



◆ UNCOMPROMISING INTEGRITY ◆ RESPECT FOR ALL ◆ COMMITTED TO EXCELLENCE ◆ ALWAYS READY ◆

# JPEO-CBRND

## COMMAND BRIEF

Date

Presenter Name  
Presenter Title

PROGRAMS EXECUTED ON BEHALF OF THE CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM



# WE FACE A COMPLEX THREAT ENVIRONMENT





# WHO WE ARE AND WHAT WE DO



## JPEO-CBRND

**MISSION:** Provide integrated layered chemical, biological, radiological, and nuclear defense capabilities to the Joint Force across Combined Joint All-Domain Operations

**VISION:** A resilient Joint Force enabled to fight and win unencumbered by a chemical, biological, radiological, or nuclear environment; championed by innovative, agile, results-oriented acquisition professionals

COVID CLAIMS OVER 5+ MILLION LIVES

SALISBURY NERVE AGENT POISONING

SYRIA SARIN ATTACK

KIM JONG-NAM ASSASSINATION



## CBDP

**MISSION:** Anticipate future threats and deliver capabilities that enable the Joint Force to fight and win in CB-contested environments

**VISION:** A Joint Force ready to fight and win in CB-contested environments through a coordinated effort designed to neutralize adversarial CB threats

# NATIONAL POLICIES AND GUIDANCE

- ❖ National Security Strategy
- ❖ National Military Strategy to Combat Weapons of Mass Destruction
  - ❖ National Strategy for Homeland Security
- ❖ National Strategy to Combat Weapons of Mass Destruction
  - ❖ Strategy for Homeland Defense and Civil Support
  - ❖ National Strategy for Counterterrorism
- ❖ National Strategy for Countering Biological Threats
  - ❖ National Strategy for Biological Surveillance



Deputy Assistant Secretary  
of Defense for Chemical  
and Biological Defense

## Oversight and Governance



J-8



Joint Requirements  
Office for  
CBRN Defense



Joint Program  
Executive Office  
for CBRN Defense

Acquisition  
Authority



Assistant  
Secretary of the  
Army for AL&T



Defense Threat  
Reduction Agency



Joint Science and  
Technology Office



CBRND Test and  
Evaluation Executive

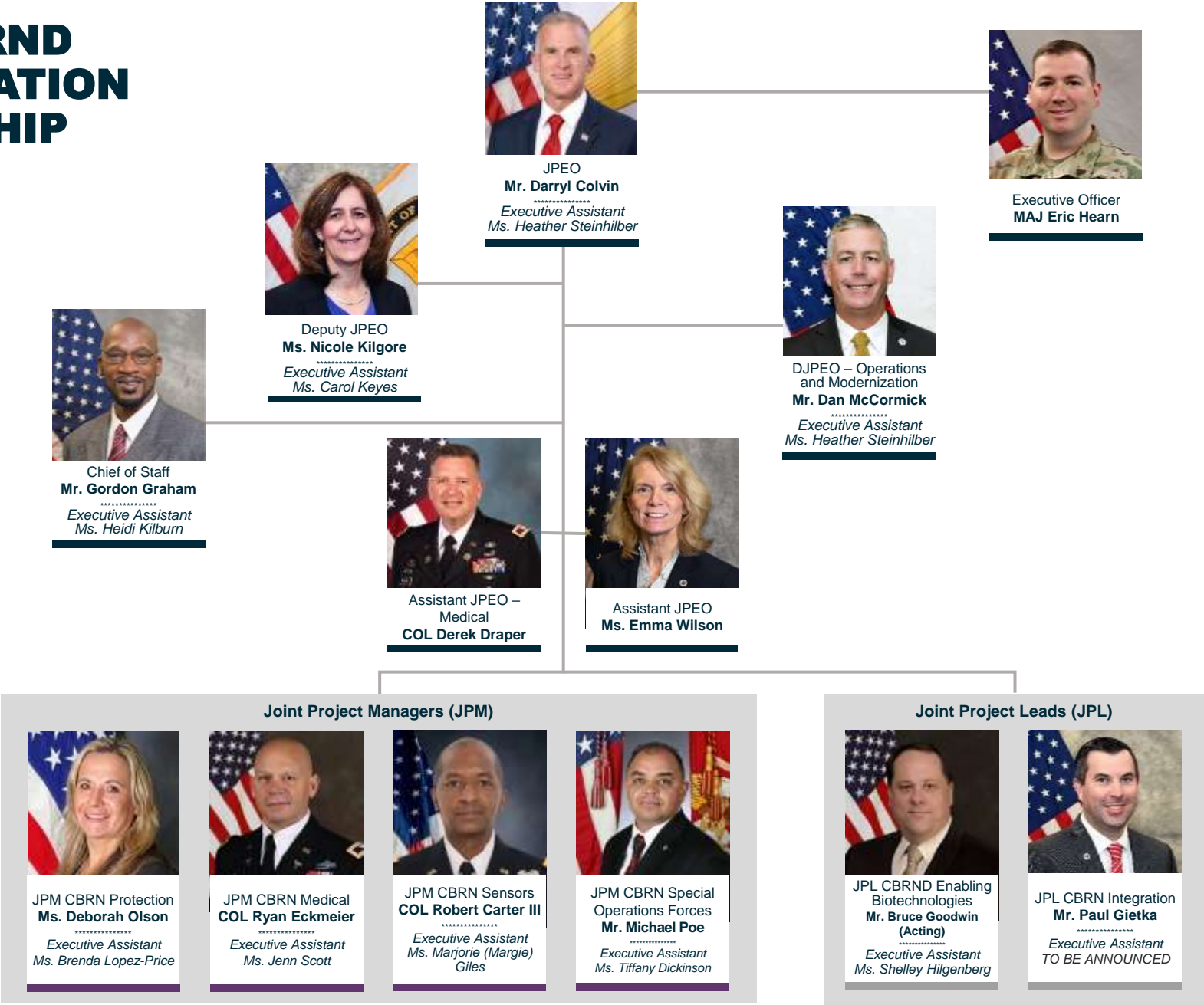


Deputy Under  
Secretary of the  
Army for T&E





# JPEO-CDRND ORGANIZATION LEADERSHIP



# JPEO-CBRND STRATEGIC GOALS



## ● STRATEGIC GOAL 1

Achieve CBRN Defense integration, interoperability, and interdependence across all warfighting domains and functions.

## ● STRATEGIC GOAL 2

Foster an environment that seeks innovative enterprise solutions across industry, academia, and warfighters that is agile, versatile and efficient.

## ● STRATEGIC GOAL 3

Provide indispensable value to the warfighter, DoD, Congress, the Nation and our allies/partners.



# JPEO-CBRND

## MODERNIZATION FOCUS AREAS



### MODERNIZE BIOLOGICAL DEFENSE

- Flexible, Scalable, and Interoperable Threat Agnostic Detection
- Pre-symptomatic and Rapidly Reconfigurable Diagnostics
- Open-Architecture Diagnostic Assays and Platforms
- Biological models (animal, organoid) to assess efficacy and safety
- Host-Response Assays



### INTEGRATED EARLY WARNING

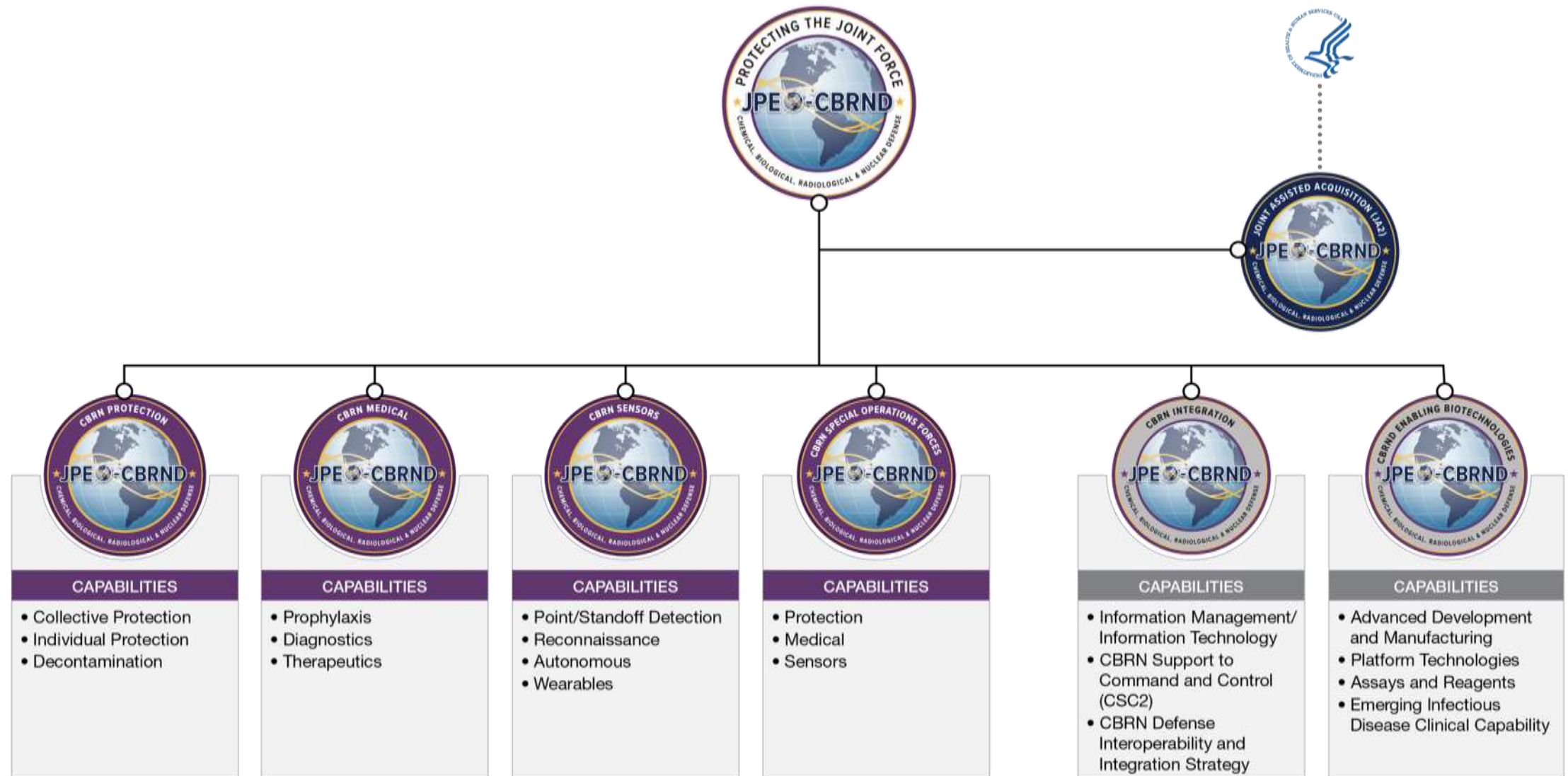
- Threat Characterization and Hazard Modeling
- Artificial Intelligence and Machine Learning
- Wearable Sensors
- CBRN Information Nested with Joint All-Domain Command and Control (JADC2)

### UNENCUMBERING THE WARFIGHTER

- Unobtrusive Individual Protection
- Biothreat Containment and Aeromedical Evacuation to Assure Continuity of Operations
- Quick and Effective Decontamination to Contain and Neutralize Spread

# JPEO-CBRND

## Portfolio Overview





# JPEO-CBRND

## Portfolio Overview



**91 Acquisition Efforts • FY22 CDBP Budget: \$821M** (\$464M RDTE; \$357 PROC)

**JPL CBRN INTEGRATION**

**JPM CBRN PROTECTION**  
**► COLLECTIVE**

**► INDIVIDUAL**

**► DECONTAMINATION**

**JPM CBRN MEDICAL**  
**► PROPHYLAXIS**

**► DIAGNOSTICS**

**► THERAPEUTICS**

**JPM CBRN SENSORS**  
**► POINT/STANDOFF DETECTION**

**► RECONNAISSANCE**

**► AUTONOMOUS**

**JPM CBRN SPECIAL OPERATIONS FORCES**  
**► PROTECTION**

**► MEDICAL**

**► SENSORS**

**JPL CBRND EB**

Command Brief 27 April 2022

UNCLASSIFIED

9





# INTEGRATED LAYERED CBRN DEFENSE



KEY

PROTECTION MEDICAL SENSORS

## UNDERSTAND

SPACE



RECONNAISSANCE



CBRN SUPPORT TO  
COMMAND AND CONTROL



DETECTION



EARLY WARNING



DIAGNOSTICS

CYBER

## PROTECT

AIR



PRE-EXPOSURE PROPHYLAXIS



INDIVIDUAL



COLLECTIVE

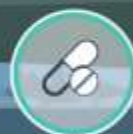
LAND

## MITIGATE

MARITIME



POST-EXPOSURE PROPHYLAXIS



TREATMENTS



PERSONNEL DECON



EQUIPMENT/OBJECT DECON



AREA DECON



# FUTURE CAPABILITIES



## PROTECTION

- Next generation protective ensemble
- Non-restrictive respiratory and ocular protection
- Tactical disablement
- Filtration technologies
- Integrated contamination mitigation
- Coatings and barriers



## MEDICAL

- One treatment, many threats
- Rapid medical countermeasures response
- Genomic sequencing
- Pre-symptomatic diagnostics
- Advanced Manufacturing



## SENSORS

- Robotics and autonomous systems
- Decision support tools
- Machine learning, artificial intelligence
- Space and intelligence, reconnaissance, surveillance
- Threat agnostic detection and identification
- Modernized radiological/nuclear detection and identification
- Integrated Early Warning



**PARTNERS**

Success built on a Foundation of Partnerships with Government, Industry, Academia



ACADEMIA

INDUSTRY

**PEOPLE**

Critical Subject Matter Experts supporting National Response

**13**

Technical Subject Matter Experts Embedded in Leadership Roles with Federal Response Operation

**105+**

12% of 871

Technical, Program Management, and Regulatory Subject Matter Experts Supporting Assisted Acquisition, Research & Development, and Ensuring Regulatory Compliance

Does not include other Army support (e.g., Army Contracting Command, Army Support to Operation Warp Speed/Countermeasures Acceleration Group, etc.)

**PRODUCTS & PROCESSES**

Protecting and Saving Lives with the Full Spectrum of Medical Countermeasures

Enabling Speed and Efficiency through Innovative and New Approaches

**COVID-19 SUPPORT & ASSISTED ACQUISITION****\$65.7B+**

TOTAL OBLIGATED

**200+**

TOTAL CONTRACTS

**125+**

TOTAL COUNTRIES

Leveraged Innovative Approaches and Full Range of DoD Authorities to Acquire Life-saving Vaccines, Therapeutics, and Diagnostics

**VACCINES****\$35.8B+**

OBLIGATED

**9**

CONTRACTS



Vaccines

AstraZeneca, Pfizer, Johnson & Johnson

Lilly, Moderna, Novavax

Pfizer, Sanofi

**DIAGNOSTICS****\$5.9B+**

OBLIGATED

**38**

CONTRACTS



Instruments



Assays



Non Contact Thermometer

Medical Mobile Lab

BioFire, Cepheid, CUB, ellume

**PPE****\$124M+**

OBLIGATED

**15**

CONTRACTS



Masks



Sanitizer



Gloves

**INTERNATIONAL DONATIONS****125+**

COUNTRIES

**522M+**

DOSES



Vaccines



International

**INDUSTRIAL BASE EXPANSION****\$1.0B+**

OBLIGATED

**10**

CONTRACTS



Industrial Base

**COVID-19 RESEARCH & DEVELOPMENT****\$1B+**

TOTAL OBLIGATED

**50**

TOTAL EFFORTS

Accelerated the Development of >25 Vaccines, Therapeutics, Diagnostics, and Enabling Technologies Across DHA, Army, and CBRND Funded Efforts

**VACCINES****\$533M+**

OBLIGATED

**8**

EFFORTS



Vaccines



Monoclonal Antibodies

AstraZeneca, Novavax

DARPA, INOVIO

NOVAVAX

RESILIENCE

**DIAGNOSTICS****\$42M+**

OBLIGATED

**21**

EFFORTS



Surveillance Stick



Assays



Wearables

BioFire, Cepheid, CUB, QIAGEN

maxim, MUSETECH, VISBY, VISBY

**THERAPEUTICS****\$202M+**

OBLIGATED

**13**

EFFORTS



Plasma



Repurposed Drugs

emerge

PTX

SAB

Immunome

PULMOTECT

Immunome

JOHNS HOPKINS

60 Days

LOUISVILLE

**ENABLERS****\$299M+**

OBLIGATED

**8**

EFFORTS



Negatively Pressurized Conex



Clinical Trials

Cepheid

physIQ

RESILIENCE

hjf

m-bio

TASO

PHILIPS

PHILIPS

PHILIPS



# LEVERAGING LESSONS FROM COVID RESPONSE TO IMPROVE FUTURE PREPAREDNESS AND SPEED OF RESPONSE



## Personnel & Partnerships



- Bench of **highly skilled personnel** necessary to enable surge and meet crisis
- Importance of having **established trusted partnerships** in place in time of need



## Support to Joint Force Readiness



- High interdependency between Joint Force readiness and global supply chain requires innovative market research and **funding/decisional flexibility** in a constrained system
- In a crisis, require an operationally focused PEO where **acquisition and operational communities work in parallel** to effectively deploy novel technology



## Research, Development, Test, & Evaluation



- Take advantage of “peace time” to **increase capacity and hone capabilities to accelerate delivery** across PPE, diagnostics, treatment, and prevention in future pandemics/CBRN threats (e.g., clinical trial networks, priority access, refine platforms through MCM development)
- **Continuously evaluate and reprioritize** efforts to redirect resources against the most critical needs as crisis and response evolve



## Rapid Response Acquisitions



- **Established contracting mechanisms** (e.g., MCDC OTA) and cross-functional relationships expedite access to non-traditional industry partners
- Critical role of **understanding incentives** of non-traditional suppliers (e.g., Pharma) in negotiations
- **Acquisition strategy informed by understanding** of supply chain vulnerabilities to build resiliency

# WORK WITH US

JPEOCBRND.OSD.MIL/work-with-us



## GOVERNMENT AND INDUSTRY ENGAGEMENTS

Industry Days

Conferences

Office Calls

CBRNE Industry Group

CONTACT: Public Affairs Office  
usarmy.apg.dod-jpeo-cbrnd.mbx.  
jpeo-cbd-public-affairs-office@army.mil



## TECHNOLOGY AND INNOVATIONS

SPARK

Early Discoveries  
Accelerator for  
Innovative Minds

Cooperative Research  
and Development  
Agreement

JPM CBRN Medical  
TechWatch

CONTACT: Dave Restione  
david.m.restione.civ@army.mil  
443-655-1279

## OTHER TRANSACTION AUTHORITY (OTA)

Medical CBRN Defense  
Consortium (MCDC) OTA

Combating Weapons of Mass  
Destruction (CWMD) OTA

CONTACT:  
MCDC OTA POC: Keith Batchelor  
roger.k.batchelor2.civ@army.mil  
240-586-1523  
www.medcbrn.org

CWMD OTA POC: Lee Hess  
lee.a.hess.civ@army.mil  
240-344-0462  
www.cwmdconsortium.org

## FEDERAL ACQUISITION REGULATION (FAR) CONTRACTS

JE-CLASS – Logistics

JE-OPETS – Contract Support Personnel

JE-RDAP – Development, Procurement,  
and Sustainment

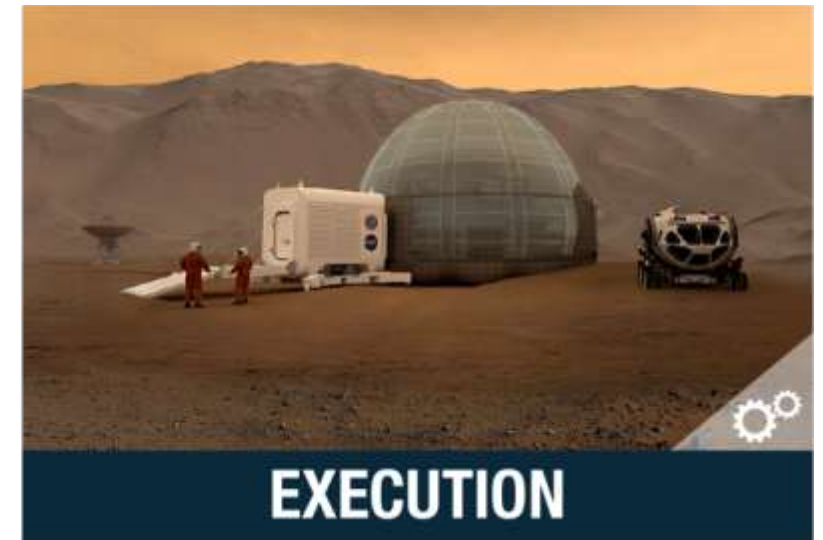
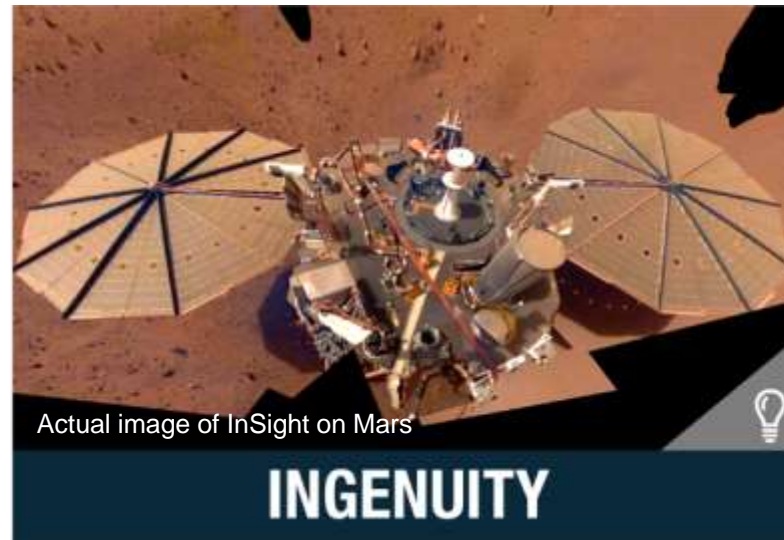
Stand Alone Contracts

Medical Broad Agency Announcement

CONTACT: Alan Burket  
alan.r.burket.civ@army.mil  
443-655-8608



# THINKING BIG TOGETHER



“Never tell people how to do things.  
Tell them what to do and they will surprise  
you with their ingenuity.”

—George S. Patton, U.S. Army General

# CONTACT

## Mr. Darryl J. Colvin

Joint Program Executive Officer for  
Chemical, Biological, Radiological and Nuclear Defense

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410-436-4141

[darryl.j.colvin.civ@army.mil](mailto:darryl.j.colvin.civ@army.mil)

[www.jpeocbrnd.osd.mil](http://www.jpeocbrnd.osd.mil)

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### Public Affairs Office

[usarmy.apg.dod-jpeo-cbrnd.mbx.jpeo-cbd-public-affairs-office@army.mil](mailto:usarmy.apg.dod-jpeo-cbrnd.mbx.jpeo-cbd-public-affairs-office@army.mil)

### Contracting

Keith Batchelor | 240-586-1523

Lee Hess | 240-344-0462

### Online

[jpeocbrnd.osd.mil](http://jpeocbrnd.osd.mil)



@JPEOCBRND





# BACKUPS



# DEPARTMENT OF DEFENSE

## Chemical Biological Defense Program (CBDP)



WHITE HOUSE



THE PENTAGON





# FMS & INTERNATIONAL PORTFOLIO



21 March 2022

## USEUCOM

- NATO CBRN Concepts, Working Groups, Panels and Programs
- Euro-Atlantic Disaster Response Coordination Center
- US/UK Collaboration/ESEP • SC Initiatives
- Coalition/Regional Interoperability • Long-term Sustainment

## USNORTHCOM

- US/CAN Agreements and Exchanges
- Homeland Security Support to Other GCCs

## USSOUTHCOM

- SC Support

## USAFRICOM

- SC and OHDACA Support

## USCENTCOM

- Capability Based Assessments • Bilat/Multi-National Exercises
- Subject Matter Expert Exchanges
- Coalition/Regional Interoperability
- Crisis Management/Counter WMD Symposiums
- CWMD Regional Lab/Mobile Labs • Counter ISIS
- Long-term Sustainment

## USINDOPACOM

- Pacific Symposium CWMD WGs • US/ROK Collaboration
- AUS/NZ Collaboration/ESEP • Capability Based Assessments
- Bilat Exercises • Long-term Sustainment



JPEO-CBRND DIRECTLY SUPPORTS NATIONAL, DOD, AND ARMY GUIDANCE, STRATEGIES, AND PLANS

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# CORE VALUES



## UNCOMPROMISING INTEGRITY

Perform your work to the highest standard. Be honest and transparent, even when it's difficult. Be accountable for your words and your actions. Choose to do what's right every time.



## COMMITTED TO EXCELLENCE

Our Warfighters deserve the best we can deliver, so strive for greatness in all your work. Keep your mind open to new and different ways of doing things. Be willing to accept feedback and seek opportunities to learn and improve.



## RESPECT FOR ALL

Each member of the JPEO family has their own values, experiences, and identities. Take that into consideration in all your interactions. Treat yourself and others with dignity and fairness.



## ALWAYS READY

No matter what challenges we face, always be ready to adapt and respond. We can accomplish anything when we work as a team.