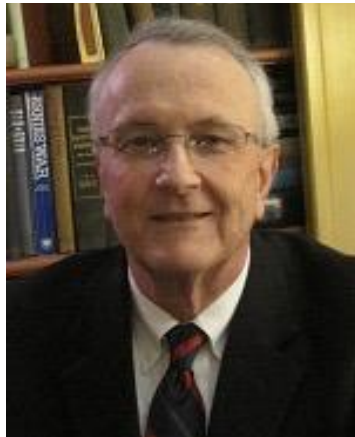


Driving Small Business Innovation Across the Services

Panel Discussion Moderated by ML Mackey



ML Mackey
Moderator



Dick McNamara
NAVSEA SBIR



Donna Attick
NAVAIR SBIR



Jim Sweeney
AF SBIR



Tina Barnhil
MDA SBIR



Dusty Lang
DHS SBIR



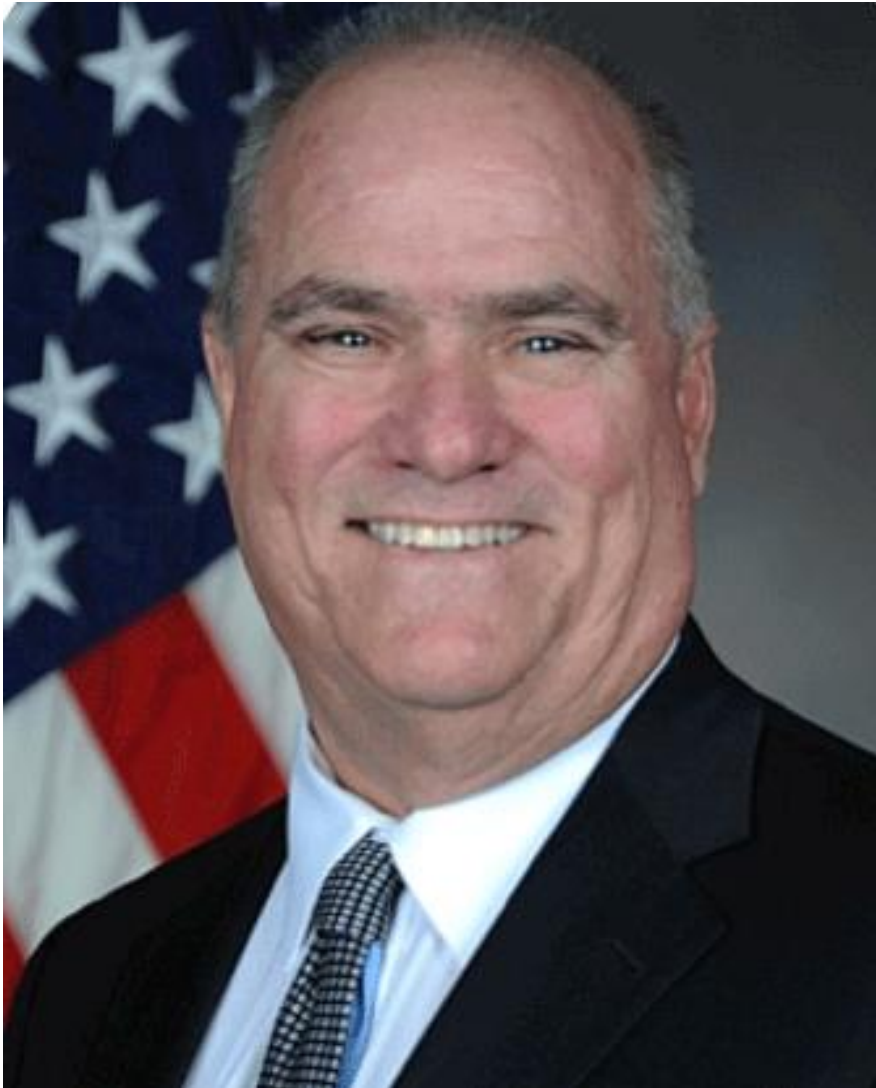
Richard McNamara

NAVSEA SBIR Program,
Naval Sea Systems Command



Donna Attick

NAVAIR SBIR/STTR Program Manager,
Naval Air Systems Command



James Sweeney

Air Force SBIR/STTR Program Office,
U.S. Air Force



AFWERX

SBIR ★ STTR

NDIA Presentation

7 Dec 2021

James A. Sweeney III

DAF SBIR/STTR Division Engagement Lead

AFRL/RGB

Wright-Patterson AFB

Technology Areas Funded

Follow the links to explore and discover the full spectrum of Technology Areas we are funding:

Submit Ideas:

<https://airforcetechconnect.org/share-idea>

Connect with Air Force Partners:

<https://airforcetechconnect.org>

Phase 1 Focus Areas:

https://www.afsbirsttr.af.mil/Portals/60/documents/Copy%20of%20AFVentures%20Focus%20Areas_Update_v2_041421.pdf

Key Capabilities for the Air Force

Key Capabilities for the Air Force We Need



(U) Absent change, our presumed advantage will continue to erode, and the U.S. Air Force will not be adequately prepared for the warfighting challenges in contested environments. Absent change, our Nation will assume increasing risks to our mission and our forces.

Accelerate Change or Lose
Gen Brown, 22nd Chief of Staff of the Air Force

Connect the Joint Force

Win the decision superiority contest

Generate Combat Power

Project a superior mass of resilient and decisive domain-agnostic effects

Conduct Logistics Under Attack

Guarantee a seamless, protected, culmination-preventing system of systems

Key Capability	Definition	Parameters
Agile Combat Employment (ACE)	Hub and Spoke / Cluster Base Operations / rapid dispersal and aggregation [Linkages: ABMS, Base Defense, LUA, Future Tactical Lift]	Resiliency achieved through training, dispersal, deception, redundancy, and selective hardening.
Autonomous Collaborative Platforms (ACPs)	Advanced sensor-to-shooter kill chains and manned/unmanned teaming. [Linkages: ABMS]	Low-Cost, reusable aircraft with open-systems architecture and modular configuration. Reduced runway dependence.
Advanced Battle Management System (ABMS)	Agile, resilient & integrated joint Command & Control solutions to accelerate decision-making across all domains. [Linkages: Airborne Moving Target Indication]	Digital, high-tech capabilities to rapidly collect, analyze and share information for real-time decision-making. Advanced computing, AI/ML.
Base Defense	Organic, layered defense of critical power projection infrastructure. [Linkages: ABMS]	Organic, integrated passive/active, kinetic/non-kinetic systems at the installation level that bridge the defensive gap to theater air and missile defense capabilities.
Alternative Position, Navigation and Timing (PNT)	Diverse & robust PNT signals, superior crypto, and resilient end user equipment.	Diverse and robust PNT signals; User equipment transforms to accommodate diverse and robust signals. Advanced computing.
Synthetic Operational Test & Training Infrastructure (OTTI)	Threat/AOR-representative all-spectrum synthetic training system-of-systems with deliberate conceal/reveal attributes. [Linkages: ABMS]	Multi-classification, low/no-latency, Joint & Combined architecture. Advanced Computing.
Advanced Munitions	Weapons inventory with calculated mix of networked, collaborative, and autonomous capabilities. [Linkages: ABMS, ACPs]	Accelerated and adaptive Joint Fires employment that enables long range kill chains. AI/ML.
Palletized Munitions	Generate mass fires from non-traditional launch platforms. [Linkages: ACE, Advanced Munitions]	Employ a range of weapons via self-contained, roll-on/roll-off palletized system.
Future Tactical Lift (HSVTOL, Rocket Cargo)	Mobility platform with speed, capacity & survivability to enable versatile distribution capabilities in order to enable point-of-origin to point-of-need movements in a contested environment. [Linkages: ABMS, LUA, SOF, PR]	Family of systems meeting Multi-capable Distribution Platform Concept; Achieve payload, range, survivability, speed, altitude to collectively meet mission requirements; attritable platforms where risk is overwhelming.

More Information about AFWERX and the Air Force SBIR program

Air Force Tech Connect: <https://airforcetechconnect.org>

Air Force Tech Connect Idea Submittal: <https://airforcetechconnect.org/share-idea>

FAQs: <https://www.afsbirsttr.af.mil/FAQs/>

Topic pre-release can be tracked at: <https://www.dodsbirsttr.mil/submissions/login>

or

Broad Agency Announcement (BAA) The Air Force SBIR/STTR web page:
<https://www.afsbirsttr.af.mil/About/Broad-Agency-Announcement/>

More about AFWERX: [http://afwerx.com./](http://afwerx.com/)

SBIR/STTR Help Desk: usaf.team@afsbirsttr.us



Christina Barnhill

SBIR/STTR Business Operations Manager,
Missile Defense Agency



Dusty Lang

DHS SBIR/STTR Program Manager,
U.S. Department of Homeland Security

DHS SBIR Statistics

Small Business Innovation Research

PHASE I

Scientific and Technical Feasibility
Proof of Concept

PHASE II

Prototype Development
Demonstration

PHASE III

Commercialization
Derives from, Extends, or Logically Concludes



SBIR · STTR
America's Seed Fund™
POWERED BY SBA

254 TOPICS

17% of Phase I submissions
received a Phase I awards

\$76M

755 PHASE I AWARDS

46% of Phase I awards received
a Phase II award

\$247M

350 PHASE II AWARDS

57%+ of Phase II projects
received Phase III funding

\$450M+

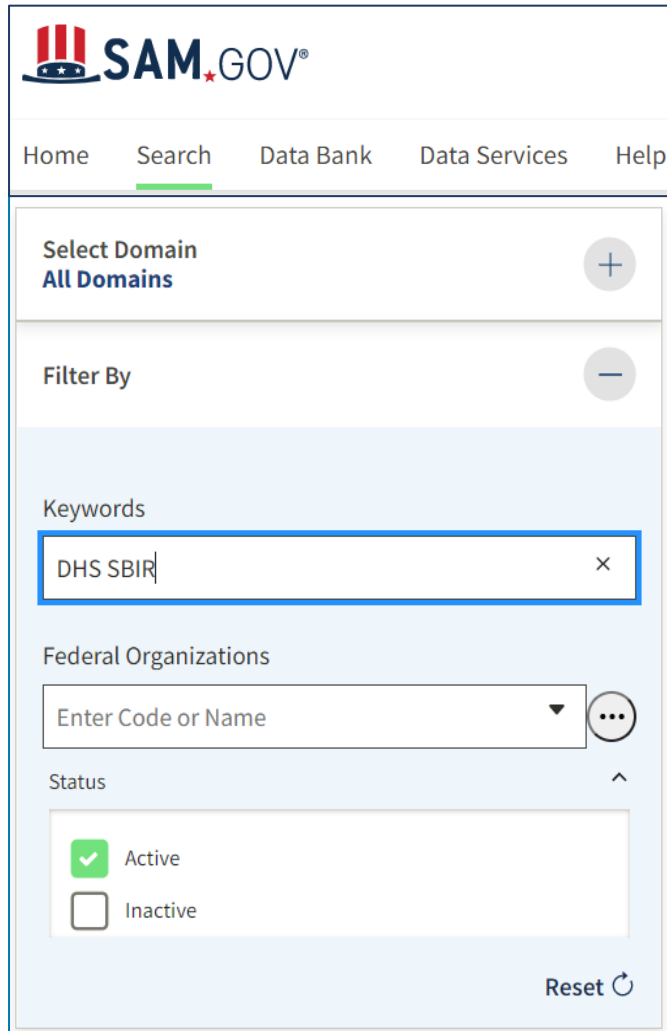
200+ PHASE III AWARDS

DIVERSE PERSPECTIVES + SHARED GOALS = POWERFUL SOLUTIONS

OATS – Traditional Methods



OATS – New Option



The screenshot shows the SAM.GOV search interface. At the top left is the SAM.GOV logo. Below it is a navigation bar with links for Home, Search, Data Bank, Data Services, and Help. The main search area includes a 'Select Domain' dropdown set to 'All Domains', a 'Filter By' dropdown, a 'Keywords' input field containing 'DHS SBIR', a 'Federal Organizations' dropdown set to 'Enter Code or Name', and a 'Status' section with 'Active' selected and 'Inactive' unselected. A 'Reset' button is at the bottom right of the search area.

DHS SBIR is seeking 5-page (single sided) white papers to learn how SBIR/STTR awardees from other federal agencies think their technologies may apply to the requirements provided for the following topics

- ❑ 5G Internet of Things Situational Awareness System

https://bit.ly/DHSSBIR_5GIOT_OATS

- ❑ Autonomous Vessel Tracking for Ports and Waterways

https://bit.ly/DHSSBIR_AVT_OATS

- ❑ Standoff Chemical, Biological, Radiological, and/or Nuclear Threat Detection for City Wide Coverage

https://bit.ly/DHSSBIR_CBRN_OATS

NDIA 2021

SBIR Topic Workshop

December 7

