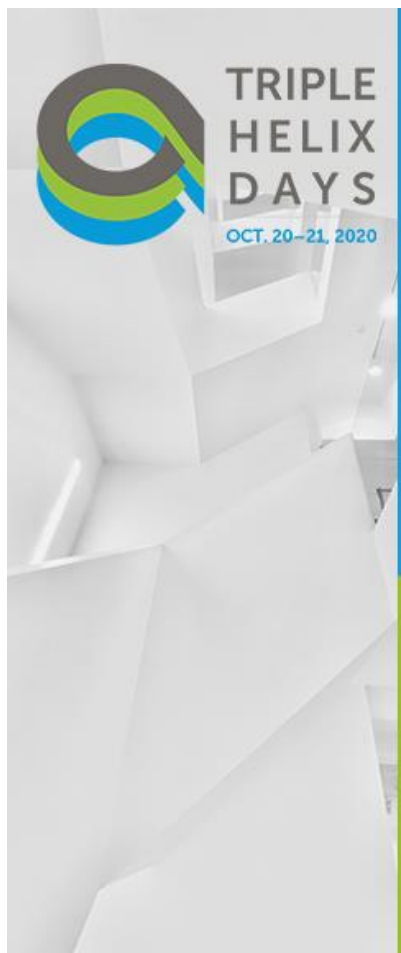




Strengthening
University-Industry
Partnerships



DHS Science and Technology, Research and Development, University-Industry Solicitations

October 21, 2020 11-11:45 AM EDT



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DHS SCIENCE & TECHNOLOGY



**Homeland
Security**

Science and Technology

Greg Wigton
Program Liaison
Office of Industry Partnerships
DHS Science and Technology

S&T MISSION

Enable effective, efficient and secure operations across all homeland security missions by applying scientific, engineering, analytic and innovative approaches to deliver timely solutions and support departmental acquisitions.



DHS S&T MISSION AND CAPABILITY SUPPORT

PROGRAM AREAS

- Air Security
- Baggage/Cargo/People Screening
- Biometrics & Identity Management
- Chem/Bio Detection, Preparation & Security
- Community and Infrastructure Resilience
- Cybersecurity and Information Analytics
- Detection Canine
- Explosives Threat Assessment
- First Responder Capability
- Forensics & Criminal Investigations
- Immigration Services
- Land Border Security
- Maritime Border Security
- Probabilistic Assessment of National Hazards Threats and Risks (PANTHR)
- Soft Target Crowded Places Security

Program areas are subject to change based on DHS priorities.

S&T RESEARCH AND DEVELOPMENT TECHNOLOGY CENTERS

Hazard Awareness & Characterization

Chemical, biological, explosives threat profiles

Social Sciences

Triggers for terrorism and extremist behavior, methods for countering human trafficking technology

Sensors and Platforms

Intelligent and connected sensors and systems

Biometrics and Identity

Applications for next-gen identity technologies

Modeling & Simulation

Augmented, virtual, immersive reality applications; advanced predictive modeling

Data Analytics

Applications for next-gen computing (blockchain, AI, machine learning, cloud computing, edge computing)

Interoperability & Compatibility

Next-gen communications and networks; next-gen electronics and position, navigation, and timing capabilities

INDUSTRY PARTNERSHIPS

INCENTIVIZING INNOVATION TO DELIVER HOMELAND SECURITY SOLUTIONS



Engaging Industry

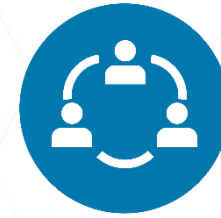


Incentivizing Innovation



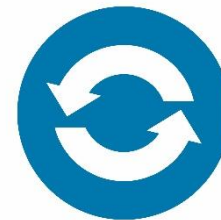
Delivering Solutions

DOING BUSINESS WITH DHS S&T



Incentivizing Innovation

Industry Partnerships provides unique business opportunities, contract mechanisms, and support to incentivize industry to develop innovative technologies for homeland security



Delivering Solutions

Industry Partnerships provides mechanisms and support for mature S&T-funded technologies to transfer to DHS end users and move them to the market

ENGAGING WITH INDUSTRY TO SOLVE HOMELAND SECURITY CHALLENGES



Long Range Broad Agency Announcement

Provides an open invitation for the innovation community to propose novel solutions for DHS needs.



Small Business Innovation Research Program

Helps small businesses develop and commercialize innovative solutions.



Prize Competitions

Use public crowd-sourcing to incentivize innovation.



In-Q-Tel

Sources venture-backed commercial tech for homeland security use.



BIRD HLS

Provides grants funded by DHS S&T & Israel MOPS to develop advanced technologies for the homeland security mission.



Silicon Valley Innovation Program

Engages the global start-up community to harness commercial R&D for government applications.

DELIVERING SOLUTIONS TO SOLVE HOMELAND SECURITY CHALLENGES



Technology Transfer and Commercialization

Coordinates intellectual property rights protection, licensing, and commercialization activities.



Cooperative Research and Development Agreements

Facilitate collaborative R&D between DHS and a non-federal partner to advance technology maturation.



Commercialization Accelerator Program

Helps move solutions from lab to market.



Partnership Intermediary Agreements

Enable DHS to join projects with an intermediary to accelerate tech transfer and commercialization.

CONNECT WITH S&T



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