

NATIONAL URBAN SECURITY TECHNOLOGY LABORATORY

The [National Urban Security Technology Laboratory \(NUSTL\)](#) is a federal laboratory organized within the U.S. Department of Homeland Security (DHS) Science and Technology Directorate (S&T). Building upon its proud history since 1947, NUSTL provides the national first responder community with the necessary services, products, and tools to prevent, protect against, mitigate, respond to, and recover from homeland security threats.



TEST AND EVALUATION

NUSTL conducts testing and evaluation (T&E) that influences technology development and informs acquisition and deployment decisions. NUSTL's test, evaluation, and assessment activities ensure technology effectiveness, performance, and suitability. Partnering with technology end users to understand their most pressing needs and challenges, the lab validates technology requirements and evaluates operational readiness to strengthen the capabilities of our nation's first responders. NUSTL provides a full spectrum of testing services for commercial off-the-shelf and emerging technologies:

- Operational T&E and field assessments
- Independent laboratory testing
- Technology performance characterization
- Operational experimentations with end users and private industry manufacturers

RADIOLOGICAL/NUCLEAR RESPONSE AND RECOVERY

With federal interagency partners, NUSTL's research and development (R&D) portfolio provides technical support, tools and guidance in advance of a radiological/nuclear incident so that state and local agencies can initiate a response in the first minutes and hours. NUSTL's actionable guidance and technology solutions enhance response capabilities for:

- Managing the complexity of a radiological response
- Incident characterization and initial decision-making
- Immediate lifesaving and issuing of protective actions
- Stabilization and control of impacted areas
- Site cleanup and decontamination

NUSTL's R&D activities transition capabilities to first responders and the federal response assets that support them, so they can seamlessly integrate to save lives and minimize impacts to the community and economy.

TECHNICAL ADVISORS TO FIRST RESPONDERS

NUSTL relays first responder issues and needs to developers, while advising first responders on innovative solutions from the technology development community:

- Develops [knowledge products and reports](#) that inform first responders on the selection, use, and maintenance of equipment and technology.
- Hosts New York Area Science and Technology (NYAST) Forums to highlight developments in science and technology for the homeland security community. NYAST has more than 500 members from 150 different federal, state and local agencies, academia, and private industry.
- Supports radiation detection training and exercises for federal, state, and local first responders by providing licensed radioactive sources, equipment, and subject matter expertise.