

BACKGROUND

The Department of Homeland Security (DHS) Science and Technology Directorate (S&T) Office of National Laboratories (ONL) supports DHS operational components and partners with a centralized, coordinated network of laboratories for research, development, test and evaluation (RDT&E). This laboratory network includes S&T's in-house laboratories, which align to enduring RDT&E needs of the Department, as well as auxiliary capabilities provided through the U.S. Department of Energy (DOE) National Laboratories and other government laboratories and sites.

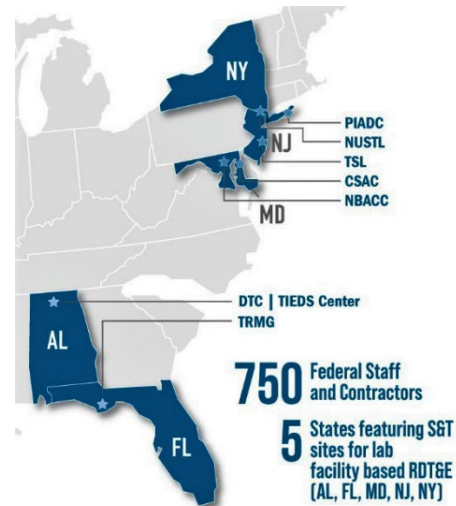
MISSION AND VISION

- **MISSION:** Enable DHS S&T's solution delivery through a coordinated network of laboratories providing technical expertise and RDT&E capabilities to deliver timely solutions and support Departmental acquisitions.
- **VISION:** Achieve a safer and more resilient nation through an integrated homeland security-based laboratory network.

FIVE IN-HOUSE S&T LABORATORIES

ONL ensures the safe, secure, and compliant management and operations of S&T's five in-house laboratories and capabilities, which include seven sites located in five states:

- **Chemical Security Analysis Center (CSAC)** – Aberdeen Proving Ground, Maryland
- **National Biodefense Analysis and Countermeasures Center (NBACC)** – Fort Detrick, Maryland
- **National Urban Security Technology Laboratory (NUSTL)** – New York City (Manhattan), New York
- **Plum Island Animal Disease Center (PIADC)** – Orient Point, New York
- **Transportation Security Laboratory (TSL)** – Atlantic City, New Jersey
 - **TSL Detection Technology Center (DTC)** – Terrorist Explosive Device Analytical Center (TEDAC) Improvised Explosives Detection and Synthesis (TIEDS) Center, Huntsville, Alabama
 - **TSL Tyndall Reactive Materials Group (TRMG)** – Tyndall Airforce Base, Panama City, Florida



S&T's lab facilities enhance homeland security by providing technology, knowledge, and expertise. These capabilities provide indispensable support to DHS operational components and partners alike, and have been instrumental in addressing dynamic mission areas using:

- **Chemical security analysis** to help DHS fight the opioid scourge and characterize various chemical threats.
- **Biological forensics and threat characterization** on pathogens like SARS-CoV-2, Ebola and Anthrax.
- **First responder technology** evaluations to ensure our operators in the field have the right tools to execute.
- **Animal agriculture defense** to mitigate threats of transboundary diseases like African Swine Fever virus.
- **Detection science** to enhance transportation security, using machine learning, artificial intelligence, and other advanced techniques.

S&T's laboratories require dedicated resources to maintain modern capabilities with strategic investment in their infrastructure to support the DHS mission.

PARTNERSHIPS WITH DOE LABORATORIES

ONL is proactive in identifying research programs at the DOE National Laboratories that may have potential to accelerate delivery of technological solutions. ONL facilitates access for DHS to the DOE labs through enduring partnerships and by aligning work occurring across S&T to capability offerings that exist within the DOE National Laboratories.