

Leveraging America's Seed Fund

Small Business Innovation Research (SBIR)

Small Business Technology Transfer (STTR)

Why We Work on America's Seed Fund

















www.sbir.gov/news/success-stories



Goals

- → Meet federal research and development needs
- → Increase private-sector commercialization of innovation derived from federal research and development funding
- → Stimulate technological innovation
- → Foster and encourage participation in innovation and entrepreneurship by women and socially/economically disadvantaged individuals
- → Foster technology transfer through cooperative R&D between small businesses and research institutions (STTR)

Small Business Innovation Research (SBIR)

→ 3.2% of the extramural research budget for agencies with a budget greater than \$100 M per year

~\$3.2 billion minimum spend each year

Small Business Technology Transfer (STTR)

→ 0.45% of the extramural research budget for agencies with a budget greater than \$1B per year

~\$450 million minimum spend each year

Over 5,000 new awards every year

What does an SBIR/STTR firm look like?

- Company must be for profit, U.S. owned/operated, and under 500 people
- Work must be done in the U.S.
- Focus is on performing R&D Not purchasing equipment, commercializing a technology that has already been developed, or one that has very low risk and only needs capital

Three Phase Process

Phase I

Concept Development 6 months – 1 year ~ \$50,000 – 250,000

Phase II

Prototype Development 24 months ~ \$500,000 – 1.5M

Phase III

Commercialization
Not SBIR funding



Differences Between SBIR and STTR

	SBIR	STTR
Partnering Requirement	Permits partnering	Requires a non-profit research institution partner
Principal Investigator	Primary employment (>50%) must be with the small business	PI may be employed by either the research institution partner or small business (check solicitation)
Work Requirement	May subcontract up to: 33% (Phase I) 50% (Phase II)	Minimum: 40% Small Business 30% Research Institution Partner
Program Size	3.2% (FY19 - \$3.28B)	0.45% (FY19 - \$453M)
Majority VC ownership	Allowed by some agencies	Not allowed
Participating Agencies	11 agencies (extramural R&D budget > \$100M)	5 agencies (extramural R&D budget > \$1B)

The small business is ALWAYS the applicant and awardee!

SBIR & STTR Participating Agencies

Department of Agriculture (USDA)

Department of Commerce (DoC)
NIST, NOAA

Department of Defense (DoD)

Department of Education (ED)

Department of Energy (DOE)

Dept of Health and Human Services (HHS) NIH, FDA, CDC, ACL

Department of Homeland Security (DHS)

Department of Transportation (DOT)

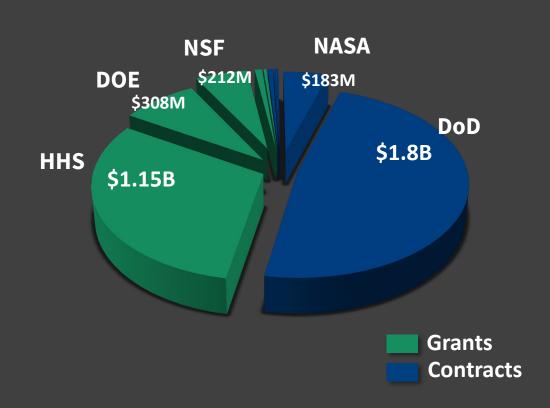
Environmental Protection Agency (EPA) National Aeronautics and Space Administration (NASA)

National Science Foundation (NSF)

FY2019 SBIR/STTR Budgets by Agency

Agencies	Budget
Department of Defense (DoD)*	\$1.80 B
Department of Health and Human Services (HHS)**, including the National Institutes of Health (NIH)	\$1.15 B
Department of Energy (DOE), including Advanced Research Projects Agency – Energy (ARPA-E)	\$308 M
National Science Foundation (NSF)	\$212 M
National Aeronautics and Space Administration (NASA)	\$183 M
U.S. Department of Agriculture (USDA)	\$30 M
Department of Homeland Security (DHS)	\$17 M
Department of Commerce: National Oceanic and Atmospheric Administration (NOAA)	\$9.5 M
Department of Education (ED)	\$8.4 M
Department of Transportation (DOT)	\$5.2 M
Department of Commerce: National Institute of Standards and Technology (NIST)	\$3.9 M
Environmental Protection Agency (EPA)*	\$3.6 M

^{*} Budgeted Amount; other Agencies Obligated Amount



SBIR: \$3.28 Billion

STTR: \$453 Million



^{**} Provides grants and contracts

Contracting Agencies	Granting Agencies	
 Agency establishes plans, protocols, requirements 	 Principal Investigator initiates approach 	
Highly focused topics	Less-specified topics	
 Procurement mechanism 	 Assistance mechanism 	
 More fiscal requirements 	More flexibility	
Invoiced on progress	 Allows upfront payment 	
 Binding agreement between a buyer and seller for goods/services 	 Funds support a public purpose, best efforts in research 	
DoD, DHS, NASA, EPA, DOT, DoED	NSF, DoE, USDA, NIST, NOAA	
Contracting and Granting: HHS (mostly grants)		

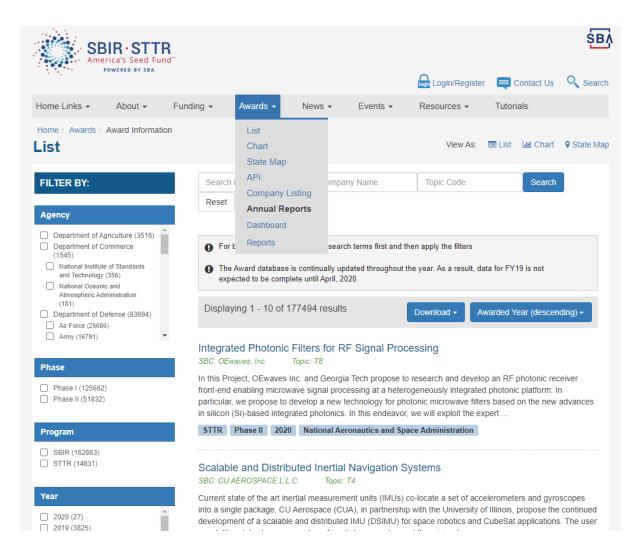


SBA's Role in the SBIR/STTR Programs

- Provide oversight/guidance on SBIR/STTR programs
 - Survey and monitor agencies and report to Congress annually
 - Develop and provide policy and program guidance
 - Responsible for all data to include gathering, analysis and reporting, and manage SBIR.gov data platform
- Lead Federal-wide outreach, training, and building of the support ecosystem
 - Increase participation in SBIR/STTR, done through extensive outreach and training to both private/public support network and tech entrepreneur
 - Manage FAST (Federal And State Technology) Partnerships Program and Growth Accelerator Fund Competition
 - Build a strong network to include SBA Field Offices, R&D agencies, state economic development offices, universities, and resource partners



SBIR/STTR Data via www.sbir.gov



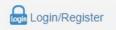
Find Information on:

- Award Details By State, Firm, Technology Area, Agency, etc. – List
- Agency Activity & Funding Levels –
 Chart
- Geography State Map
- Program Trends Annual Reports
 Dashboard













Awards -

Events •

News -

Tutorials .

Resources •

FIND FUNDING

SUCCESS STORIES

GET THE 411

FAQs

General Questions

Eligibility Requirements

Size Rule

Company Registry

Performance Benchmarks

Data Rights

VC Participation

Miscellaneous

Other SBIR/STTR Questions

Terms & Abbreviations

Agency FAQ Links

For Entrepreneurs

Quad Chart Template

SBIR-STTR Outreach One Pager

External Resources

Tools

API

Doing Business in USA

SBIR Economic Impact

SBIR/STTR Conference Presentations



- FAQs
- SBIR/STTR Conference Presentations

Resources Tab:

 SBIR Economic Impact studies



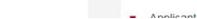
Learn About



I'm a(an)...



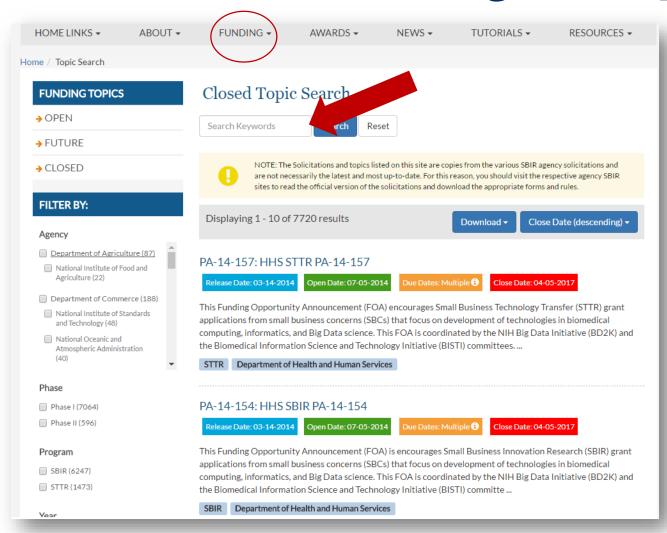
I Want to...





Ovonziow

Where to Begin? - Topic Searches



Keyword searches –
 Learn which agencies
 fund different
 technology areas!

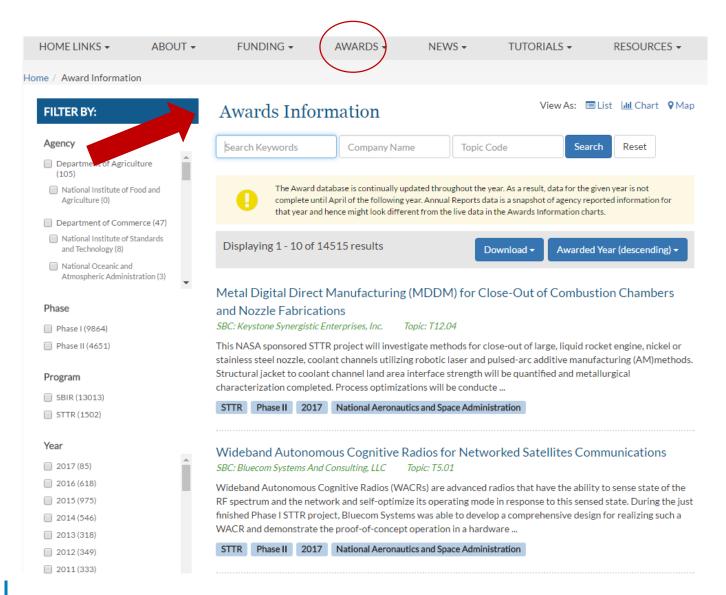
www.sbir.gov/sbirsearch/topic/past



Award Searches

Keyword searches

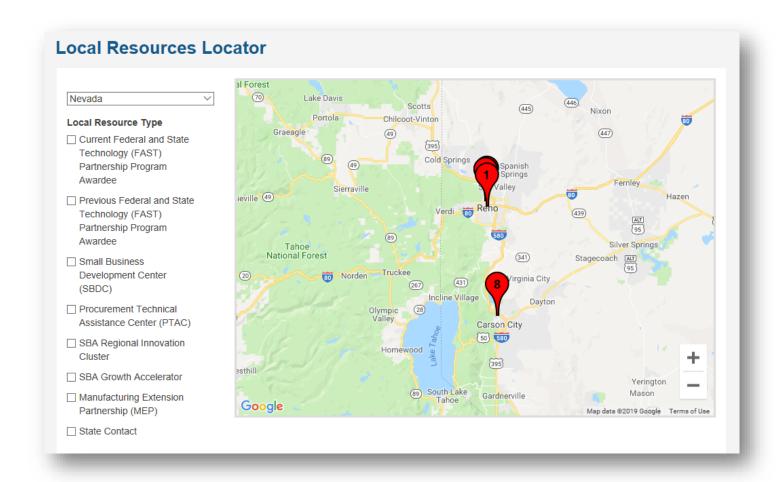
- → Identify successful firms
- → Identify agency investments in technology areas



www.sbir.gov/sbirsearch/award/all



Connecting the Innovation Ecosystem



SBA works with a number of local partners to counsel, mentor, and train small businesses in the innovation ecosystem.



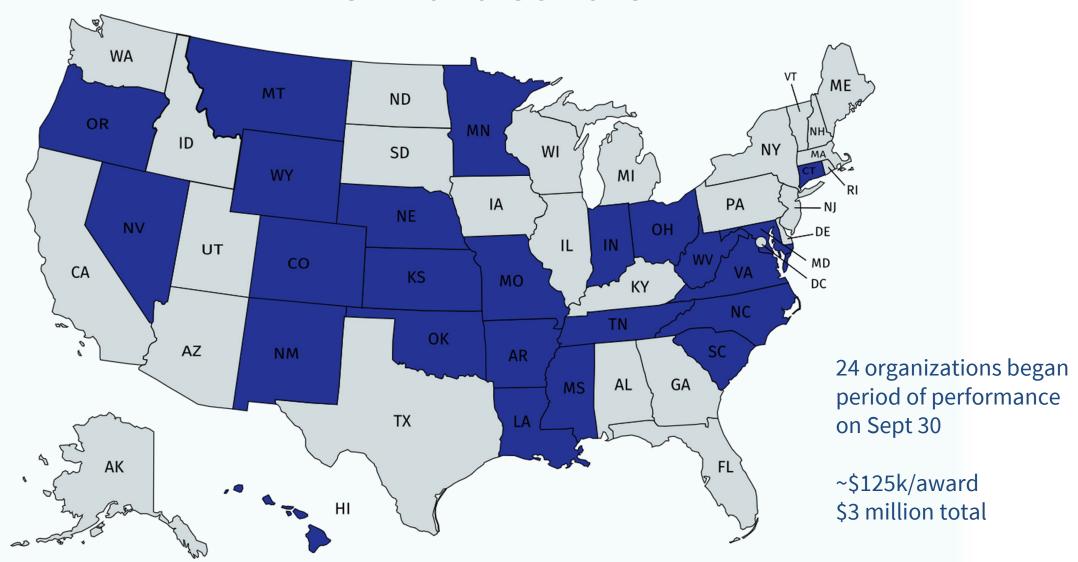


FAST (Federal And State Technology) Partnership Program

- Provides funds for organizations to do outreach, training, and mentoring for potential SBIR/STTR applicants and awardees
- → Eligible entities include universities, state economic development organizations, regional partnerships, accelerators, and more

www.sbir.gov/about-fast

FAST 2020 Cohort



SBA Growth Accelerator Fund Competition (GAFC)

The Competition awards infuse accelerators and incubators with additional resource capital to provide:

- (1) awareness and education of the SBIR and STTR programs
- (2) focused assistance to high tech entrepreneurs

Targeted Outreach and Support

- Underserved States
- Women
- Socially/Economic Disadvantaged
- Opportunity Zones

Focused Assistance

- Mentoring
- Training
- Proposal Writing
- Networking

www.sbir.gov/accelerators

FY19 GAFC Winners



Full List of 60 Winners on SBIR.GOV





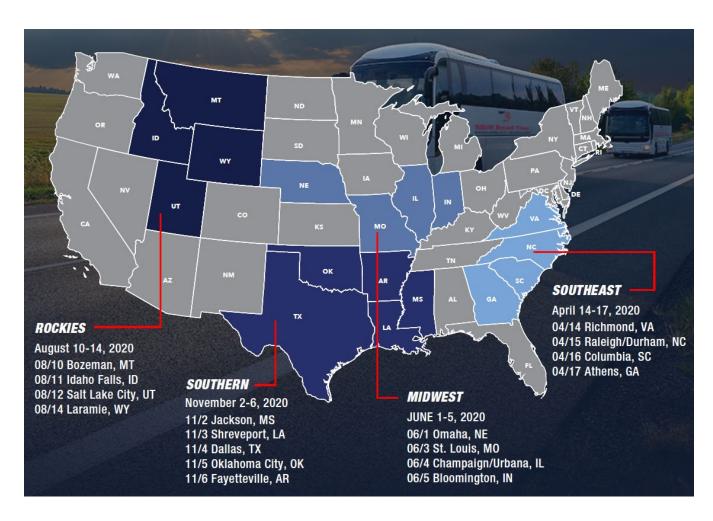
SBIR Support Organizations Monthly Call

Mix of entities including FAST, Small Business Development Centers, Procurement Technical Assistance Centers, universities, accelerators, incubators, women's business centers, state economic development offices, and more.

Facilitated by SBA, it features relevant information, highlights updates from agencies, showcases best practices from partners, and allows partners to give feedback on what's taking place around the country.



2020 SBIR Road Tour



www.sbirroadtour.com

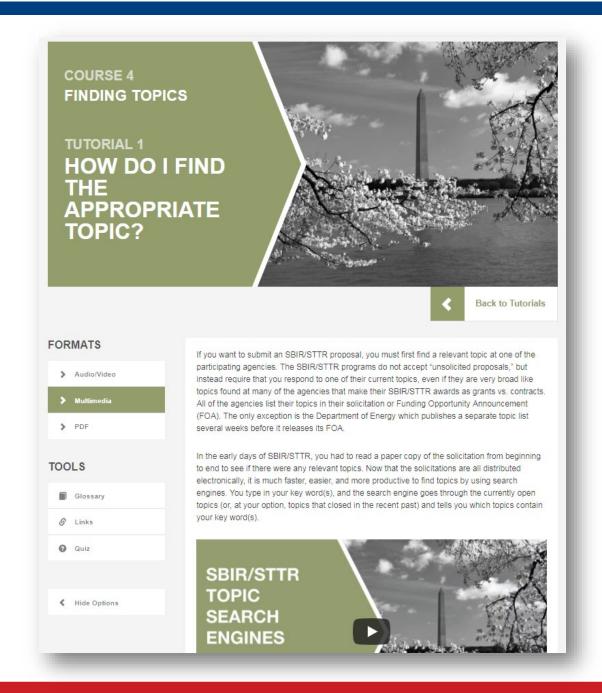




Online Tutorials

- → 55 Courses including:
 - → Agency overviews
 - → Program basics
 - → Data rights
 - → IP protection
 - \rightarrow PTACs

www.sbir.gov/tutorials





SBIR Train the Trainer



Course 1: Helping Potential Applicants

Course 2: Assisting First Time Awardees

Target Audience:

- \rightarrow SBDCs
- → Accelerators
- → SBA District Offices
- → SBA Partners

www.dawnbreaker.com/ttt/



Stay In Touch

technology@sba.gov



www.sbir.gov

