



Jennifer Thabet, Program Director

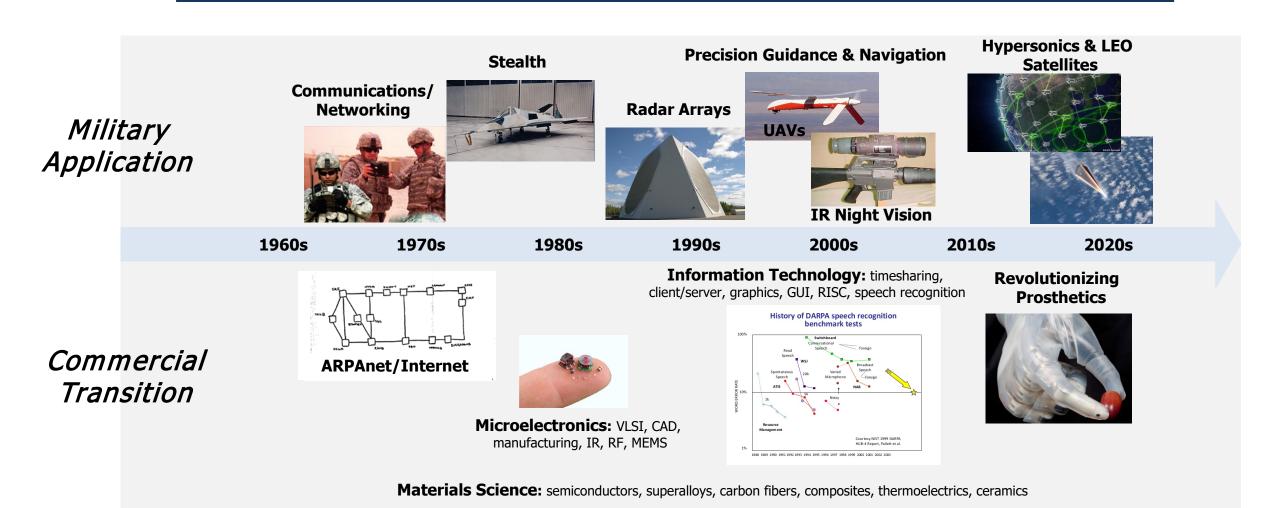
Small Business Support Team 703-526-4170 | sbir@darpa.mil http://www.darpa.mil/work-with-us/for-small-businesses



DARPA's Mission



Breakthrough Technologies and Capabilities for National Security



DARPA's role: Pivotal early investments that change what's possible



DARPA Small Business Activities in FY21 and FY22

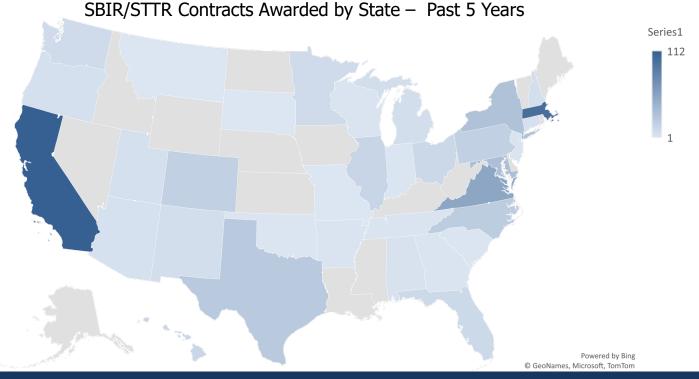


Small Business Activity: "By The Numbers" (\$ in millions)

Fiscal Year	Total Obligations	Total Small Business Dollars	DARPA Small Business Goaling Report %*	Total SBIR/STTR	SBIR/STTR Role in Overall Engagement w/ SB (As a % of Total SB Dollars)*
FY21	\$2,203.6	\$598	27%	\$111.7	19%
FY22	\$2,262.4	\$650	29%	\$153	24%

*the percentages/totals are accurate as of 31 Oct 22

- The SBIR/STTR program is funded through an allocation from extramural RDT&E funding realigned to a SBIR & STTR program element for execution.
- The Federal Procurement Data System (FPDS) does not capture business size standards for non-Federal Acquisition Regulation (FAR) based actions. Therefore, Other Transactions (OTs) and grants/cooperative agreements are not included in these figures.



Diversifying outreach to better align with small businesses focused on innovative technology breakthrough areas aligned with DARPA Tech plans and needs



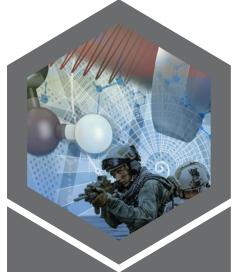
DARPA Technical Offices





Biological Technologies Office

- Threat detection and characterization
- Rapid, scalable protection and countermeasures
- Warfighter overmatch
- Non-traditional platforms and capabilities



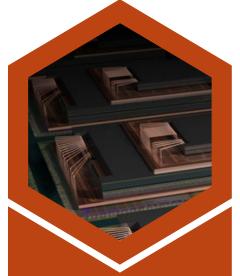
Defense Sciences Office

- Novel materials and structures
- Sensing and measurement
- Computation and processing
- Operations enablement
- Collective intelligence
- Global Change



Information Innovation Office

- Proficient AI
- Advantage in cyber operations
- Confidence in the information domain
- Resilient, adaptable, and secure systems



Microsystems Technology Office

- Local processing
- Spectrum dominance
- Microsystems manufacture
- Disruptive microsystems



Strategic Technology Office

- Advanced sensing and effects
- Autonomous system of systems
- Command, control, and communications



Tactical Technology Office

- Tactical systems
- Platforms, systems, and technologies that enable new warfighting constructs
- Reimagination of missions across maritime, ground, air, and space domains



Characteristics of DARPA



\$3.8B Funding Agency

Revolutionary Change

High Risk Tolerance

Program Manager Centric

Just-In-Time Topic Development

SBIR Program

3.2% of all extramural RDT&E

FY23 - \$111.2M

STTR Program

.45% of all extramural RDT&E

FY23 - \$15.6M



Doing Business with DARPA



Programs

- Represent most of DARPA's funding opportunities
- Open to all capable sources
- Proposals solicited through specific program BAAs
- Often multi-year, multidisciplinary efforts
- Technology development to move from "possibility" to "capability"











- Compete on unique DARPA R&D problems
- Tend to include phases with culminating events where winners win monetary or other prizes
- May result in a prize with up to a \$10M fair market value















Seedlings, SBIR/STTR, Explorations

- Open to all capable sources
- Smaller, shorter projects
- From "dishelief" to "doubt"
- Inspire new program ideas

Seedlings

Submitted to each technical office

SBIR/STTR

darpa.mil/work-with-us/for-smallbusinesses/participate-sbir-sttr-program



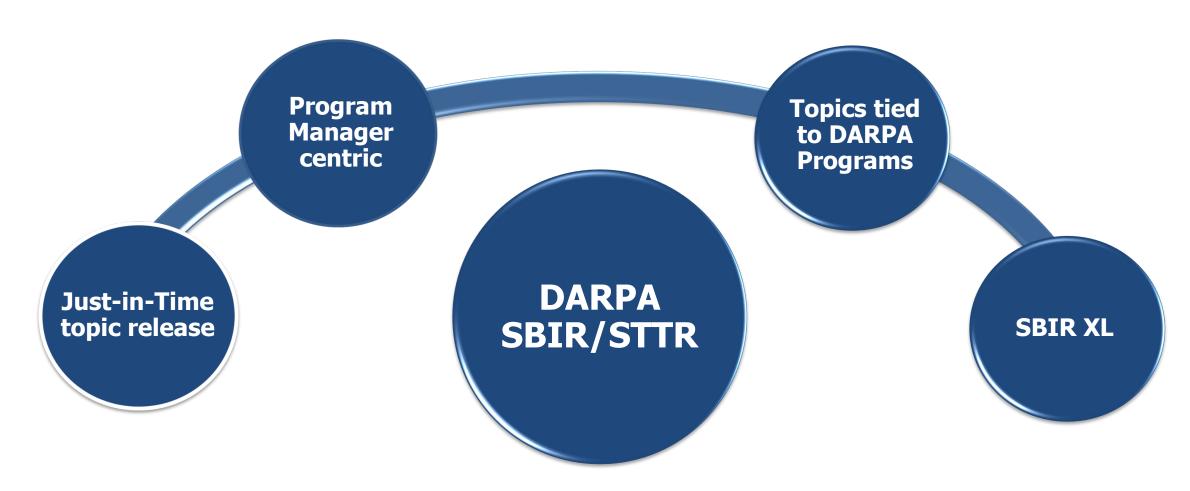






Uniqueness of the DARPA SBIR/STTR Program





DARPA's SBIR program is unique and offers greater flexibility with diverse transition opportunities



SBIR/STTR Program Structure



Phase	SBA SBIR/STTR Program	DARPA SBIR/STTR Program	
Phase I (optional)	\$295,924 cap (12 months) Feasibility Study	\$275,000 (~10 months) Feasibility Study	
Phase II*	\$1,972,828 cap (24-36 months) Adoptions/Co-funds Continued Research and Prototype	\$1,800,000 (24-36 months) Adoptions/Co-funds Continued Research and Prototype	
Phase II Enhancement	\$1:\$1 Match (up to 12 months)	\$1:\$1 Match (up to 12 months) Up to \$500K	
Phase III	No time limit No SBIR funds	No time limit No SBIR funds	

*Phase II values can exceed these numbers if funds are available and by using a simple waiver process.

Note: There is no cap on the amount of non-SBIR/STTR funding that can be applied to a SBIR/STTR.



SBIR/STTR – Program Utilization



Phase I

Traditional SBIR/STTR process which begins with a Phase I feasibility study

Sequential or Concurrent Phase II

A small business is eligible to receive two Phase II awards under the same topic

Enhancement

1:1 matching program up to \$500K of SBIR/STTR funding when non-SBIR/STTR funds have been committed

DARPA SBIR/STTR Funding Options

Direct to Phase II*

Allows the small business to skip Phase I and go directly to Phase II if they can demonstrate technical feasibility

Adoption

When a SBIR/STTR project is transferred from one DoD component or outside agency to another

Co-Fund

When a SBIR/STTR project is supplemented with SBIR/STTR funds from another DoD component or outside agency

SBIR XL Pilot*

Increases opportunities for DARPA-funded technology by reimagining SBIRs to transform ideas into successful small businesses that scale.

*SBIR only (no STTR)



DARPA SBIR XL Pilot



The SBIR XL Pilot aims to increase opportunities for DARPA funded technology by reimagining SBIRs to transform ideas into successful small businesses that scale.

SBIR XL Pilot

\$4M Award ceiling

Multiple awards per topic

Shortened proposal package which includes white paper & slide deck

Optional \$500K Enhancement Robust
Transition and
Commercialization
milestones



Transition and Commercialization Support Program (TCSP)



The TCSP works with small businesses to ensure that DARPA SBIR/STTR technology investments have impact within the DoD Acquisition Chain and U.S. Technology Community.





Transition Pathways





"SBIR/STTR Technology transition is the point at which the technology is determined mature enough to move from science and technology (S&T) and into an acquisition program or useful product/service ... the Transfer of an SBIR/STTR originated technology to a DoD or non-DoD activity including the private sector and other public sectors for conversion into new products and services is considered transition."

- OUSD (R&E) Technology Portfolio Manager, 16 July 2021



Success Story





SBIR·STTR

POWERED BY INNOVATORS
MOVING TECHNOLOGY FORWARD



DARPA Bridges – A New DARPA Initiative

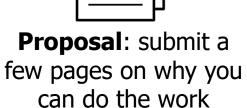


Solicitation and Selection Process





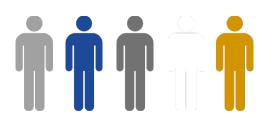






Selected: apply for clearance for you and your company

BRIDGES Effort and Output



Consortium: have regular meetings with DoD at classified level









Produce: concept white papers, proposals, and eventually contracts

Connect with us at BRIDGES@darpa.mil

https://www.darpa.mil/bridges



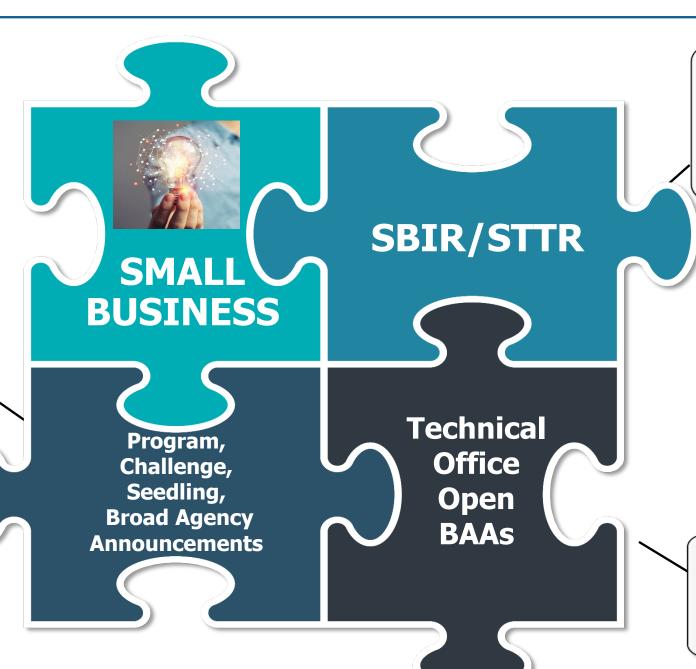
Industry / Proposers Day

Find Teammates/Partners

 Learn about the Program, Challenge, or Seedling

Ways to Get Started





- Topic Pre-Release; engage directly with a DARPA PM to discuss technical questions
- Outreach Events

- Understand Technical Office thrust areas
- Make a connection with a DARPA PM

Where to Start



Begin with visiting www.darpa.mil

Identify a DARPA Technical Office which matches your technology

Identify, (if you can) the right PM

Then, contact them (web page, email, visit)

PM Engagement

PMs are motivated by finding new and highly disruptive problems that will be the basis of new programs

Generally, you should discuss ideas that might lead to new programs, not present your approaches for ongoing programs

PMs will be thinking about the Heilmeier catechism...so you should, too

PMs are most receptive when you do their homework for them

Listen to them!

The Heilmeier Catechism

H1: What **problem** are you trying to solve?

H2: What are the **key technical challenges** that prevent that problem from being solved today?

H3: What is the **new approach** and how can it overcome these technical challenges?

H4: Why would solving that problem have a **large impact** (to the DoD)?

H5: What is the **program plan** to solve the problem?



DARPA SBIR/STTR Resources



Do Your Research - Become familiar with the challenges and opportunities of National Security



http://www.darpa.mil/about-us/about-darpa

DARPA Small Business Programs Office (SBPO)

http://www.darpa.mil/work-with-us/for-small-businesses

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www.darpa.mil





Back-Up



Funding Vehicles at DARPA



Kind	Typical Award (\$M)	Typical Duration (Months)	How	Purpose	Where to Begin
Program	0.5 to >50	48	BAA ¹	To solve a specific national security problem	
Seedling	0.2 to 1	6-12	"Office-wide" BAA ²	To provide key information to allow a PM to define a Program	Directly engage a PM interested in this technical area
Microsystem Exploration (μΕ)	1	18	PA3	To provide foundational work in an area of potential interest for a future Program	
SBIR/STTR	Phase 1: 0.275 Phase 2: 1-1.8	Phase 1: 10 Phase 2: 24-36	BAA ⁴	To stimulate technological innovation lead by small businesses and research institutions	teerimear area
Young Faculty Award ⁵	0.5	24	BAA ⁶	To develop the next generation of scientists and engineers and encourage focus on DoD and National Security issues	

¹ http://www.darpa.mil/work-with-us/opportunities

² http://www.darpa.mil/work-with-us/office-wide-broad-agency-announcements

³ https://beta.sam.gov/opp/765d3278dd11489c9ad662a414cc5400/view

⁴ https://www.darpa.mil/work-with-us/for-small-businesses/participate-sbir-sttr-program

⁵ Available to junior faculty positions in academia and equivalent positions at non-profit research institutions

⁶ https://www.darpa.mil/work-with-us/for-universities/young-faculty-award