

HOMELAND

Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // June 10, 2025

CBRN RESPIRATORY PROTECTION HANDBOOK, REVISED MAY 2025

The National Institute for Occupational Safety and Health (NIOSH) released the revised "Chemical, Biological, Radiological, and Nuclear (CBRN) Respiratory Protection Handbook," which updates the original publication no. 2018-166.

This handbook reflects new and emerging chemical and radiological hazards information identified during a recent hazard assessment conducted by NIOSH, the Department of Homeland Security, and the U.S. Department of Defense.

Download the handbook here:

<https://www.cdc.gov/niosh/docs/2025-111/>.

DID YOU MISS OUR LAST WEBINAR?

"Terrorist Exploitation of Commercial Technologies and Implications for U.S. National and Homeland Security..."

 **WATCH NOW!**

[or download the slides](#)

NOTABLE TECHNICAL INQUIRY

What companies are developing or manufacturing automated or modular biomanufacturing capabilities?

The Homeland Defense and Security Information Analysis Center (HDIAC) was asked to provide information on two separate but interrelated aspects of biomanufacturing capabilities: (1) what companies (global and American) are developing/manufacturing automated biomanufacturing... [READ MORE](#)

UPCOMING WEBINAR



U.S. National Guard

Traumatic Brain Injury: Current Landscape and Emerging Research

June 10, 2025
12:00 PM – 1:00 PM

Presenter(s): John Clements

Host: HDIAC

The brain is the most complex organ in the human body. New research continually emerges, increasing the understanding of the brain. With each new breakthrough, more questions arise. The research has major impacts on members of the U.S. Department of Defense (DoD), with over... [READ MORE](#)

FUTURE WEBINARS

Emergency Management Intelligence: The Need for Civilian Authorities Support

COMING SOON
12:00 PM – 1:00 PM



U.S. National Guard

HIGHLIGHT

HDIAC Announces Its Latest SOAR on Brain Health

HDIAC is pleased to announce publication of our latest state-of-the art report (SOAR) on "Brain Health: Baseline, Diagnosis, and Recovery From Traumatic Brain Injuries of Varying Severity."

This report explores recent research and development on traumatic brain injury (TBI) and mild TBI, focusing on computerized baselining, diagnosis, and cognitive functions tests. Presented are results of longitudinal studies into the impact of multiple low-level blast injuries over the course of a servicemember's career. [LEARN MORE](#)

EVENTS

DoD Energy & Power Summit

July 9–10, 2025
Washington, DC

GridSecCon 2025

October 7–10, 2025
Las Vegas, NV

TechNet Indo-Pacific 2025

October 28–30, 2025
Honolulu, HI

Want your event listed here?

Email contact@hdiac.org to share your event.



VOICE FROM THE COMMUNITY

Nicole Bennett

Research Inquiry Analyst, Defense Systems Information Analysis Center (DSIAC)

Nicole Bennett is a research inquiry analyst for DSIAC, focusing on conducting research primarily in DSIAC's 10 technical focus areas and generating reports for the DoD community. She also conducts research for the Homeland Defense and Security Information Analysis Center. With a background in security and terrorism studies, she has researched topics on biometrics, critical infrastructure, unmanned/counter-unmanned aerial systems, medical systems, and weapons systems.

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).

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MATTER EXPERT**

TECHNICAL INQUIRIES (TIs)

Getty Images

WHAT IS THE TI RESEARCH SERVICE?

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- 4 hours of information research
- Response in 10 business days or less

WHO CAN SUBMIT A TI?

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- Military personnel
- Contractors working on a government or military contract

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- Reduce redundancy of efforts across the government

To submit a TI, go to

<https://hdiac.dtic.mil/technical-inquiries>

EXAMPLE HDIAC TIs

- Who are the U.S. manufacturers of commercial-off-the-shelf bioreactors?
- What are the recent innovations in reducing hazardous waste and/or recovering materials during disposal of lithium-based batteries?
- Can research be provided on available products for quick triage and monitoring of mass casualty victims?

[MORE HDIAC INQUIRIES](#)

EXAMPLE CSIAC & DSIAC TIs

- Who in the U.S. Department of Defense has a suite of software tools to perform a detailed analysis and numerical simulations that can be employed to calculate radar cross section based on an unmanned aerial vehicle's three-dimensional model?
- What technologies exist that could protect commercial aircraft against jamming and spoofing?
- Can a list of subject matter experts in propellant formulation, diagnostics, and modeling be provided?

VIEW MORE TIs

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

[CSIAC INQUIRIES](#)

[DSIAC INQUIRIES](#)



FEATURED NEWS

DHS S&T Releases New Tool to Strengthen Global Navigation Satellite Systems for Critical Infrastructure

WASHINGTON – The Department of Homeland Security (DHS) Science and Technology Directorate (S&T) launched an important new resource on GitHub to help safeguard critical infrastructure: the Global... [READ MORE](#)

RECENT NEWS



U.S. Marine Corps

DoD Brain Health Initiative Helps Protect Service Members

U.S. Department of Defense



Freepik

Data-as-a-Product: A Force Multiplier for CBRN Defense

U.S. Army



Craig Fritz

Designing Long-Duration Toxin Sensors

Sandia National Laboratories



Johns Hopkins APL

News Revolutionizing Battlefield Medicine: Augmented Reality for Lifesaving Trauma Care

Johns Hopkins Applied Physics Laboratory



USU

USU Study Leverages Machine Learning to Improve Suicide Risk Detection in Soldiers

Uniformed Services University



Bret Lattner

Lights on at LIHE

Sandia National Laboratories



Alternative Energy



Biometrics



CBRNE Defense



Critical Infrastructure Protection



Cultural Studies



Homeland Defense & Security



Medical



Weapons of Mass Destruction

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