

# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // June 18, 2024

## DARPA SHOWS CONCEPTS FOR THE FUTURE OF VTOL UNCREWED AERIAL SYSTEMS

DARPA's AdvaNced airCRAFT Infrastructure-Less Launch And RecoverY program, known as ANCILLARY, shows six design concepts for a low-weight, large-payload, long-endurance VTOL uncrewed X-plane. The innovative configurations and critical technology designs come from a wide array of performers, from small start-up to legacy aerospace companies, broadening the network of partners contributing to the program.

[CLICK HERE TO LEARN MORE.](#)

## DID YOU MISS OUR LAST WEBINAR?

"Applying the Autonomous Ground Vehicle Reference Architecture to MBSE"

[WATCH NOW!](#)

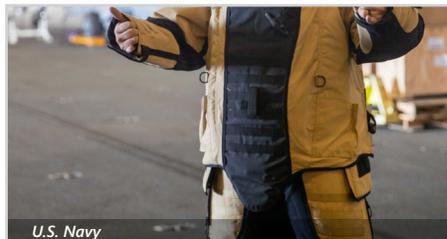
[or download the slides](#)

## NOTABLE TECHNICAL INQUIRY

### What AM materials can be medically used and reused under military central sterile processing standards?

The use of polymer additive manufacturing (AM) for single-use and reusable medical devices in austere environments is of interest to the U.S. Department of Defense. The ability to field a deployable AM resource with enough filament to sustain 60–90 days helps create a more independent and well-rounded medical team and closes air gaps on supply chain reliance. This report includes a literature survey to gather insights into the available medical... [READ MORE](#)

## UPCOMING WEBINAR



U.S. Navy

### NSWC Indian Head Division Battle Lab

Date: July (exact date TBD)

*Presenter(s): Catherine Eaton*

*Host: DSIAC*

In the last decade, Warfighters have grown reliant on commercial-off-the-shelf (COTS) equipment to meet their operational needs rather than use traditional U.S. Department of Defense acquisition paths. Although COTS systems may offer a responsive and rapid procurement, they carry a substantial risk to front-line Warfighters due to lack of objective test and evaluation in realistic, relevant conditions. Most importantly, there is a lack of operational... [READ MORE](#)



## HIGHLIGHT

### DoD Releases Open Announcement Through Other Transaction Authority for U.S. and Selected International Partners

The U.S. Department of Defense (DoD) has released a new Open Announcement through the Defense Industrial Base Consortium Other Transaction Authority (DIBC OTA) that will accept unsolicited white papers to be considered for Defense Production Act (DPA) Title III and Industrial Base... [LEARN MORE](#)

## EVENTS

#### NSMMS/CRASTE 2024

June 24–27, 2024  
Madison, WI

#### Digital Engineering for Defense Summit

June 26–27, 2024  
National Harbor, MD

#### Military Standard 810 (MIL-STD-810) Test Training Open Course (Element Materials Technology – Boxborough, MA)

July 15–18, 2024  
Boxborough, MA

#### The 2024 FAA Drone and Advanced Air Mobility Symposium

July 30–August 1, 2024  
Baltimore, MD

#### Joint Air Survivability Summit 2024

July 31–August 1, 2024  
National Harbor, MD

#### 17th International Detonation Symposium

August 4–9, 2024  
Kansas City, MO

#### Want your event listed here?

Email [contact@dsiac.org](mailto:contact@dsiac.org) to share your event.



## VOICE FROM THE COMMUNITY

### Jimmy Russell

*Materials and Processes Engineer, Missile Defense Agency (MDA)*

Jimmy Russell is a parts materials and processes engineer contractor at MDA, where he works on systems engineering and materials science subjects for specialty engineering and broad parts management efforts. Some of his focus areas include additive manufacturing, quality assurance, system survivability and radiation hardness assurance, counterfeit awareness and mitigations, obsolescence, and modernization efforts for the Ground-Based Midcourse Defense system platforms.

## ARE YOU A SME?

If you are a contributing member of the information systems community and are willing to help others with your expertise, you are a subject matter expert (SME).

Join our team today.

**BECOME A SUBJECT MATTER EXPERT**

## ABOUT TECHNICAL INQUIRIES (TIs)

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### WHAT IS THE TI RESEARCH SERVICE?

- FREE service conducted by technical analysts
- 4 hours of information research
- Response in 10 business days or less

### WHO CAN SUBMIT A TI?

- U.S. government (federal, state, or local)
- Military personnel
- Contractors working on a government or military contract

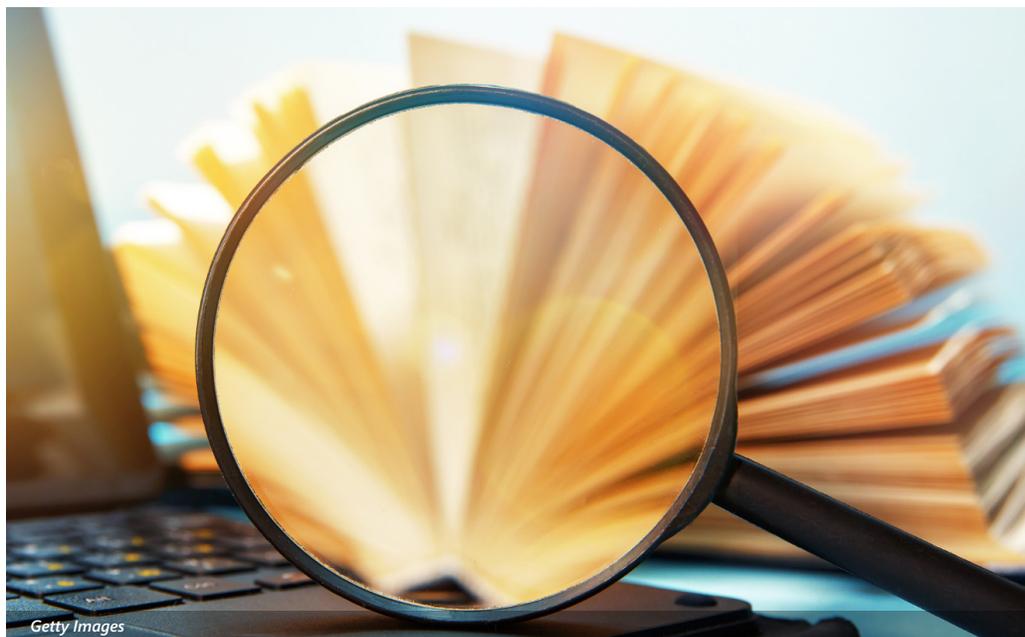
### WHY UTILIZE THE TI RESEARCH SERVICE?

- Get a head start on your technical questions or studies
- Discover hard-to-find information
- Find and connect with other subject matter experts in the field
- Reduce redundancy of efforts across the government

To submit a TI, go to  
<https://dsiac.org/technical-inquiries>

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## RECENT DSIAC TIs

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- Can you provide information on directed energy weapons for a U.S. Air Force Test Pilot School Space Test Center course?
- What work is being done to additively manufacture high entropy or refractory alloys?
- What is the current state of research in wind tunnel models, and how do they fit within the digital test environment?

## RECENT CSIAC & HDIAC TIs

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- Can you provide information and a government point of contact for the ChatSurfer software?
- What information is available on conversion efficiencies of chemical warfare agents V to G using silver fluoride conversion pads/tubes?
- Is there any empirical data for dry decontamination operational procedures?

## FEATURED NEWS

### Space Force Official Outlines Roadmap for Commercial Partnerships

Lt. Gen. Shawn N. Bratton, the Space Force’s deputy chief of space operations, strategy, plans, programs, and requirements, said the service’s recently released Commercial Space Strategy challenges... [READ MORE](#)

## RECENT NEWS



**Radar Is Advancing at Historic Speed. How Engineers Are Setting the Pace.**

Sandia National Laboratories



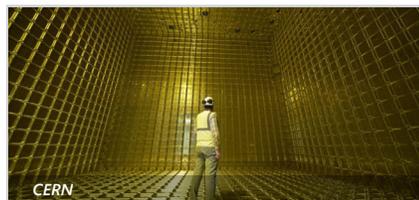
**Neutrons Open Window to Explore Space Glass**

Oak Ridge National Laboratory



**Navy’s Future Vertical Lift (Maritime Strike) Passes Key Milestone: Completes Gate 2 R3B**

Naval Air Systems Command



**Building a Better Neutrino Trap**

Los Alamos National Laboratory



**SpaceWERX Completes Innovate to Accelerate Workshop**

Defense Visual Information Distribution Service



**Lighten Up**

U.S. Army



- Advanced Materials
- Autonomous Systems
- C4ISR
- Directed Energy
- Energetics
- Military Sensing
- Non-Lethal Weapons
- RMQSI
- Survivability & Vulnerability
- Weapons Systems

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