Public Spend Forum

SBIR/STTR Report, Data and Dashboard

Powered by AI-MI^{TM} and PSF's Expert Analysis

In-depth emerging tech category by category trends, use cases, programs/buyers, technologies, companies and regions

Get access today!

About the SBIR/STTR Report, Dashboard and Data

The SBIR/STTR program, often referred to as "America's Seed Fund", provides almost $4B in funding for emerging technologies addressing our most pressing challenges.

This REPORT and accompanying DATASETS and DASHBOARD provide deep insights, by 13 emerging technology areas, on which use cases are being funded, who is investing in them, which companies are winning, and which regions are emerging as the new hotbeds of innovation.

Who is the report/dashboard/data for:

- **SBIR/STTR teams and policy makers**, to guide overall program design and investment decisions.

- **Government innovation managers** to understand use cases and technologies being funded and to improve collaboration among programs with similar needs.

- **Startups and emerging companies** to know how government is investing and identifying program offices

170+ Page Report

Interactive Dashboard

Enriched and Validated Data

Categories/Markets Covered:

- Advanced Communication Technology

- Advanced Energy and Clean Energy Technologies

- Advanced Materials & Related Manufacturing

- Biotechnology & Medical Technology

- Data Storage, Management and Advanced Computing Technologies

- Electronic Warfare Technologies

- Financial Technologies

- Microelectronics

- Natural and Anthropogenic Disaster Prevention or Mitigation

- Quantum Science & Technology

- Robotics, Automation, and Advanced Manufacturing

- Space Technology

- Trusted AI and Autonomy

The SBIR/STTR report and accompanying dashboard/data are focused on answering several critical questions:

How are investments aligned **by critical tech**?

What **use cases and needs** are tech investments focused on?

Which **agencies and programs are investing in which tech** areas and use cases?

Which **companies are winning** and what capabilities do they bring to the market?

Where are **geographic regions/clusters** emerging across the country?

What **types of investments are being commercialized** and lead to commercial capital?

Get Report, Data, Dashboard

Get access to continually refreshed report, interactive dashboard and full report, validated/enriched data.

170+ Page Report

Get license to full report including a category by category analysis section on 13 emerging tech categories

Interactive Dashboard

Get access to interactive visualization dashboard, with over 50 charts and analyses

Enriched and Validated Data

Get refreshed data, enriched through our AI algorithms, validated through our automations as well as by our analysts. Includes over 200 fields of data.

Report Table of Contents

170+page report includes an overall SBIR/STTR program analysis as well as a category by category section

SBIR/STTR Program Level Analysis (30+ pages)

- Executive Summary
- Introduction and Methodology
- Definition of Critical Technologies
  - Overall Growth Trend
    - Growth Trend by Phases
    - Growth Trend by Category
    - Growth Trend by Agency
  - Tech and Use Cases
  - Which Agencies are Investing?
  - Which Companies are Winning?
  - Capital Flow Analysis
  - Regional Analysis
    - Statewide Allocation of SBIR/STTR Awards
    - Awards Distribution by MSA(s)
      - SBIR Awards Distribution by MSA(s)
      - R&D Federal Funding by MSA(s)

Category by Category Analysis (140+ pages)

- Use Cases and Technologies
- Growth Trend
  - Growth Trend by Phases
  - Growth Trend by Agency
- Which Agencies/Programs are Investing?
- Which Companies are Winning?
  - Companies by Socio-Economic Designations
- Regional Analysis
  - Statewide Allocation of SBIR/STTR Awards
  - Awards Distribution by MSA(s)

USE CASES

Improve investment decisions and which technologies are making an impact by understanding how emerging technologies are being used to address critical use cases.

Verticals	Aerospace and Defense	Med-Tech and Healthcare	Manufacturing	Energy/ Utilities	IT & Tele – Communication	Space
Examples of Use-Cases	• Object Detection • Aircraft Parts Manufacturing/ Assembly • High-Speed Testing • Intelligence, Surveillance, Reconnaissance • Air Traffic Management • Mission & Strike Planning • Predictive Maintenance	• Drug/Vaccine Development • 3-D Printing of Medical Devices • Pain Management • Clinical Monitoring • Gene Therapy • Biomolecular Imaging • Image Processing • Prosthetics Design & Tissue Engineering • Remote Patient Monitoring	• Machine-Machine Communication • Industrial & Smart Factory Automation • Precision Microfabrication • Manufacturing System Health Monitoring • Materials Design and Processing Development • Warehouse Automation	• Energy Storage Optimization • Anomaly & Fault Detection and Diagnosis • Remote Area Electrification • Reduced Greenhouse Gas Emission • Energy Consumption Pattern Analysis • Building Energy Calibration	• Wireless Communication • Encrypted Military Communication • Real Time Detection and Classification • Spectrum Measurement and Analysis • Multi-Domain Network Connectivity • Low Latency Network Capacity	• Space Situation Awareness • Rendezvous & Proximity Operations • Space Debris Mitigation & Tracking • Satellite Communication • On-Orbit Servicing • In-Space Manufacturing
Examples of Technologies Being Tested	• AI & Machine Learning • Embedded Cyber-Systems • Threat Detection Sensors • Immersive Technologies • RADAR/LIDAR/ SONAR • Robotics and Autonomous Systems	• Wearable Technology • Biosensors • Deep Learning & Computer Vision • Digital Health Solutions • Monoclonal Antibodies • Genetic Markers • Additive Manufacturing • Nanotechnology	• 3-D Printing • Robotics and Automation • Photolithography • Inkjet Printing • Advanced Manufacturing Software • Internet of Things • Blockchain, RFID, & Advanced Analytics • Augmented & Virtual Reality	• Energy Storage Systems • Smart Grid & Grid Modernization • Energy Efficiency Management System • Decentralized Energy Generation & Storage Technologies • Renewable Energy Technologies	• Human Machine Interfaces • Software Defined Networking • DevOps and Continuous Integration/Cont. Deployment • 5G/6G Cellular Technology • Natural Language Processing	• Antennas, Transmitters, and Signal Processing Technologies • Quantum Computing • Navigation & Control System • Advanced Manufacturing Technologies • Data Processing & Advanced Analytics

GOVERNMENT PROGRAMS

Identify potential customers. Identify program offices investing in similar use cases and technologies. Improve your ability to collaborate with other programs.

EXAMPLE OFFICES: DEFENSE AGENCIES

Department of the Army $941M	Department of the Navy $1,823M	Department of the Air Force $3,315M	DARPA $581M	Other Defense Offices $1,507M
• Combat Capabilities Development Command Aviation & Missile Center • U.S. Army Acquisition Support Center • Army Research Laboratory	• Naval Air Warfare Center Aircraft Division • Naval Air Systems Command • Naval Information Warfare Center	• AFRL Materials and Manufacturing Directorate • Air Force Civil Engineer Center-Readiness Lab • Air Force Research Laboratory Small Business Office	• Microsystems Technology Office • Biological Technologies Office • Information Innovation Office	• US Special Operations Command • Washington Headquarters Services • Space Development Agency

EXAMPLE OFFICES: OTHER CIVILIAN AGENCIES

National Aeronautics & Space Administration $913M	Department of Homeland Security $87M	Department of Health and Human Services $4,960M	Department of Transportation $53M	Environmental Protection Agency $26M
• Glenn Research Center • Shared Services Center • Marshall Space Flight Center	• Domestic Nuclear Detection Office • Countering Weapons of Mass Destruction Office • DHS Office of Health Affairs	• Centers for Disease Control & Prevention Office of Acquisition Services • National Institute of Allergy and Infectious Diseases • National Center for Advancing Translational Sciences	• Volpe National Transportation Systems Center • Office of Research, Demonstration & Innovation • Intelligent Transportation Systems JPO	• Office of Research and Development • Office of Air and Radiation • Office of Water

COMPANIES

Find out which companies, emerging and/or underserved, are winning. Determine which companies are progressing and scaling.

Suppliers' Information					Experience			
Company Name	Headquarters (City/State)	Under Served Status	Specialties and Expertise	Private Capital Investor Name	SBIR/STTR Awards	Other Federal Contracts	OTAs	Grants
Scale AI	San Francisco, CA	Woman Owned	Computer Vision, Autonomous Driving, Video Object Tracking, Algorithmic Matching, Generative AI Architecture	—	1 $749K	4 $39M	2 $399K	—
Beacon AI	San Francisco, CA	SDVOSB, SDB	Machine Learning, Fl Route Optimizati Sof					
JAXON, INC.	Concord, MA	—	Data Curation & Lal Synthetic Data, La Training, Kno					
GMATEK	Annapolis, MD	WOSB	Deep Learning, S Autonomous Vessels Event D					
Alpha Drive	Brooklyn, NY	WOSB	Artificial Intelligenc Reinforcement Le Artificial					
Neureon Incorporated	Ballston Lake, NY	WOSB	Neural Networks Machine Learning, U Neuromorpt					
Modern Intelligence	Austin, TX	—	Target Recognition, Imaging, Sensor Base					
Grey Matters Defense Solutions	Aurora, CO	8(a)	Data Analytics Algor Technologies, Big D Intel					
Ghamut Corp	East Lansing, MI	Hubzone	Digital Transformat Interaction, Aut Devel					

Full set of suppliers and SBIR data available with data license.

GEOGRAPHIC CLUSTERS

Identify emerging geographic clusters across the country, for specific technologies and innovations.

States	Total Funding Award	Biotech	Adv. Materials	Data Storage	Electronic Warfare	Adv. Comm.	AI & Autonomy	Space Tech	Clean Energy	Microelectronics	Natural Disaster	Robotics	Quantum Tech	FinTech	Other
CA	$3.5B	$1B	$351M	$388M	$375M	$433M	$428M	$409M	$205M	$307M	$181M	$150M	$85M	$30M	$76M
MA	$1.9B	$725M	$227M	$166M	$217M	$216M	$155M	$196M	$152M	$126M	$143M	$85M	$39M	$9M	$42M
VA	$1B	$185M	$134M	$230M	$152M	$160M	$170M	$11							
MD	$784M	$350M	$43M	$138M	$71M	$77M	$127M	$5							
NY	$771M	$330M	$58M	$121M	$57M	$77M	$96M	$3							
CO	$765M	$159M	$118M	$87M	$97M	$97M	$71M	$17							
TX	$758M	$280M	$116M	$98M	$75M	$81M	$88M	$6							
PA	$729M	$292M	$102M	$60M	$104M	$48M	$91M	$8							
OH	$664M	$163M	$154M	$97M	$89M	$59M	$65M	$4							
NC	$583M	$393M	$42M	$52M	$57M	$28M	$38M	$2							

☐ Represents highest funding by state   ☐ Represents second-highest f

Note: The funding amount will get overlapped with other critical tech areas as a

TOP 20 METROPOLITAN STATISTICAL REGIONS FOR BIOTECHNOLOGY & MEDICAL TECHNOLOGY SBIR AWARDS
2018-2022

Seattle-Tacoma Bellevue, WA
Minneapolis-St. Paul Bloomington, MN-WI
Boston-Cambridge Newton, MA-NH
Ann Arbor, MI
Denver-Aurora Lakewood, CO
Chicago-Naperville Elgin, IL-IN-WI
New York-Newark Jersey City, NY-NJ-PA
San Francisco-Oakland Berkeley, CA
St. Louis, MO-IL
Philadelphia-Camden Wilmington, PA-NJ-DE-MD
San Jose-Sunnyvale Santa Clara, CA
Durham-Chapel Hill, NC
Baltimore-Columbia-Towson, MD
Los Angeles-Long Beach Anaheim, CA
Atlanta-Sandy Springs Alpharetta, GA
Washington-Arlington Alexandria, DC-VA-MD-WV
San Diego-Chula Vista Carlsbad, CA
Austin-Round Rock Georgetown, TX
Houston-The Woodlands Sugar Land, TX
Miami-Fort Lauderdale Pompano Beach, FL

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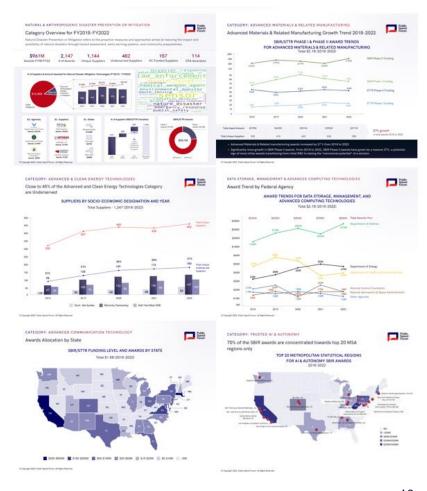- 0M
- <$100M
- $200M-$500M
- $500M-$1000M
- $1000M-$1200M

CATEGORY SPECIFIC ANALYSIS

Dive into a technology category by category deep dive, to identify use cases, funding offices, companies, geographic clusters and more.

13 Category by Category Sections

Category Dashboards + Analyses

What Leaders are Saying

This is a terrific report. We're going to share internally. There are more than a handful of companies that would find this useful.

Director at Defense Innovation Unit

This is **some of the best work I've ever seen**! Imagine, applying this same analysis to millions, all investments by region and people.

Executive Director, University of Chicago Center for Impact Sciences

This is fantastic data! We certainly would like a briefing.

SVP of Microelectronics and Advanced Technologies, Large OTA Manager

Methodology

The focus of this report and analysis is to provide high-level insights BY CRITICAL TECHNOLOGY AREA across agencies, regions, and companies. We will conduct deeper analysis into regions and use cases in subsequent reports.

To conduct this analysis, we utilized:

- Public/Private/PSF-generated and enriched supplier, investor and SBIR datasets that are part of AI-MI datasets

- PSF's AI-MI^{TM} to enrich data and develop insights into technologies, use cases, and investments

- Critical analysis of the outputs, with an eye towards answering key questions

Please Note: *This analysis is not an accounting exercise. Our intent is to be 90% directionally correct, which we have achieved based on significant validation of results as well as the validations we conduct as part of our ongoing data management.*

Get Started Today!

Download Detailed Preview Report

Contact us at support@publicspendforum.net for report buying options.

AI-Enabled Market Intelligence (AI-MI^{TM})

Deep Tech Intelligence
Market, Ecosystem and Supply Chain Assessments
Supplier Diagnostics and Risk Monitoring (in partnership with Resilinc)

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