

The Latest From the Defense Systems Information Analysis Center // August 19, 2025

# FY25 JAS PROGRAM REVIEW

The Joint Aircraft Survivability Program (JASP) Office will host the 2025 Joint Aircraft Survivability Program Review at the Joint Center for Electromagnetic Readiness at Nellis Air Force Base in Nevada from 16-18 September 2025. The purpose of the review is to facilitate aviation survivability dialogue between the science and technology, acquisition, industry, academia, and operational communities. This will be achieved by presenting a technical overview of the JASP and fiscal year 2025 projects and informing the aviation community of our efforts. This year's event will be held in person and virtually.

Click **HERE** to learn more.

## DID YOU MISS OUR PAST WEBINAR?

"Better, Faster, Cheaper Metallic Components: NSF's HAMMER-ERC"

► WATCH NOW!

or download the slides

### NOTABLE TECHNICAL INQUIRY

What is the current state of the digital-engineering tool landscape, with a focus on application to the U.S. Department of Defense?

This report surveys the state of the current digital-engineering (DE) tool landscape, with specific emphasis on applications relevant to the U.S. Department of Defense (DoD). The request originated from an inquiry seeking to understand the state of DE tools without disclosing personally identifiable information. The study excludes areas that have been heavily analyzed in prior literature, such as artificial intelligence (AI)/machine learning... **READ MORE** 

### **UPCOMING WEBINAR**



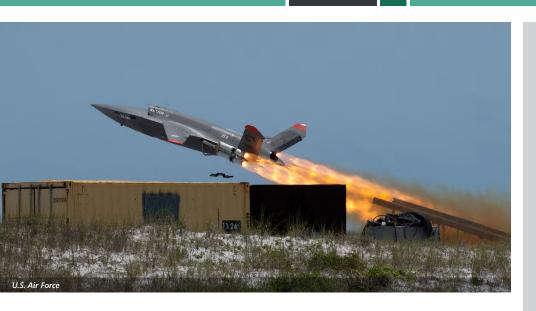
Attritable Unmanned Aircraft Systems: Conceptualization...

COMING SOON 12:00 PM – 1:00 PM

Host: DSIAC

Presenter(s): Deanna Milonas, Taylor H. Knight

Air domain operations are critical to the U.S. military defense strategy. Military air domain missions use aircraft for tasks like attack; resupply; rescue; intelligence, surveillance, and reconnaissance; etc. Historically, air domain missions required manned aircraft, putting the aviator at risk. In the 1990s, the military began replacing manned aircraft with unmanned aircraft. Unmanned aerial systems (UASs) remove the risk to human aviators... **READ MORE** 



### HIGHLIGHT

# **Air Force Advances Human-Machine Teaming With Autonomous Collaborative Platforms**

EGLIN AIR FORCE BASE, Fla. – The U.S. Air Force recently demonstrated a major leap in human-machine teaming, flying autonomous collaborative platforms (ACPs) alongside crewed fighter aircraft during a training event at Eglin Air Force Base, Florida. Pilots operating an F-16C Fighting Falcon and an F-15E Strike Eagle each controlled two XQ-58A Valkyrie aircraft in an air combat training scenario, showcasing real-time integration between... **LEARN MORE** 

### **EVENTS**

**FY25 JAS Program Review** September 16–18, 2025 *Nellis Air Force Base, NV* 

2025 Advanced Functional Fabrics Summit

September 23–24, 2025 Foxborough, MA

**Future Force Capabilities Conference & Exhibition**September 30–October 3, 2025 *Fort Worth, TX* 

Threat Weapons & Effects (TWE) Training 2025

October 28–30, 2025 Eglin Air Force Base, FL

Want your event listed here? Email contact@dsiac.org to share your event.

•••••



# VOICE FROM THE COMMUNITY

#### Joseph Maestas

Weapon Physics Group Leader, Applied Research Associates, Inc. (ARA)

Joseph Maestas leads ARA's Weapon
Physics Group, specializing in highfidelity modeling and simulation, fuzing,
and onboard instrumentation for hard
target defeat, hypersonic, and maritime
target applications. He is an energetics
modeling and simulation subject matter
expert, with a background in virtual,
physics-based analyses for evaluating
weapon performance; explosive fill
survivability research; lethality methodology
development; and model development for
nonideal, enhanced blast, and combined
effects explosives.

### **ARE YOU A SME?**

If you are a contributing member of the defense 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



# 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.dtic.mil/technical-inquiries











### **EXAMPLE DSIAC TIS**

- How can someone access the Joint Radio-Frequency Effectiveness Model?
- What are the U.S. Department of Defense standard practices for electromagnetic-interference protection on aerospace vehicles?
- What work is being done with MXene composites (particularly graphene, carbon nanotube, and boron nitride) in national laboratories and in the U.S. Department of Defense?

**MORE DSIAC INQUIRIES** 

### **EXAMPLE CSIAC & HDIAC TIS**

- Can CSIAC provide access to use the Defense Modeling and Simulation Office Master Environment Library?
- How do first-responder teams on a military base use automated drones (machine learning, computer vision, 5G command and control)?
- What are the key emerging and reemerging infectious diseases in west and central Africa?

### **VIEW MORE TIS**

The Information Analysis Centers answer more inquiries outside the scope of DSIAC's focus areas. To search more research topics, visit our sister websites to expand your search.



**HDIAC INQUIRIES** 



### **FEATURED NEWS**

#### **DoD Adopts Standard for Human Readiness Levels**

First created by NASA in the 1970s, the Technology Readiness Level (TRL) – which measures the progress of new technology from basic research to completion – was formalized in 1989. TRLs track both commercial and government product development and is common... READ MORE

### **RECENT NEWS**



**Researchers Capture Nanoparticle Movements to Forge New Materials** 

University of Illinois Urbana-Champaign







Milestone Sensor Upgrade **Enhances Space Force Identifying, Tracking Capability** 

U.S. Space Force







NASA, Johns Hopkins APL **Poised to Demonstrate Next-Gen Spacecraft Comms Technology** 

Johns Hopkins Applied Physics Laboratory





**GTRI Develops New Polarization-Diverse X-Band AESA Testbed** 

Georgia Tech Research Institute







A New Platform for Developing **Advanced Metals at Scale** 

Massachusetts Institute of Technology







**Modernized GPS Operating System Closer to Operational** Integration

U.S. Space Force







**Advanced Materials** 



**Autonomous Systems** 



C4ISR



**Directed Energy** 



Energetics



Military Sensing



Non-Lethal Weapons



**RMQSI** 



Survivability & Vulnerability



Weapons Systems

The inclusion of hyperlinks does not constitute an endorsement by DSIAC or the U.S. Department of Defense (DoD) of the respective sites nor the information, products, or services contained therein. **DSIAC** is a Defense Technical Information Center (DTIC)-sponsored Information Analysis Center, with policy oversight provided by the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)). Reference herein to any specific commercial products, processes, or services by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the U.S. government or DSIAC.

4695 Millennium Drive, Belcamp, MD 21017 443-360-4600 | contact@dsiac.org | dsiac.dtic.mil | Unsubscribe | Past Digests







