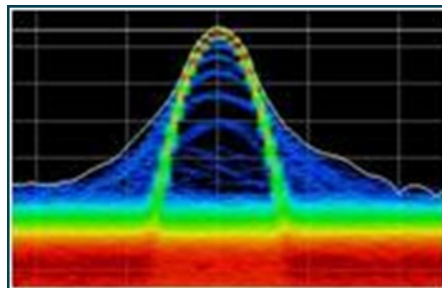
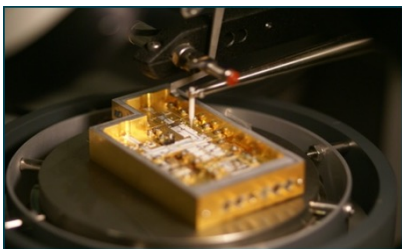
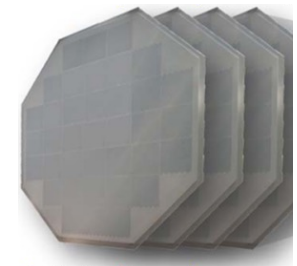
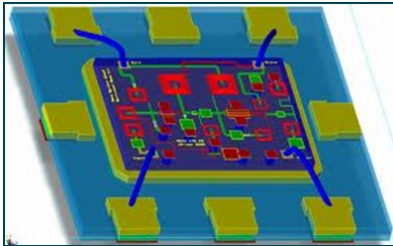
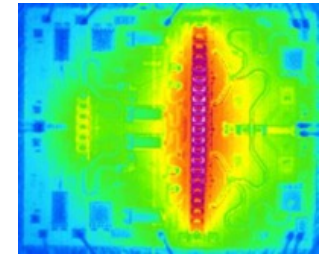


## Technical Workforce

- 260 Government Employees
- 48% Scientists & Engineers



- Program Management
- Acquisition & In-Service Engineering
- Product Support Management
- Depot Support
- Fleet Support
- Modeling and Simulation
- Design & Development
- RF Test & Evaluation
- Technology Insertion/Refresh
- Industrial Base Analysis & Sustainment



**Full Life-Cycle Support of RF Systems and Components**

Distribution Statement A: Approved for public release. Distribution is unlimited.

## Challenge Areas:

- More workload opportunities than resources
- Attracting talent because of pay disparity with industry, geographic location, and inability to offer fully remote work

## Facilities Constraints:

- Very limited seating
- Laboratory Space
- Industrial Space
- Anechoic Chamber Space

## Talent Needs:

- **Business Professionals**
  - Experience with DoD Programs and Processes
- **Engineering- RF Sensors**
  - **Systems Engineering**
    - Radar/EW/Communications Systems
    - DoD SETR
    - Test and Evaluation
    - MBSE
  - **Electrical Engineering**
    - RF/Digital/Power/Antenna
  - **Mechanical Engineering**
    - Mechanical and Thermal Modeling
    - Design
    - Environmental Testing
    - Radar Mechanical Stabilization
    - Materials and Corrosion prevention
- **Electronics Technicians**
  - AESA and Rotating Radar System Depot
  - Power Supply
  - Vacuum Electronic Devices
  - Solid-State Devices
  - RF Testing

# Expeditionary Electronic Warfare Systems Division

*Presented by: Dave Kuhlman, Division Manager*



**CAPT Duncan McKay, USN**  
Commanding Officer

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



**Mr. Zahid Din, SSTM**  
Department Director

**Mr. Roger Becker**  
Deputy Department Director



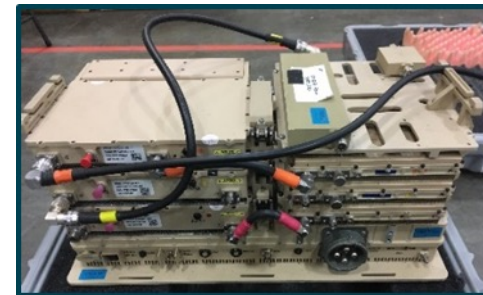
Major Customers Supported

- NAVSEA
- Marine Corps
- USSOCOM
- Air Force
- NISE 219
- DARPA
- ONR
- OSD



Hardware Product Areas

- Counter Radio-Controlled Devices
- Cyber/Electromagnetic Spectrum
- Applications for Electromagnetic Spectrum
- Advanced Electromagnetics Spectrum Concepts
- Advanced Technique Developments



Warfare Center Technical Capabilities

- CR04 – Electronic Warfare Systems
- CR15 – Strategic Systems Hardware
- CR23 – Force Level Electromagnetic Warfare Mission Analysis

Technical Workforce

- 184 Government Employees
- 66% Scientists & Engineers



JCREW / DRAKE

- Program Management
- Acquisition & In-Service Engineering
- Product Support Management
- Depot Support
- Direct Fleet Support
- Sustainment and Capability Development
- Research & Development
- Test & Evaluation
- Systems Engineering
- Life Cycle Logistics
- Tech Insertion/Tech Refresh
- Science & Technology
- Cyber EW



## Challenge Areas:

- More workload opportunities than resources
- Attracting talent because of pay disparity with industry, geographic location, and inability to offer fully remote work
- Unpredictability of funding/continuing resolution

## Facilities Constraints:

- Very limited seating
- Laboratory Space
- Collaborative Work Spaces

## Talent Needs:

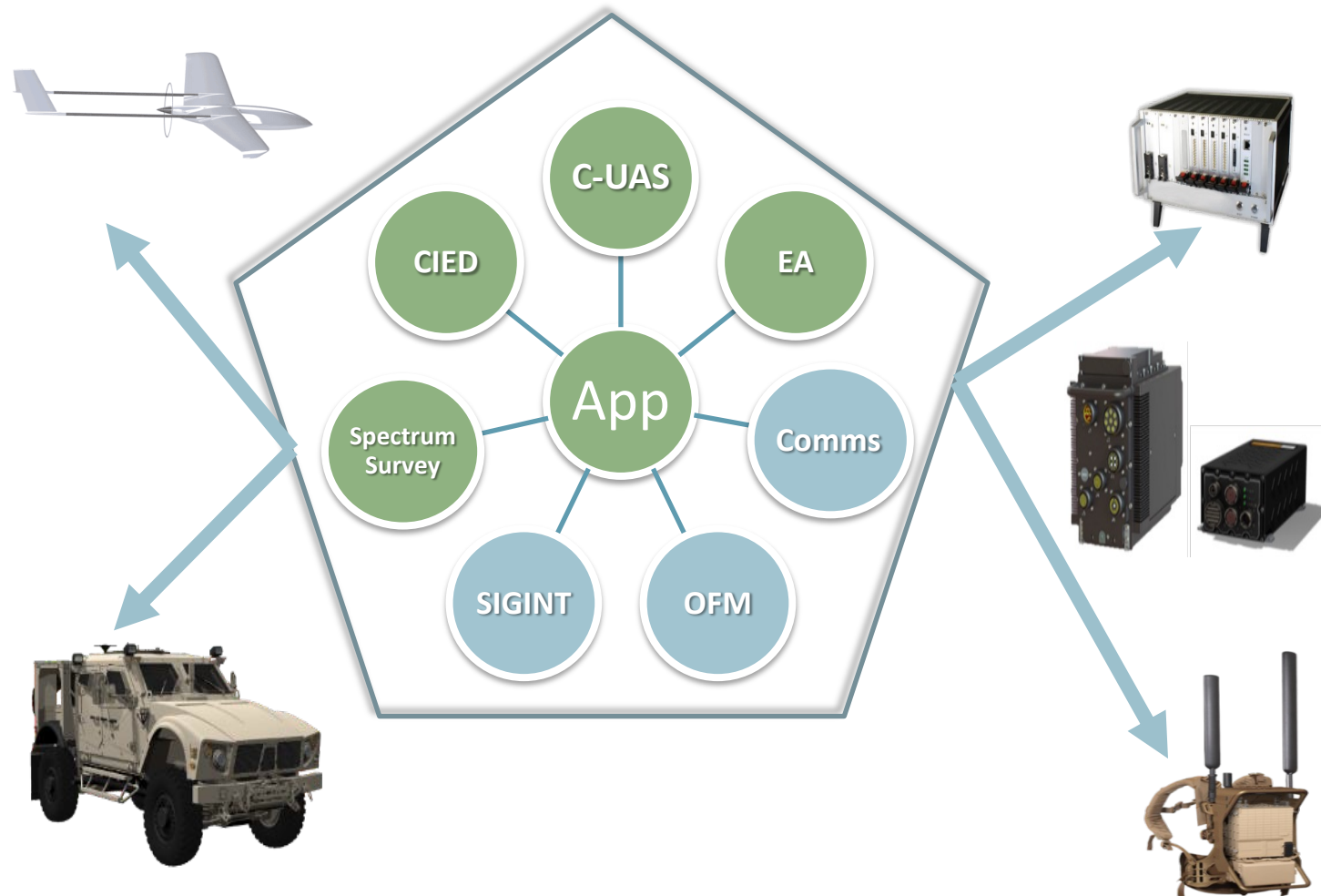
- **Cyber EW**
  - Apps for EW
- **Software Engineering**
  - Software Development
  - Computer Engineers
- **Engineering**
  - Systems Engineering
    - Test and Evaluation
  - Electrical Engineering
    - RF Expertise
  - Mechanical Engineering
- **Electronics Technicians**
  - RF Test & Evaluation

# Apps for Electronic Warfare

**Applications for EW:**  
Multiple EW missions in single hardware solution

## SDR App Development Lab

- Software Defined Radio (SDR) Electronic Warfare (EW) focused multi-function application development environment
- The SDR App Development lab will provide a foundational ecosystem for advanced spectrum operations
- Enables dynamic mission applications, accelerated capability development, cyber applications, and low SWaP resilient hardware.



# Maritime Electromagnetic Warfare Systems Division

*Presented by: Charles (Chuck) Fravell, Division Manager*



**CAPT Duncan McKay, USN**  
**Commanding Officer**

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



**Mr. Zahid Din, SSTM**  
**Department Director**

**Mr. Roger Becker**  
**Deputy Department Director**

## Current Warfighter

### Maintaining Readiness

- In-Service Engineering
- Sustainment Engineering
- Software Support Engineering
- Fleet Modernization / Installations
- Fleet Readiness
- Product Support



## Maritime Electromagnetic Warfare Systems Division

- Surface Electronic Warfare Improvement Program (SEWIP)
  - AN/SLQ-32 & Decoy Launch Systems

## Next Warfighter

### Building the Future Force

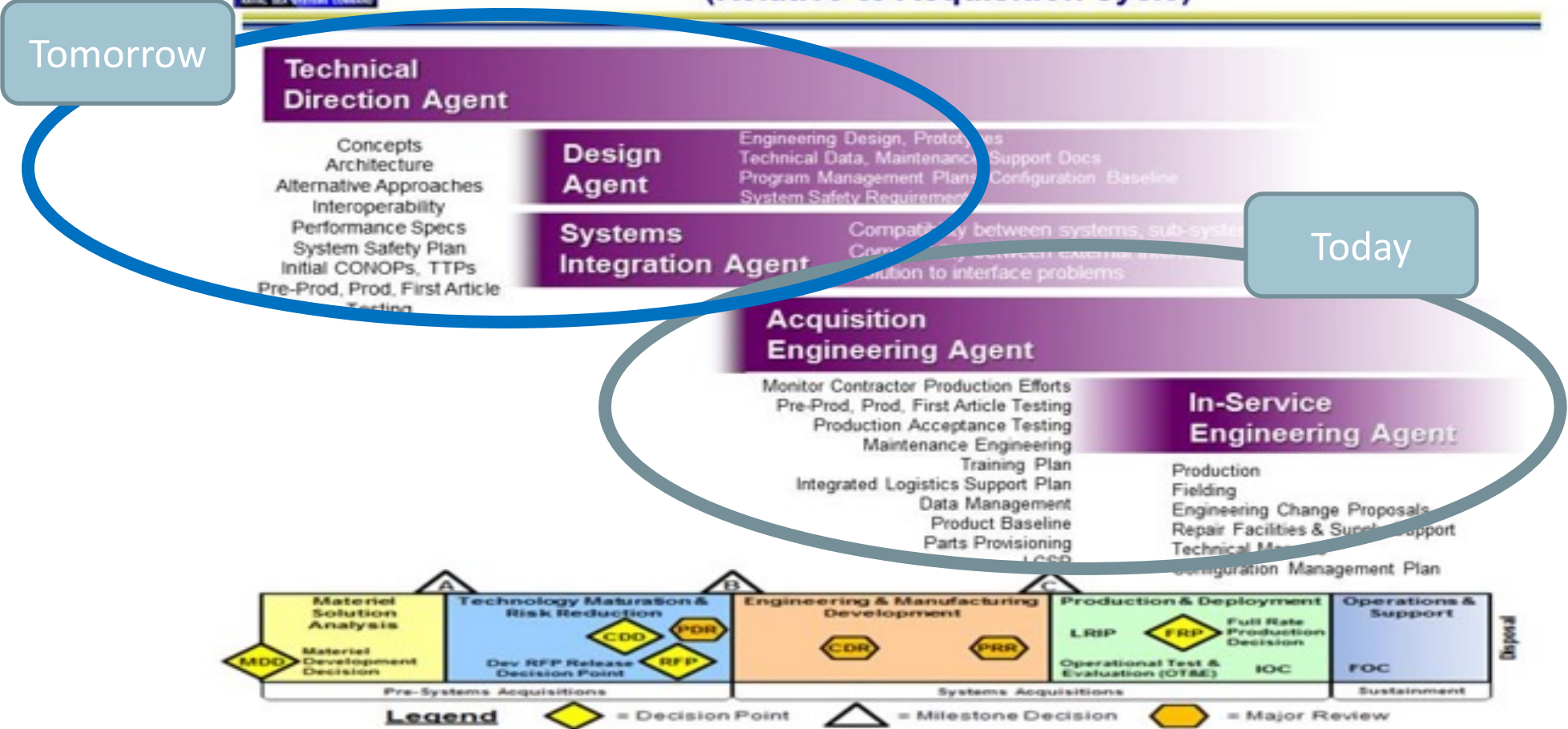
- Systems Engineering
- Acquisition Engineering
- Acquisition Logistics
- Accelerated Transitions
- Rapid Design & Prototyping
- LVC

## Warfighter After Next

### Innovation

- Research, Development, Test and Evaluation
- Science and Technology Initiatives
- Partnering and Engagement
- Technology Transition to Fleet

## Engineering Agent Activity (Relative to Acquisition Cycle)



## *“Legacy” Systems*

- **Hardware Based**
- **Deep Pool of Experienced Support Workforce**
- **Established Enterprise Sustainment Infrastructure**
  - It is embedded in the culture
- **Risk**
  - **Obsolescence Management**
  - **Workforce attrition**

## *“Next Generation” Systems*

- **Software Centric**
  - Data & more data
- **Support personnel must be capable in SW & HW**
  - We are growing subject matter experts (SME)
- **Emerging Technologies**
  - RF over Fiber
  - Autonomous Operations
  - AI/ML
- **Significant pressure to accelerate fielding and improvement planning.**



- **Technical: Large Program of Record Engineering Agency Support**
  - **Systems Engineering**
    - MEW and Combat Systems Interface
    - Test and Evaluation
    - Digital Engineering
  - **Electrical Engineering**
    - RF/Digital/Power
  - **Mechanical Engineering**
    - Mechanical and Thermal Modeling
    - Design
    - Environmental Testing
    - Materials and Corrosion prevention
  - **Software / Computer Engineering**
    - Networking / LVC / SSA
  - **Installations – Systems and process expertise**
  - **Fleet Readiness – Global Support**
  - **Sustainment Operations**

- **Product Support is Huge: Critical skillsets and workload related to product support.**
  - **MBSE for better, faster systems engineering for full lifecycle management;**
  - **Data science and analytics to support the lifecycle / Maintenance tasking;**
  - **FMECA Development – HW and SW**
  - **Configuration Management**
  - **Training development and maintenance**
  - **MBSE/MBPS integration and transition to the digital environment – processes, best practices, strategies**
- **Other**
  - **Facilities**
  - **Obsolescence Management**

# Airborne Electronic Attack Systems Division

*Presented by: Mr. Chuck Young, Division Manager (Acting)*



**CAPT Duncan McKay, USN**  
Commanding Officer

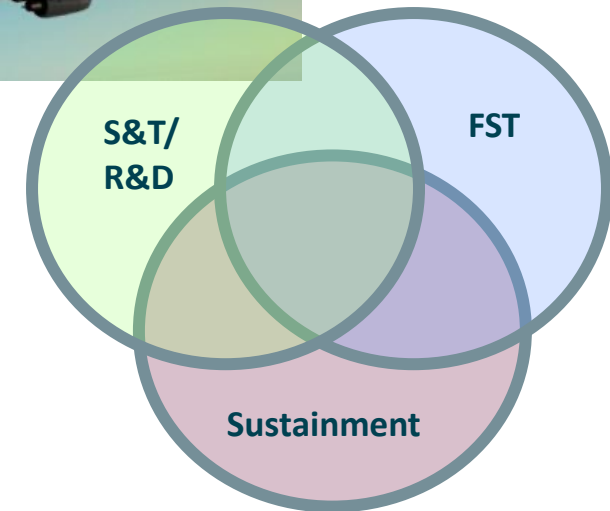
**Dr. Angela Lewis, SES**  
Technical Director



**Mr. Zahid Din, SSTM**  
Department Director

**Mr. Roger Becker**  
Deputy Department Director

Distribution Statement Pending



**Technical Workforce**

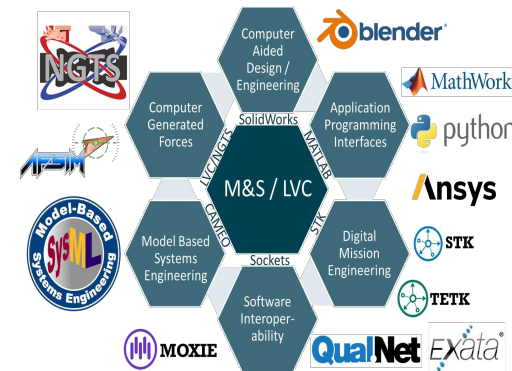
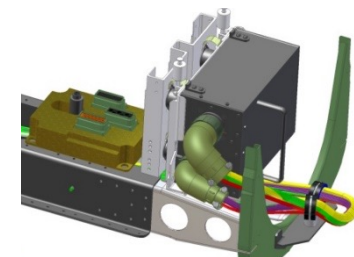
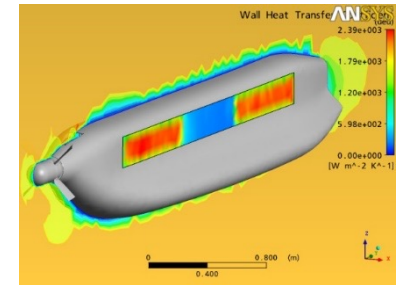
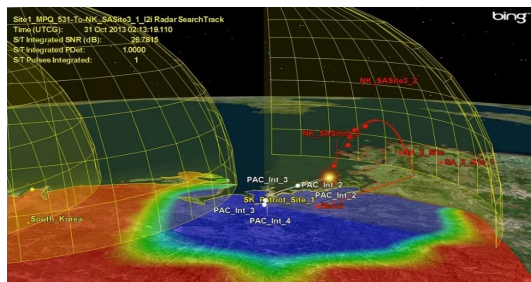
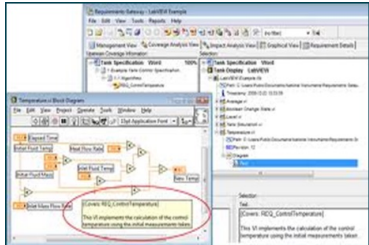
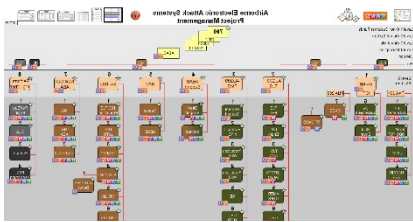
- 300 Government Employees
- 84% Scientists & Engineers

- Major Customers Supported**
- NAVAIR (Multiple Program Offices)
  - NAVSUP / DLA
  - Army
  - National Labs (NSA, DARPA, ONR, etc.)
  - Office of Secretary of Defense

- Product Areas**
- Electronic Attack Systems
  - Antennas/Active Electronic Steered Arrays (AESA)
  - Receivers / Exciters Communication Systems
  - EW Threats and Techniques / Mission Engineering
  - Radomes / Composites
  - Test and Evaluation Systems
  - Software Defined Radio (SDR)

- Warfare Center Technical Capabilities**
- CR04 – Electronic Warfare Systems
  - CR23 – Force Level EW Mission Analysis

- Modelling and Simulation / MBSE
- Mission Engineering
- Systems Engineering
- Threat Analysis & Technique Dev
- Design / Development / Prototyping
- Program Management
- Logistics / Product Support Management
- Acquisition / Fleet Support Teams
- RF / Digital Test & Evaluation
- Technology Insertion/Refresh
- Radomes / Composites
- System Sustainment



## Full Life-Cycle Support of AEA Systems

Distribution Statement A: Approved for public release. Distribution is unlimited.

## Challenge Areas:

- Opportunity Rich Environment
- Attracting/retaining talent

## Facilities Constraints:

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

### Talent Needs:

- **Business Professionals**
  - Program Management
  - Experience with DoD Acq Programs and Processes
  - Logistics Analysts (Product Support processes)
- **Engineering- RF / EE / Comp E / ME / Specialty (PhDs)**
  - Data Analytics / Data Analysis
  - Modelling and Sim
  - Mission Eng / Former EW Operators
  - Software Eng ( MATLAB, Python, C++, #, etc)
  - EW / Communications Systems / Protocols
  - DoD SETR / System Engineering
  - Test and Evaluation / Automated Test Programs
  - RF and Electrical Engineering
- **Materials / Composites (Materials Eng)**
- **Electronics / Mechanical Technicians**
  - RF Testing
  - Avionics Electronic System and Mechanical Repair

# IR/RF Systems Technologies Division

*Presented by: Josh Geary, Deputy Division Manager*



**CAPT Duncan McKay, USN**  
**Commanding Officer**

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



**Mr. Zahid Din, SSTM**  
**Department Director**

**Mr. Roger Becker**  
**Deputy Department Director**

## Technical Workforce

- 103 Government Employees
- 59% Scientists and Engineers

## Main Areas of Expertise:

- Infrared Countermeasure Design & Development
- Modeling & Simulation
- Acceptance Testing
- Field Test Support
- Countermeasures Dispensing Systems

## New Technical Areas Core to Future:

- Laser based Countermeasures
- Optical Warfare
- RF-based Countermeasures
- RF Modeling and Simulation



## Challenge Areas:

- More workload opportunities than resources
- Additional technical and programmatic support needed in Jacksonville, Pax River, and Huntsville
- Field test support needed at Camp Atterbury, White Sands, Yuma, China Lake, and Eglin



## Current and Continuing Needs:

- Ordnance Technicians to support pyrotechnic prototyping and testing
- Machinists and Model Makers
- Configuration Management and Project Support

## Additional Future Needs:

- RF Engineering
  - Design/Development
  - Modeling and Simulation
  - Testing
- Dispenser program support
  - Design Engineers
  - Logisticians
  - Program Professionals
- Optical Warfare S&Es

# EMW S&T Division

*Presented by: Christopher Crombar, Division Manager*



**CAPT Duncan McKay, USN**  
Commanding Officer

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



**Mr. Zahid Din, SSTM**  
Department Director

**Mr. Roger Becker**  
Deputy Department Director

Major Customers Supported

- DARPA
- ONR
- PEO IWS-C
- Office of Secretary of Defense
- STRATCOM

Warfare Center Technical Capabilities

- CR04 – Electronic Warfare Systems
- CR10 – Infrared Countermeasures and Pyrotechnic RDT&E and Life Cycle Support
- CR23 – Force Level Electromagnetic Warfare

Project Cells

- Advanced Concepts Group
- Loki
- Force Level EW
- Liaisons

EW Advanced Concepts Group

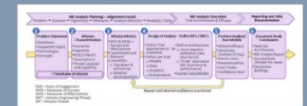


- Development
- Test and Evaluation
- Transition Support
- S&T Demonstrations



Force Level Electromagnetic Warfare

National Leaders in Force Level EW for Department of Defense: Influence EW Operational employment (Doctrine, TTPs, CONOPs, CONEMPs) and create multi-domain and full spectrum electromagnetic warfare solutions to provide the Electromagnetic Spectrum advantage.



Loki



**Proactive & Offensive**  
Weaponizing the EMS (Non-Kinetic Fires)  
Grey Zone Operations  
**Sowing Seeds of Doubt**  
Mission Impacts Far Left of Launch  
**Enabling Current & Emerging EW**  
Expand EW Application



Technical Workforce

- 53 Government Employees
- 92% Scientists & Engineers

## Project Areas:

- AI/ML Programming
- Model Based Systems Engineering (MBSE) at System of Systems (SoS) level & Mission Engineering
- SDR (Loki)
- Tactics Techniques Procedures (TTP)

## Facilities Constraints:

- Very limited seating
- Laboratory Space
- Higher than Secret Space

## Talent Needs:

- **Engineering/Computer Science**
  - Python
  - Java
  - Matlab
  - C, C++, C#
  - Cameo/SYSML
  - GNU Radio
- **TTP**
  - Tactical CONOPS
  - Threats
  - Background in Fleet Exercises
  - Tactical TTPs

# CONNECT TO MISSION

## NETWORKING BREAK



# Contracting Panel

*Facilitated by: Nancy Maloy, Technical Acquisition Deputy*



**CAPT Duncan McKay, USN**  
**Commanding Officer**

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



**Mr. Zahid Din, SSTM**  
**Department Director**

**Mr. Roger Becker**  
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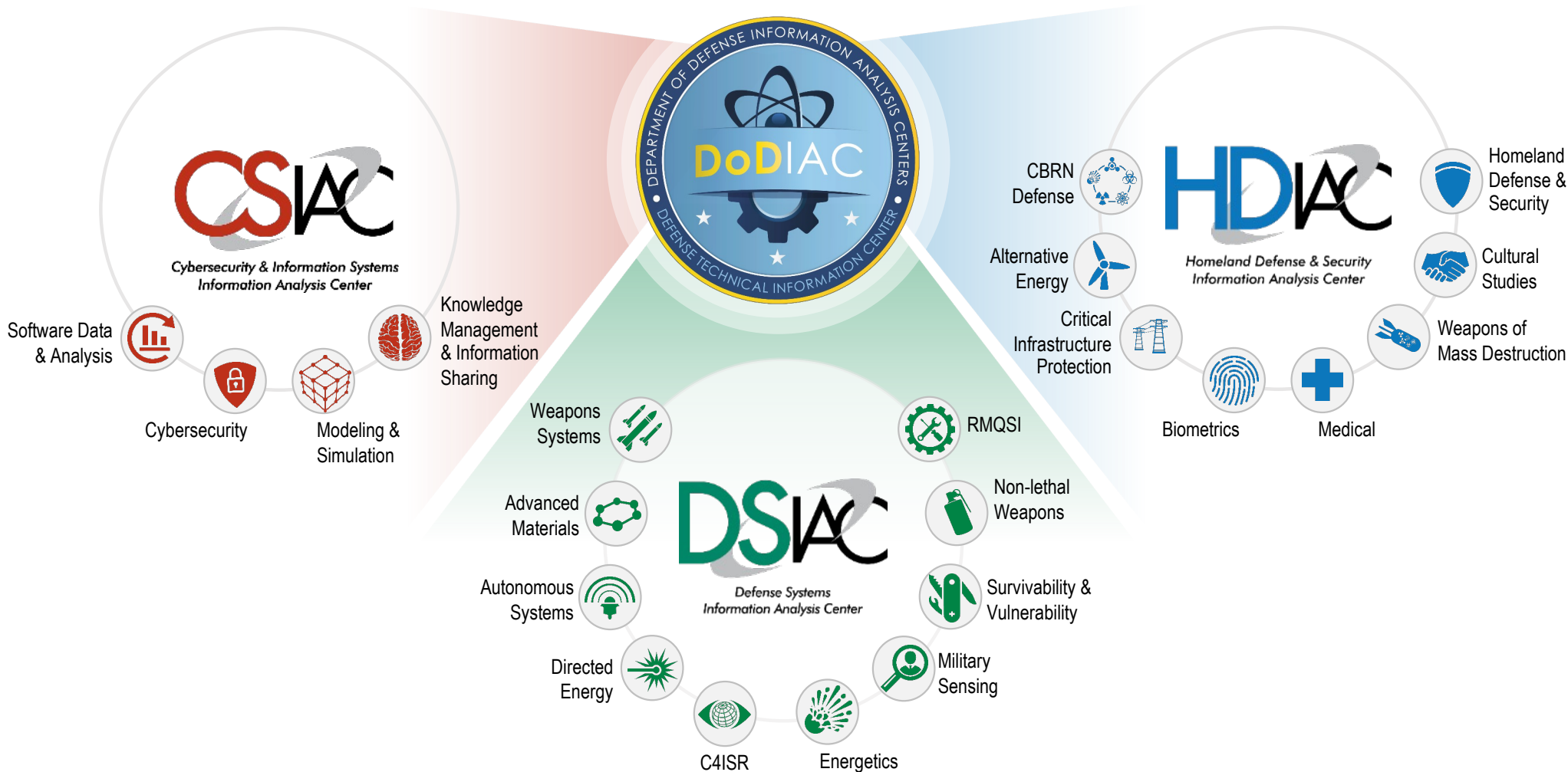
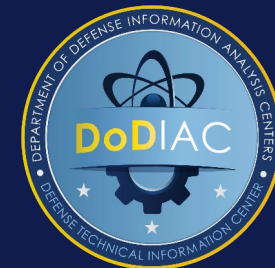
# Defense Technical Information Center (DTIC)

*Brent Ishizaki, Program Manager, DTIC*





# Advancing The State-Of-The-Art Across 3 Domains



**Department of Defense Information Analysis Center (DoDIAC)**

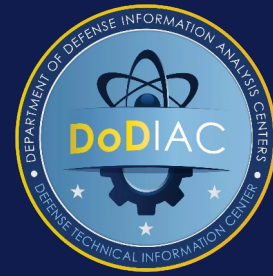
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<https://dodiac.dtic.mil>





# Buying R&D Services Made Easy



**Dedicated teams helping you easily navigate through each step of our streamlined acquisition process**



An **Indefinite Delivery Indefinite Quantity (IDIQ) Multiple Award Contract (MAC)** for RDT&E services, other R&D-related analytical services, and development of doctrine, tactics or plans. Awarded 30 September 2018 with a nine-year ordering period and \$28B ceiling.

- No maximum ceiling, with PoP up to 5 years
- Rapid award (4.5 months from solicitation)
- Dedicated requirements support and contracting team



**774th ESS Contracting**

**Fast, Flexible, and Focused**

To learn more visit us at: <https://dodiac.dtic.mil/services>

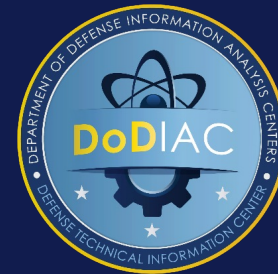
**Department of Defense Information Analysis Center (DoDIAC)**

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<https://dodiac.dtic.mil>



# Opportunities



| Requiring Activity    | Task Order  | Projected Award | Estimated Value |
|-----------------------|---|-----------------|-----------------|
| NSWC Crane<br>PMA-272 | Research, Development, Test, and Evaluation (RDT&E) of Infrared/Radio Frequency (IR/RF) Systems Technologies for Naval Air Systems Command (NAVAIR) Advanced Tactical Aircraft Protection Systems Program Office (PMA-272) and Naval Surface Warfare Center, Crane Division (NSWC Crane) Spectrum Warfare Systems Department (WX) | 1st Qtr<br>FY24 | \$40-\$50M      |

| Requiring Activity | Task Order  | Date of Award | Awarded Value |
|--------------------|---|---------------|---------------|
| NSWC Crane         | Research, Development, Test, and Evaluation (RDT&E) of Radar and Electronic Warfare systems, subsystems, and interface equipment for Radar Technologies Division (WXP), Naval Surface Warfare Center (NSWC), Crane Division | 21-Mar-21     | \$109M        |

**Fast, Flexible, and Focused**

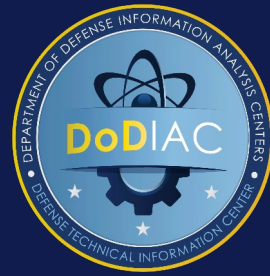
To learn more visit us at: <https://dodiac.dtic.mil/services>

**Department of Defense Information Analysis Center (DoDIAC)**

Eliminate REDUNDANCY | Foster COLLABORATION | Stimulate INNOVATION



# Contact Us



**Visit us at <https://DoDIAC.dtic.mil>**

**Mr. Brent Ishizaki**

Director, DoD Information Analysis Centers  
brent.ishizaki.civ@mail.mil  
Direct: 571-448-9721

**Mr. Jared Dostal**

Director, 774<sup>th</sup> ESS  
jared.dostal@us.af.mil

**Department of Defense Information Analysis Center (DoDIAC)**

*Eliminate REDUNDANCY | Foster COLLABORATION | Stimulate INNOVATION*

# Technical Panel

*Facilitated by: Stacey Mervyn, SSTM*



**CAPT Duncan McKay, USN**  
Commanding Officer

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



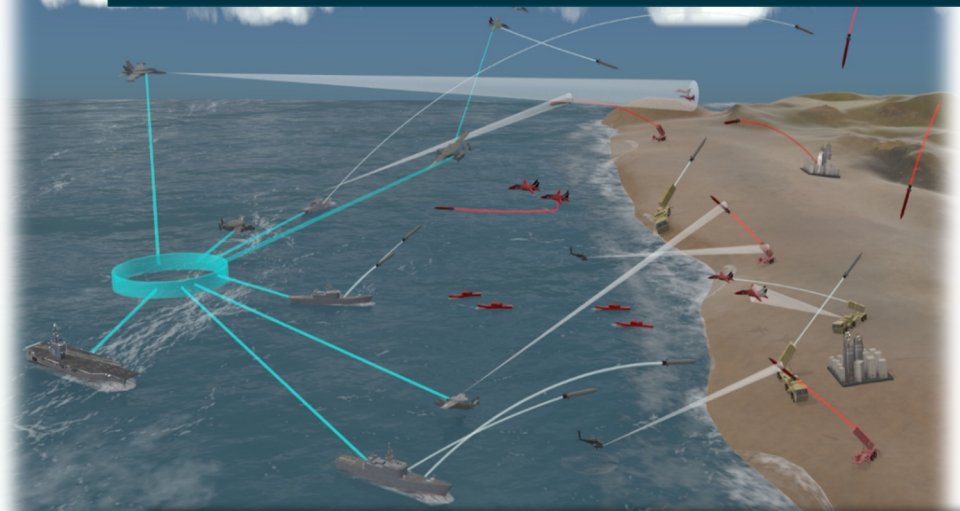
**Mr. Zahid Din, SSTM**  
Department Director

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**National Leaders in Force Level EW for Department of Defense: Influence EW Operational employment (Doctrine, TTPs, CONOPs, CONEMPs) and create multi-domain and full spectrum electromagnetic warfare solutions to provide the Electromagnetic Spectrum advantage.**

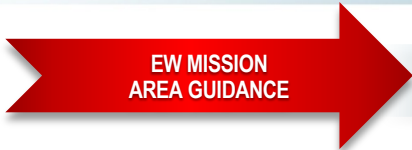
- *National Defense Strategy, DoD EMS Superiority Strategy, CNO Navigation Plan, Distributed Maritime Operations, Expeditionary Advanced Basing Operations* all call out the need for distributed, integrated Force Level EW.
- NSWC Crane provides Non-Kinetic Expertise for Electromagnetic Spectrum Dominance
  - Multi-domain, Multi-spectral, and Multi-service
  - Cognitive & Distributed Non-Kinetic System of Systems Solutions
  - Offensive and Disruptive Concepts and Technologies
- Strong Collaborative Partnerships across the Naval Research and Development Enterprise, Air Force Research Laboratories and Army Research Laboratories

“...develop an EMS enterprise that is **fully integrated, operationally focused,** and designed for great power competition. **Future EMS capabilities** must be able to perform, operate, and **adapt in complex EMOEs.** They must maintain **interoperability with other systems** and be capable of **rapid software and hardware upgrades** to remain relevant against the evolving near-peer threat.” EMS Superiority Strategy 2020



“**The future fleet** will be capable of distributing and delivering larger volumes of kinetic and non-kinetic **effects across all domains** To meet the **strategic and operational demands of the Joint Force.**” CNO NAVPLAN 2022

# EW Strategic Alignment Thrust Areas



Leader in Innovation & Sustainment  
for Force Level EW Mission

Develop our Workforce as  
National Leaders in EW

Transform to Be Agile and  
Leap Frog Near Peer Capabilities

## NATIONAL LEADERS IN ELECTROMAGNETIC WARFARE

- Electromagnetic Spectrum Systems and Sciences  
Investment Guidance**
- Distributed transmit and receive
  - AI/ML-enabled EMS system functions and data pipelines
  - Multi-spectral EMS Capabilities
  - Integrated, multi-sensor EMS capabilities
  - Unmanned and Off-Board EMS capabilities
  - Scalable Electromagnetic Attack
  - Advanced communications/datalinks and EMS Survivability
  - Real-time, closed-loop EMS Modeling and Simulation (M&S) and Test and Evaluation (T&E)
  - Critical and Enabling EMS system components

MISSION  
ENGINEERING



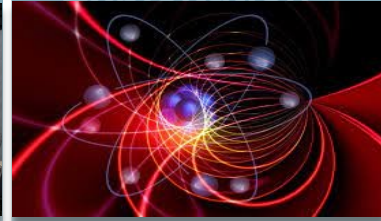
APPS for EW



Advanced  
Electromagnetic  
Spectrum  
Capabilities



EMSO Threat  
Intelligence/  
Exploitation



CNO  
NAVPLAN  
NIF  
Objectives

Long Range Fires  
Counter C5ISR

Terminal Defense  
Unmanned Capabilities

Naval Objective  
Architecture / Overmatch  
Live Virtual Constructive

Artificial Intelligence /  
Machine Learning  
Contested Logistics

- Artificial Intelligence - Autonomous and Cognitive Algorithms
- Data Science
  - Big Data Analytics
  - Mathematicians/Statisticians
  - Predictive Analytics
- Mission Engineering – System of Systems Engineering
  - Model Based Systems Engineering
  - Advanced Analytics of Non-Kinetic Effects
  - Modeling & Simulation
  - LVC
  - Operational – Former Military Experience
  - Threat Analysis and Solution Formulation
- Model Based Product Support
  - Supportability Analysis and Sustainment Solutions
- Software Engineering, Software Development, FPGA, Networks
- Cyber Experience to include cybersecurity and RF Enabled capabilities
- Quantum Science
- Software Defined Technologies– scalable EW Systems Design
- Engineering
  - RF Engineers
  - Communications and digital signal processing experience
  - Hardware Engineers with understanding of Analog and Digital Circuits
  - Systems Engineers
- Test and Evaluation Experience
- Logistics
- Acquisition
- Fabrication Support
- Fleet and Installation Support
- Program Support
- Research and Development Support
- Program Management
- Repair, Production, Depot Support

# CONNECT TO MISSION

**SAVE THE DATE**

*Featuring NSWC Crane: Global Deterrence and Defense Department*

**TUESDAY, JUNE 6, 2023**

**WestGate Academy**

