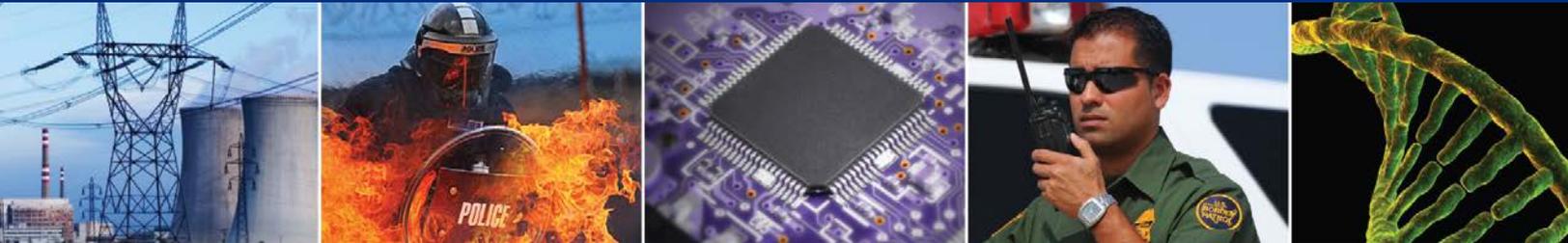


# DHS Science and Technology Directorate

## The DHS Science and Technology Directorate



### Mission

To deliver effective and innovative insight, methods and solutions for the critical needs of the Homeland Security Enterprise (HSE).

### History

The [Science and Technology Directorate](#) (S&T) was stood up when the Department of Homeland Security (DHS) was established on March 1, 2003.

### Major authorities

- » Homeland Security Act of 2002 (6 U.S.C. Sections 181 – 195c)
- » National Incident Management System, Homeland Security Presidential Directive (HSPD)-5: Management of Domestic Incidents
- » HSPD-7: Critical Infrastructure Identification, Prioritization and Protection
- » HSPD-9: Defense of U.S. Department of Agriculture (USDA) and Food
- » DHS Delegation 1001 and 1002: “Delegation to the Under Secretary for S&T (USST)” and “Delegation to the USST for S&T to Facilitate Technology Transfer”

### Key roles and successes

- » Ensures DHS and the homeland security community have the science, technical information and capabilities they need to help prevent, protect against, respond to and recover from major threats and disasters, both man-made and natural.
- » Develops state-of-the-art solutions to protect the Nation’s people and critical infrastructure from chemical, biological, explosive, radiological/nuclear and cyber attacks.
- » Provides strategic and focused technology options and process enhancements; seeks innovative, system-based solutions to complex HSE problems; and discovers,

adapts and leverages technology solutions developed domestically and internationally.

- » Serves as a trusted partner for DHS operators and state, local, tribal and territorial first responders. It is important to recognize that although research and development (R&D) is the backbone of this organization, S&T maintains a complex set of roles and responsibilities that extend beyond a traditional R&D organization.

### Strategic directions

- » Keeping pace with evolving threats and security challenges, S&T will implement several strategic objectives and initiatives. Through this work, S&T will ensure DHS is poised to bridge current capability gaps as well as anticipate homeland security challenges 20 to 30 years ahead.
- » Balancing security concerns with the need to share information publicly.
- » Identifying and leveraging investments by others that can be adapted for homeland security applications, resulting in a shorter development cycle and a greater return on investment dollars.
- » Providing the bridge that connects emerging technologies with commercial success. Answer the questions: Why should taxpayers continue to fund this program/project? What return will taxpayers receive from successful implementation of the solution?

### Major initiatives

- » [Apex programs](#) are high-priority, high-value projects geared to the unique missions and requirements of DHS components. S&T’s Apex programs are directly linked to our Visionary Goals. Given the complexity and range of issues involved, these high-profile and multidisciplinary programs span three to five years and undergo quarterly reviews by an executive steering committee. Each Apex program consists of a balanced



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portfolio of projects with scientifically feasible risk that span basic research to advanced technology development.

- » S&T is reinventing the R&D process and injecting innovation into our business process by targeting non-traditional partners.
- » S&T launched an [Accelerator program](#) in March 2015. The program incorporates business accelerators into its toolkit for identifying companies whose technologies could represent the next generation of solutions for DHS end users. S&T is piloting its accelerator program in the field of wearable technology, a high priority for its Next Generation First Responder initiative.
- » The first S&T [Prize competition](#), “[Where Am I, Where Is My Team?](#)” [Indoor Tracking of the Next Generation First Responder](#), successfully ran from March 2015 until winners were [announced](#) in May 2015. It incentivizes innovative ideas and solutions to address a wide range of challenges while inspiring and mobilizing diverse, non-traditional talent. Additional competitions are planned.
- » The [National Conversation on Homeland Security Technology](#), a series of online and in-person discussions, began in January 2015 as a way to get people talking about how to innovate solutions for the nation’s homeland security challenges. The National Conversation is intended to foster exchange between responders/operational users and innovators to generate sustainable homeland security solutions that will help keep our communities and those who protect them safe and resilient.
- » The new [National Bio and Agro-Defense Facility \(NBAF\)](#) in Manhattan, Kansas, which had a groundbreaking ceremony in May 2015, will be a state-of-the-art biocontainment facility for the study of foreign animals, emerging and zoonotic diseases. At NBAF, S&T and the USDA will conduct research, develop vaccines and other countermeasures and train veterinarians in preparedness and response against these diseases.

### Leadership

#### Under Secretary for Science & Technology

Dr. Reginald Brothers

#### Deputy Under Secretary for Science & Technology

Dr. Robert Griffin

#### Director (Acting), [First Responders Group](#)

Dan Cotter

#### Director, [Homeland Security Advanced Research Projects Agency](#)

Dr. Jennifer Ricklin

#### Director, [Capability Development Support Group](#)

Dr. Steven Hutchison

#### Director (Acting), [Research & Development Partnerships](#)

Joseph Martin



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