

# DHS Small Business Innovation Research (SBIR) Programs Overview



## 2017 SBIR Road Tour

*Seeding America's Future Innovations™*

### SBIR-STTR MidWest Road Tour

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## Homeland Security Missions



- Prevent Terrorism and Enhance Security
- Secure and Manage Our Borders
- Enforce and Administer Our Immigration Laws
- Safeguard and Secure Cyberspace
- Strengthen National Preparedness and Resilience

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## DHS SBIR Supports.....

- Federal Emergency Management Agency (FEMA)
- Customs and Border Protection (CBP)
- U.S. Coast Guard (USCG)
- Transportation Security Administration (TSA)
- Immigration and Customs Enforcement (ICE)
- National Protection and Programs Directorate (NPPD)
- U.S. Secret Service (USSS)
- Domestic Nuclear Detection Office (DNDO)
- First Responders



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## DHS SBIR Program Specifics

- Two Directorates in DHS manage SBIR
  - Science & Technology (S&T) Directorate
  - Domestic Nuclear Detection Office (DNDO)
- FY2016 Budgets:
  - S&T Directorate's SBIR: \$14.1M
  - DNDO's SBIR: ~\$2.4M
- Topics determined by the government in response to component and HSE needs
  - Solicitation released in early December each year
  - 7-14 topics per year
- Phase I contracts: \$100,000 in S&T; \$150,000 in DNDO
- Phase II contracts \$750,000 in S&T; \$1,000,000 in DNDO

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## Recent Topics

### S&T

- Blockchain Applications for Homeland Security Missions
- Enhanced Agent Situational Awareness in Dismounted, Low Light/Adverse Conditions
- Do Not Spoof Services for Modern Telephony
- Identity Verification & Validation for Mobile Networks Authentication Enhancement
- Wearable Chemical Sensor Badge
- Over-the-air Authentication Technology for Messaging via Emergency Alerts
- Security Systems Video/Audio Interoperability
- Applicability of Blockchain Technology to Privacy Respecting Identity Management
- Malware Prediction for Situational Understanding and Preemptive Cyber Defense
- Autonomous Indoor Navigation and Tracking of First Responders
- Internet of Things (IoT) Low-Cost Flood Inundation Sensor
- Low-Cost, Real-Time Data Analytics for Underserved EMS Agencies

### S&T continued

- Real-Time Assessment of Resilience and Preparedness
- Using Social Media to Support Timely and Targeted Emergency Response Actions
- Blockchain Applications for Homeland Security Analytics
- Remote Identity Proofing Alternatives to Knowledge Based Authentication/Verification

### DNDO

- Mass Anomaly Passive Detector Module
- Stable Semiconductor Modules for Radiation Detecting Pagers
- Smart device Toolkit for Virtual Detection and Training
- Plastic-Crystal Composite-Based Scintillators
- Portable Linear Accelerator for Active Interrogation Systems
- Unattended Radiation Detection Systems
- Conduct a transformational research and development program
- Provide stewardship of USG Technical Nuclear Forensics Center planning, integration and development



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## DHS SBIR Points of Contact

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### DNDO

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### SBIR Portal Help Desk

Email: dhssbir@reisystems.com  
Phone: 703-480-7676



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#### To report DHS SBIR fraud, waste and abuse:

- Anonymous Hotline: 1-800-323-8603
- Fax: 202-254-4297
- Mail: DHS Office of Inspector General/Mail Stop 0305  
Attn: Office of Investigations - Hotline  
245 Murray Drive SW  
Washington, DC 20528-0305

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