

INNOVATION PROGRAMS & TOOLS

..... WAYS TO WORK WITH US TO
ADVANCE TECHNOLOGY SOLUTIONS

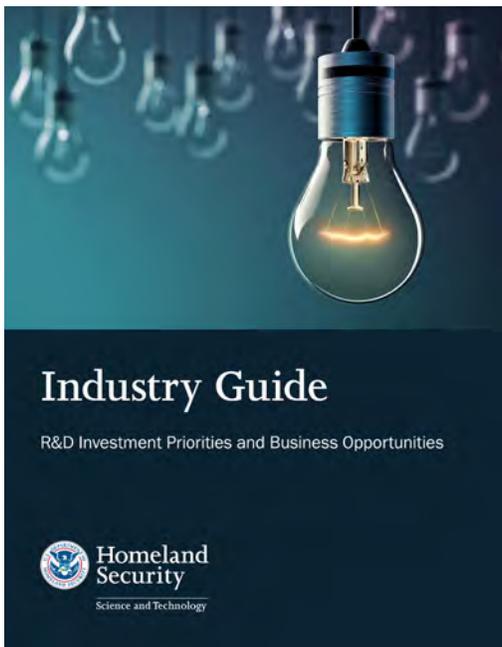


**Homeland
Security**

Science and Technology

WORKING WITH THE PRIVATE SECTOR TO ADVANCE HOMELAND SECURITY SOLUTIONS

The Science and Technology Directorate (S&T) relies on our private sector partners to identify and develop innovative technologies for homeland security. We are also working to transition federal research and development (R&D) technology products to the commercial market for use by homeland security operators.



To make it easier to partner with us, S&T developed an **Industry Guide** that outlines DHS R&D priorities and lists technology areas where S&T is investing. The Guide also identifies various tools we have in place to fund innovation and work with private sector partners.

You can find the Industry Guide on our website at:

www.dhs.gov/publication/working-industry-find-technology-solutions

S&T INNOVATION DEVELOPMENT TOOLS

As a companion to S&T's Industry Guide, this booklet provides more detail on ways to work with us to innovate and advance homeland security solutions.

S&T has a number of tools for working with many different kinds of private sector entities. For each tool, this booklet outlines the process, eligibility, timeline, and how to apply. We also identify the stage(s) of technology development we seek for each tool.

Whether you have a great idea or concept, a prototype, a product nearing the market, or a fully commercialized capability that can be adapted for homeland security use, we want to hear from you!

S&T INDUSTRY LIAISON

S&T has a dedicated **Industry Liaison** who is focused on directing our private sector partners to the appropriate point of contact:



Email us at

SandT.Innovation@hq.dhs.gov



Or visit our website at

**[www.dhs.gov/science-and-technology/
business-opportunities](http://www.dhs.gov/science-and-technology/business-opportunities)**

WHO IS ELIGIBLE



ACADEMIA



STARTUPS



SMALL BUSINESSES



MEDIUM TO LARGE BUSINESSES



PRIVATE CITIZENS



NATIONAL LABS, RECOGNIZED
R&D ORGANIZATIONS

INNOVATION TOOLS



SBIR



LRBAA (p.6)



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SVIP



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SBIR



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SVIP

SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM

The **SBIR Program** spurs small business ideation, prototype development, and commercialization of innovative technologies for homeland security.



FOR MORE INFORMATION

And to review SBIR topics, visit:
<https://sbir2.st.dhs.gov/portal/SBIR>

DHS RELEASES SOLICITATION:

<http://sbir2.st.dhs.gov>
and www.beta.SAM.gov

PHASE I

6 Month Proof of Concept
Submit Proposal
DHS Evaluates & Selects Proposals
Phase I Awards

PHASE II

24 Month Prototype Development Effort
Submit Proposal
DHS Evaluates & Selects Proposals
Phase II Awards

COMMERCIALIZATION ASSISTANCE

PHASE III



WHO IS ELIGIBLE

Small Businesses must:

- Have no more than 500 employees
- Be located and operate within the U.S.
- Be owned and controlled (more than 50%) by U.S. citizens or permanent residents



WHAT WE ARE SEEKING

- Proof of Concept (Phase 1, \$150,000, six months)
- Full R&D/Prototype Demonstration (Phase 2, \$750,000, 24 months)
- Commercial Product (Phase 3, no SBIR funding assistance)



WHEN SUBMISSIONS ARE DUE

- Solicitations posted annually (historically in December)
- Phase 1 awardees may submit Phase 2 proposals near the end of the Phase 1 (DHS sends notifications and submission instructions to all Phase 2 awardees)



HOW TO APPLY

1. Find an opportunity at SAM.gov: www.beta.SAM.gov
2. Locate the opportunity on DHS SBIR portal at <https://sbir2.st.dhs.gov/portal/SBIR>:
 - Go to SOLICITATIONS > CURRENT SOLICITATIONS
 - Select the solicitation identified at FedBizOpps
 - Make note of the specific solicitation details including:
 - Registering with System Award Management (SAM) at www.sam.gov
 - Registering with the Small Business Administration at www.sba.gov
3. Register on the DHS SBIR Portal using “PORTAL LOGIN”
4. Submit proposal in accordance with the solicitation guidance

LONG-RANGE BROAD AGENCY ANNOUNCEMENT

The **LRBAA** is a standing, open invitation to the scientific and technical communities to propose novel ideas that address the high-priority needs of DHS Components.



FOR MORE INFORMATION

And to review LRBAA topics, visit:
<https://baa2.st.dhs.gov/portal/BAA>

DHS POSTS TOPICS:

<http://baa2.st.dhs.gov/portal/BAA/>

SUBMIT IDEAS

Short Abstract, Quad Chart, &
Optional Demonstration Demo

VIRTUAL PITCH

Idea Explored in More Detail
(Proposal - Phase 1)

WRITTEN PROPOSAL

(Proposal - Phase 2)

DHS Peer Review Panel Evaluates
Written Proposals



DHS AWARDS CONTRACT



WHO IS ELIGIBLE

Domestic or international:

- Businesses of any size
- Academia and Universities
- National laboratories and recognized R&D organizations



WHAT WE ARE SEEKING

Ideas for:

- Basic and Applied Research (funded for one to three years)
- Unique Prototypes (funded up to two years, including base & option)
- Mature Technology Improvements & Assessments (funded for less than one year)



WHEN SUBMISSIONS ARE DUE

- You may submit ideas against open topics at any time
- Topics are updated quarterly



HOW TO APPLY

Access the DHS BAA Submissions Portal at <https://baa2.st.dhs.gov/portal/BAA>:

1. Register your company using the “PORTAL LOGIN”
2. Submit Industry Engagement material (abstract, quad chart, optional video link)
3. Click SUBMIT to send your materials for assignment to a Program Manager
4. Receive an email confirmation of successful submission.

PRIZE COMPETITIONS AND CHALLENGES

DHS Prize competitions incentivize innovation to address homeland security challenges through public crowd-sourcing.



FOR MORE INFORMATION

Visit www.challenge.gov





WHO IS ELIGIBLE

Open to all innovators:

- Companies of all sizes
- Entrepreneurs and start-ups
- Citizen inventors
- University students
- Communities

Prize participants must:

- Be U.S. citizens/legal permanent residents (or an entity incorporated in the U.S.)
- Not be a federal entity or federal employee acting within the scope of one's duties



WHAT WE ARE SEEKING

- Novel ideas and concepts
- Working prototypes



WHEN SUBMISSIONS ARE DUE

Submission due dates appear on Challenge.gov and the official competition website.



HOW TO APPLY

Public participation is simple:

1. Visit www.challenge.gov
2. Search or sort the topics that pique your curiosity.
3. Click on the challenge topic and visit the official competition website:
 - Gain insight into the challenge and submission requirements
 - Review the judging criteria
 - Register yourself and/or team
4. Submit your idea, concept or prototype!

SILICON VALLEY INNOVATION PROGRAM

Silicon Valley Innovation Program (SVIP) reaches out to innovation communities across the nation and the world to harness commercial R&D for government applications, co-invest in, and accelerate the transition of technology to the commercial market.



FOR MORE INFORMATION

Visit www.dhs.gov/science-and-technology/svip

Email DHS-Silicon-Valley@hq.dhs.gov to sign up for email alerts of new topics.

Innovation Other Transaction Solicitation Topics Posted to www.beta.SAM.gov

Submit Applications to DHS-Silicon-Valley@hq.dhs.gov

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If selected, applicants:
Present Verbal Pitch
Register in www.sam.gov

S&T Selects Proposals for Funding



OTHER TRANSACTION AGREEMENT

(average time to award ~45 days)



WHO IS ELIGIBLE

Applicants must:

- Have fewer than 200 employees or full-time equivalents
- Not have been a party to any Federal Acquisition Regulation-based contracts and/or federally awarded grants totaling more than \$1M in the past 12 months



WHAT WE ARE SEEKING

SVIP provides up to \$800K over four phases of funding at \$50-\$200K each, with each phase lasting three to six months:

- **Phase 1:** Demo proof of concept
- **Phase 2:** Demo pilot-ready prototype
- **Phase 3:** Pilot-test prototype in operation
- **Phase 4:** Test in various operational scenarios



WHEN SUBMISSIONS ARE DUE

Due dates for proposals on individual OTS topics are provided in the topic announcement on SAM.gov.



HOW TO APPLY

1. Review open topic calls to see if you qualify
2. Download application and email it to: **DHS-Silicon-Valley@hq.dhs.gov**

CONNECT WITH US



scitech.dhs.gov



S&T Industry Liaison:

SandT.Innovation@hq.dhs.gov



[dhsscitech](https://www.instagram.com/dhsscitech)

