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SBIR STTR America's Seed Fund

PNDC Homeland Security Symposium June 8, 2017

Leon Wolf



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with appreciation to John Pucci DHS SBIR Program Director Science and Technology Directorate





What are the SBIR/STTR Programs?

SBIR

Small Business Innovation Research STTR

Small Business Technology Transfer

\$2.8 billion federal program that funds development and commercialization of innovative technologies

Jearn more at www.sbir.gov

Participating Federal Agencies

- Department of Defense ←
- National Institutes of Health
- Department of Energy
- National Science Foundation
- NASA
- USDA
- DHS ←
- DOT, NOAA, NIST, Dept of Education and EPA





Two DHS SBIR Programs

Science & Technology Directorate (S&T)
Domestic Nuclear Detection Office (DNDO)



Science and Technology

S&T's Visionary Goals



SCREENING AT SPEED



TRUSTED CYBER FUTURE



ENABLE THE DECISION MAKER



RESPONDER OF THE FUTURE



RESILIENT COMMUNITIES:



Science and Technology

S&T's FY17 SBIR Topics



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



Blockchain Applications for Homeland Security Missions



Wearable Chemical Sensor Badge



Over-the-air Authentication Technology for Messaging via Emergency Alerts



Domestic Nuclear Detection Office (DNDO)

Mission

Prevent nuclear terrorism by continuously improving capabilities to deter, detect, respond to, and attribute attacks, in coordination with domestic and international partners.









Cost effective equipment

Enhanced wide area search

Monitoring along challenging GNDA pathways

Detection of special nuclear material

Predictive capability



DHS SBIR – A Three-Phase Program

DISCOVERY	Phase I: Scientific and Technical Feasibility/ Proof of Concept	 Funded with SBIR funds, 33% may be outsourced Not to exceed 6 months in duration Award sizes: \$100,000 for S&T Directorate's SBIR \$150,000 for DNDO's SBIR An additional \$5,000 per year for Technical Assistance Awardees given automatic access to Auto Harvest Foundation Participation in DHS/NSF I-Corps Program at \$50,000 (S&T only)
	Phase II: Full Research/R&D Prototype Demonstration	 Funded with SBIR funds, 50% may be outsourced Generally 24 months in duration Award sizes: \$750K for S&T Directorate's SBIR \$1,000,000 for DNDO's SBIR An additional \$5,000 per year for Technical Assistance Potential for cost match up to \$250,000 (1:2) Potential for additional \$200,000, 12 months, CRPP award (S&T only) Participation in DHS/NSF I-Corps Program at \$50,000 (S&T only)
	Phase III: Commercialization (non SBIR funds)	 Funded with private or non-SBIR government sources For work that derives from, furthers the Phase I/Phase II effort, or brings to conclusion No dollar or time limits Size standards do not apply Can be a direct award; competition determined in Phase I

DHS Backup



DNDO's Recent SBIR Topics

	Торіс	Grand Challenge
15.1	Mass Anomaly Passive Detector Module	Shielded SNM
FY 1	Stable Semiconductor Modules for Radiation Detecting Pagers	Cost Effective
FY 16.1	Smart device Toolkit for Virtual Detection and Training	Cost Effective
	Plastic-Crystal Composite-Based Scintillators	Cost Effective
	Portable Linear Accelerator for Active Interrogation Systems	Shielded SNM
FҮ 17.1	Unattended Radiation Detection Systems	Wide Area Search

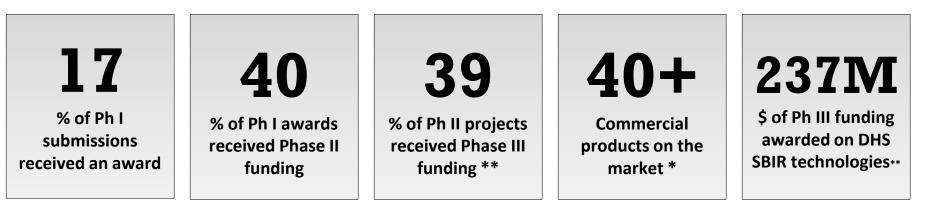
Program Successes:

- Alternative technologies for Helium-3 in radiation portal monitors
- A multi-energy x-ray generator system for cargo inspection
- A training program for field operators that uses computer simulations



DHS SBIR Program Statistics

- 3,737 Phase I proposals submitted
 - Submissions from over 2,100 small businesses
 - 66% of submissions from small businesses with 24 or fewer employees
 - Small businesses in 44 states and D.C. received Phase I funding
 - 54% of Phase I awards made to small businesses with 24 or fewer employees
 - 16% of Phase I awards made to women-owned small businesses
- DHS SBIR technologies have resulted in 92 patents applications filed (47 projects) *
 - 28 patents issued; 23 patents pending





- Homeland Security
- * Information collected from a 2013 study of completed SBIR Phase II projects, updated in 2015

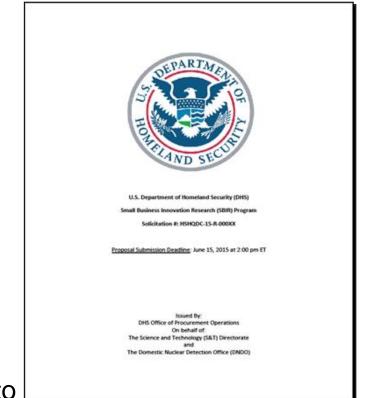
** Includes DHS internal R&D funds; funding from other government agencies; product sales, licenses, and private investments

Keys to a Successful Proposal

- Be responsive to the topic
 - You can submit to any/all topics
 - Understand the mission and topic
- Write effectively
 - Be technical, but don't overuse jargon
- Set credible objectives
 - Set quantifiable performance metrics and prove they're achievable
- Collaborate with others
 - Leverage your capabilities with others to build a stronger proposal
- Develop a commercialization plan
 - Don't rely on market size statistics



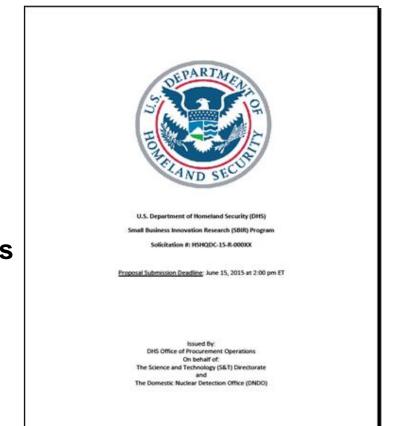
Homeland Security



Feedback can be available upon request!

DHS SBIR Solicitation Information

- Two DHS organizations; one joint solicitation since FY14
 - Multiple topics relevant to each organization
- Solicitation issued 1x each fiscal year in December
- Solicitations announced in FedBizOpps
- Unsolicited proposals are not accepted
- Proposals submitted via a secure on-line portal at https://sbir2.st.dhs.gov
- Federal employee review panels; source selection authority





Security

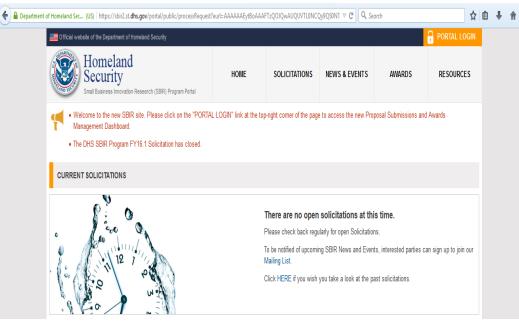
You may submit a proposal(s) in response to any/all of the solicitation topics.

DHS Solicitation Can Be Found Two Ways

 Searching FedBizOpps portal at <u>https://www.fbo.gov</u>



 Following the SBIR Solicitations link on the DHS SBIR Program portal at: <u>https://sbir2.st.dhs.gov</u>





DHS SBIR FY18 Solicitation Schedule



U.S. Department of Homeland Security (DHS) Small Business Innovation Research (SBIR) Program Solicitation #: HSHQDC-15-R-000XX

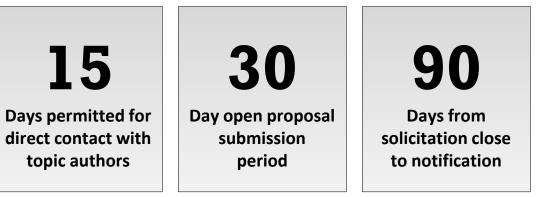
Proposal Submission Deadline: June 15, 2015 at 2:00 pm ET

Issued By: DHS Office of Procurement Operations On behalf of: The Science and Technology (S&T) Directorate and The Domestic Nuclear Detection Office (DNDO)

Homeland

Security

Solicitation Schedule			
Event	Date		
Pre-solicitation issued:	Early December 2017		
Direct contact with Topic POC permitted:	Early December 2017 – Mid-December 2017		
Solicitation released:	Mid-December 2017		
Phase I proposals submission:	Mid December 2017 – Late January 2018		
Last day to submit questions:	Early January 2018 (2:00 p.m. ET deadline)		
Last day Q&A Posted on FedBizOpps:	~ Mid January 2018		
Deadline for receipt of proposals:	Late January 2018 (2:00 p.m. ET deadline)		



Key Web Sites

Program Website:
> https://sbir2.st.dhs.gov

DHS Agency Website: > www.dhs.gov

Doing Business with DHS: ><u>http://www.dhs.gov/how-do-i/do-business-dhs</u>

DHS Small Business Assistance: > <u>http://www.dhs.gov/small-business-assistance</u>



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

DHS SBIR Points of Contact

S&T Directorate

John Pucci SBIR Program Director john.pucci@hq.dhs.gov 202-254-8764

Dusty Lang SBIR Management and Program Analyst dusty.lang@hq.dhs.gov 202-254-6837

Peter Nielsen SBIR Program Analyst peter.nielsen@hq.dhs.gov 202-254-5658

S&T Program email stsbir.program@hq.dhs.gov



DNDO

Marissa Giles SBIR Program Manager marissa.giles@hq.dhs.gov 202-254-7615

Dustin LeClair SBIR Program/Technical Analyst dustin.leclair@associates.hq.dhs.gov 202-254-7745

DNDO SBIR Program email dndosbir@hq.dhs.gov

SBIR Portal Help Desk

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







Support to qualifying startups planning SBIR/STTR proposals:

- SBIR/STTR grant writing & training
- Funding opportunity searches and solicitation match
- Consulting on eligibility, guidelines & requirements

Learn more at <u>www.oregonbest.org/sbirsttr/</u>

NEW! Training workshop webinar for proposal prep starts 6/14

BUSINESS OREGON





What we Do

- Business Development
- Community Development and Infrastructure
- Innovation and Entrepreneurship
- Arts and Culture



Business Oregon's SBIR Program

- Proposed a \$1M program for Jul. 1, 2017 Jun. 30, 2019
- Phase 0/00 grants
 - Up to \$5k per company (1 per 12 months)
 - \$100k budgeted for each year
 - Rolling call for applications but must be working on an open solicitation

Matching grants

busines

- Most funds likely to be focused on Phase I awardees
- Previously did grants up to \$50k for Phase I & \$100k for Phase II
- Likely 1 call for applications per year
- www.oregon4biz.com/sbir
- Mark Brady 503.689.5638 / <u>mark.brady@oregon.gov</u>

Resources for Washington Companies





Small Business Voucher Technical Assistance Program



Department of Commerce Innovation is in our nature.



Thank you!

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For more SBIR/STTR info: www.oregonbest.org/sbirsttr/ www.sbir.gov/tutorials

