# NATIONAL URBAN SECURITY TECHNOLOGY LABORATORY (NUSTL)

**Location:** New York City, NY

**Core Competencies:** Test, Evaluation, and Assessments of First Responder Technologies; Technical Advisors to Emergency Responders; Radiological/Nuclear Response and Recovery Research and Development

**Accreditations:** ISO 9001 (in preparation), ISO 14001, ANSI/AIHA Z-1017000 (compliant)

**Key Customers:** Federal, State, and Local First Responders

The National Urban Security Technology Laboratory (NUSTL) is a federal laboratory organized within the US Department of Homeland Security, Science & Technology Directorate, First Responders Group. Building upon our proud history since 1947, the lab currently provides services and products to help First Responders prepare, protect, and respond to homeland security matters.

## Test, Evaluation, and Assessments

NUSTL conducts tests, evaluations, and operational assessments of homeland security technologies for the national first responder community. The NUSTL team provides a full spectrum of services for laboratory and field testing campaigns. Work products inform the national first responder community for technology acquisition, deployment, and sustainment.

- Published dozens of knowledge products for the System Assessment and Validation for Emergency Responders (SAVER) Program since 2008.
- Conducted tests of In-Q-Tel-sponsored emerging technologies with New York City first responder organizations.
- Conducted operational field assessments of rapidly prototyped technologies under the First Responders Technologies program (R-Tech).
- Tested several thousand radiation detectors for the Securing the Cities program since its inception in 2007.

## Technical Advisors to First Responders

The NUSTL team's daily interactions with homeland security operational units position the Lab to act as a bridge between technology developers and end users. NUSTL relays responder issues and needs to developers while advising operational end users on innovative solutions from the technology development community.

- Hosted 32 New York Area Science and Technology forums. Since 2004, more than 1300 members have attended in person and several thousand more viewed webcasts nationwide.
- Designed, developed, tested, and transitioned to operational use the Radiological Emergency Management System (REMS), a radiation sensor network. NUSTL continues to act as a resource for national deployments of REMS.
- Supported training and exercises for more than 1500 state and local first responders by providing licensed radioactive sources and support materials.
- Supported the development of standards for environmental dosimetry (ANSI N13.37), personal radiation detectors (N42.32), emergency dosimeters (N42.49), and neutrons (ISO TC85).
- Received the first patent issued to the Department of Homeland Security: # 7,781,747 for "very thin dosimeter filters and low profile dosimeters."

## Radiological/Nuclear Response and Recovery

NUSTL works with federal interagency partners and first responders to identify needs and invest in impactful R&D to save lives, minimize economic impact, and enhance resiliency following a radiological/nuclear event.

- Partnered with the Defense Threat Reduction Agency to test the operability of first responder communications equipment following electromagnetic pulse impacts.
- Partnered with the Environmental Protection Agency to develop waste management and decontamination tools and guidance.

## Contact

Questions? Email *nustl@dhs.gov* for more information.



Homeland Security
Science and Technology