

# Department of Defense



**Michael Caccuitto**  
DoD SBIR/STTR Program Administrator



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

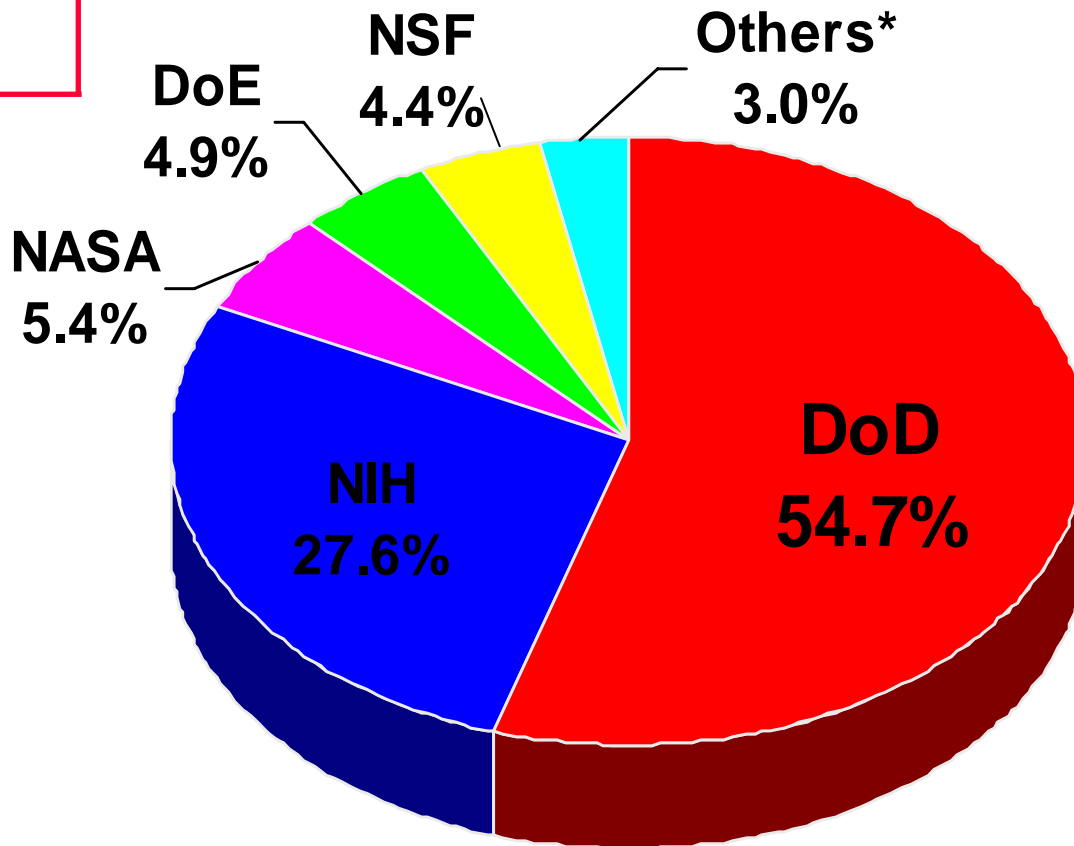
# DoD SBIR/STTR Mission

Advancing technology development  
by small businesses for the military  
warfighter and the nation



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# DoD is Half the Federal SBIR Program

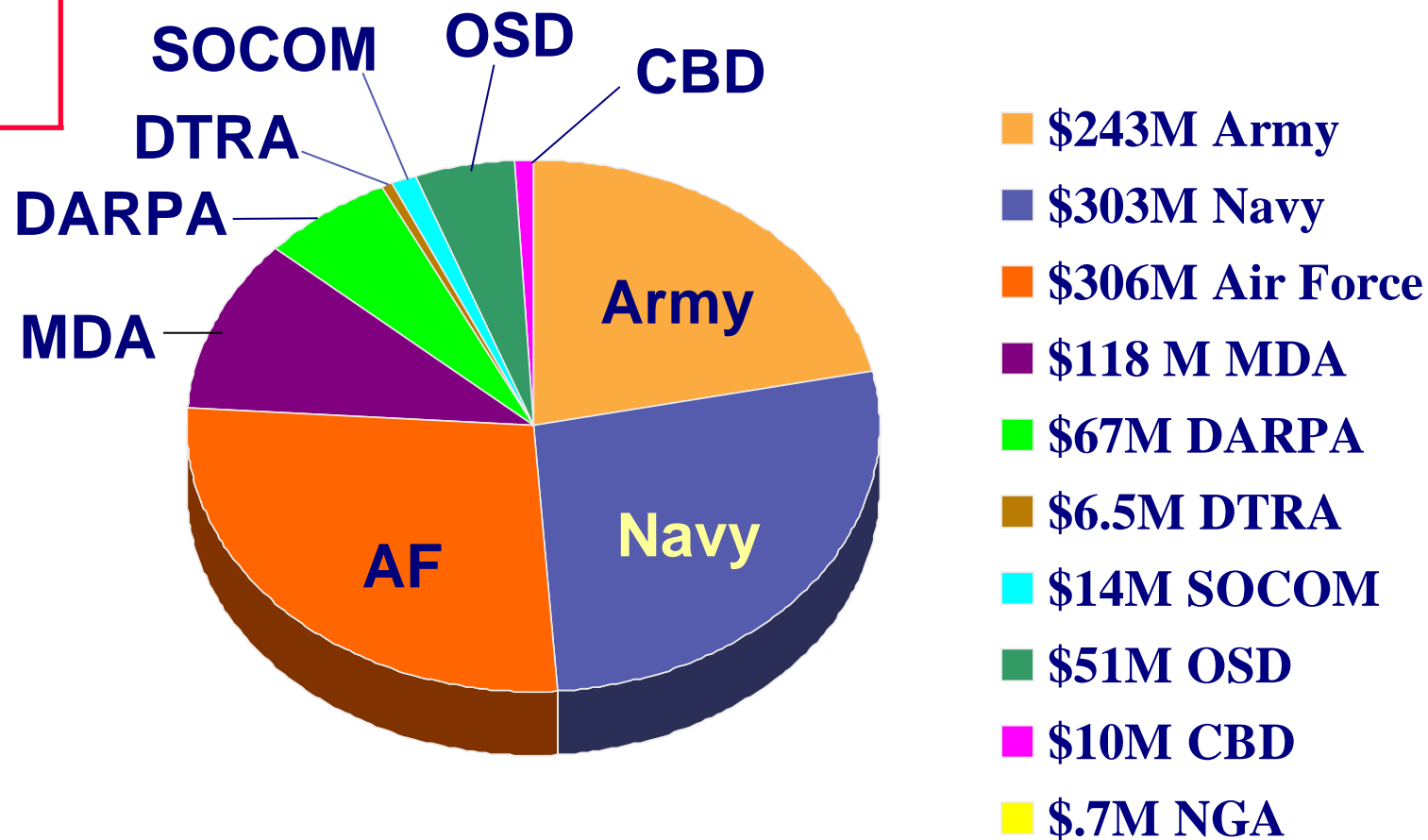


Largest of 11  
Participating  
Federal Agencies

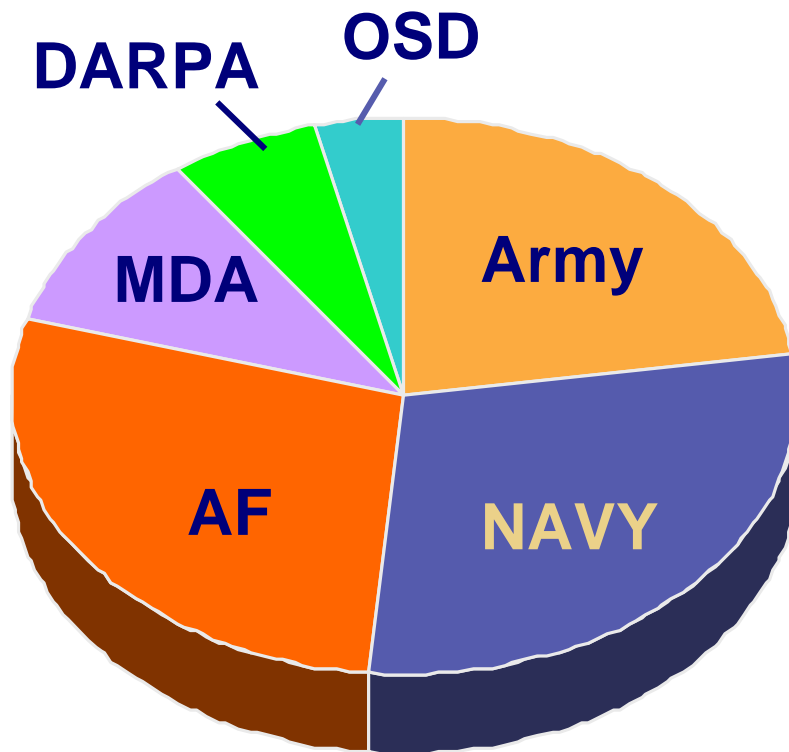
SBIR FY06 Budget  
**\$1.12B**

STTR FY06 Budget  
**\$130M**

# DoD SBIR FY06 Budget



# DoD STTR FY06 Budget



■ \$29M Army

■ \$37M Navy

■ \$36M Air Force

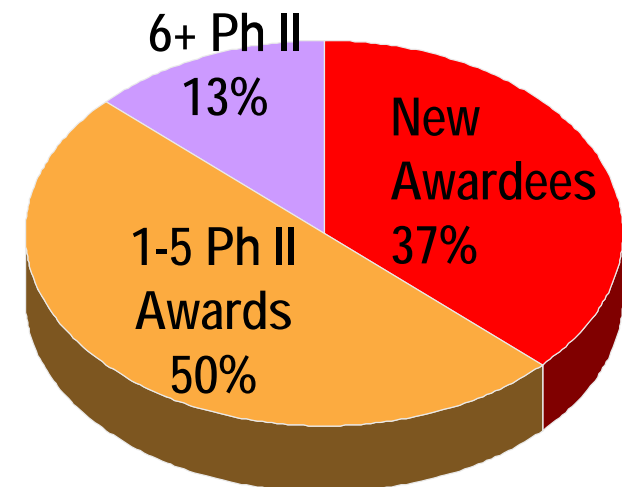
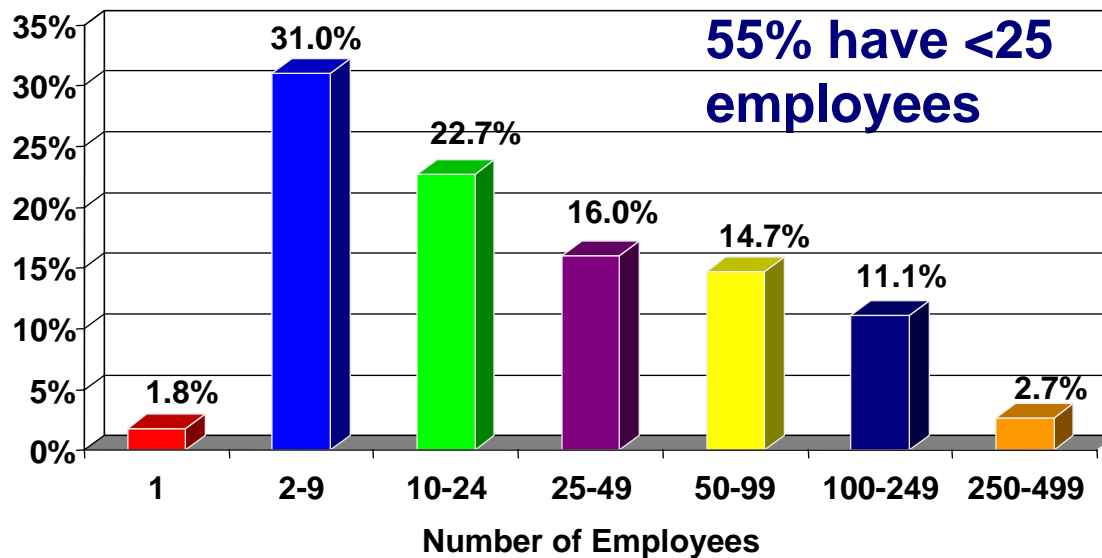
■ \$14M MDA

■ \$8M DARPA

■ \$4.6M OSD

# Firm Participation: Phase I Awardees are

- ✓ Typically very small
- ✓ Fairly new to the programs



FY05 Phase I Awardees

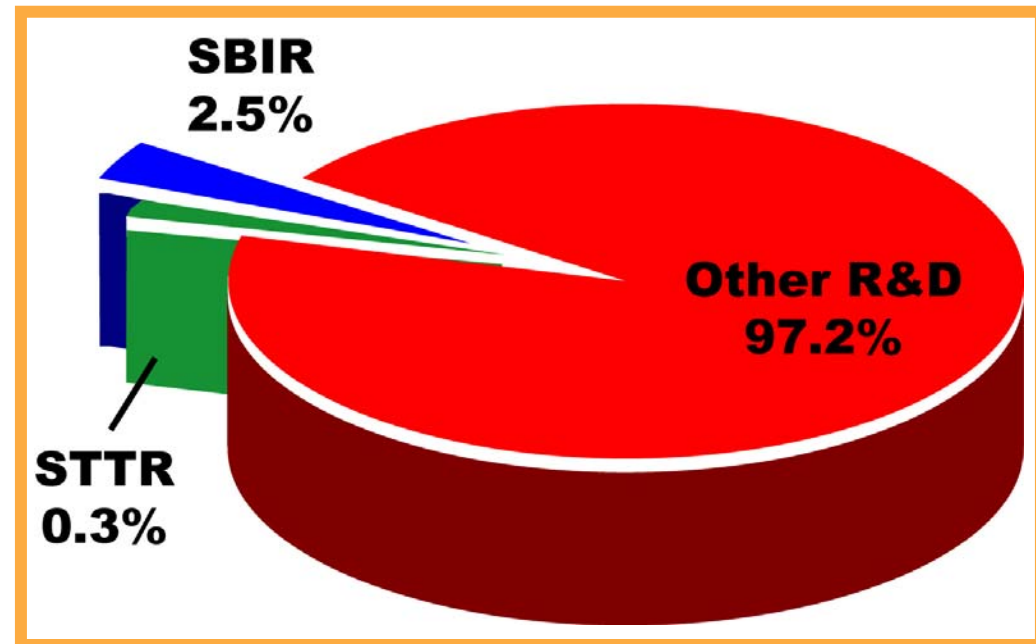
Firm data as of March 2006



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# SBIR/STTR: Small Piece of R&D Pie

**SBIR** and **STTR** are a small percentage of the total extramural R&D budget, but is where small businesses demonstrate their capability to meet federal R&D needs



**Total Extramural  
R&D Budget**

# DoD Technology Areas

- ✓ Air Platforms
- ✓ Battlespace Environments
- ✓ Chemical & Biological Defense
- ✓ Weapons
- ✓ Human Systems
- ✓ Materials & Processes
- ✓ Information Systems Technology
- ✓ Space Platforms Technology
- ✓ Biomedical
- ✓ Sensors, Electronics & Electronic Warfare
- ✓ Nuclear Technology
- ✓ Ground and Sea Vehicles Technology





# Evaluation Criteria

- ✓ Soundness, technical merit, and innovation of proposed approach and its incremental progress toward topic or subtopic solution
- ✓ Qualifications of the firm and team to perform R&D and commercialize results
- ✓ Potential for commercialization

# FY06 Solicitation Dates

**SBIR: 06.1** open: December 13, 2005  
close: January 13 at 6 a.m. EST

**06.2** open: June 14, 2006  
close: July 14 at 6 a.m. EST

**06.3** open: September 13, 2006  
close: October 13 at 6 a.m. EST

**STTR: 06** open: March 14, 2006  
close: April 14 at 6 a.m. EST

Solicitations are pre-released for Q&A 6 weeks prior to open date



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# Website: [www.dodsbir.net](http://www.dodsbir.net)

**DEPARTMENT OF DEFENSE** *Resource Center*  
**Small Business Innovation Research**  
[www.dodsbir.net](http://www.dodsbir.net)

**SEARCH**

- AWARDS**  
DoD SBIR & STTR Awards
- TOPICS**  
Current DoD SBIR & STTR Topics
- SITIS**  
Interactive Topic Info System

**INTEREST**

- [ABOUT SBIR/STTR](#)
- [CURRENT SOLICITATION](#)
- [SELECTION LISTINGS](#)
- [CONFERENCES](#)
- [DESK REFERENCE](#)
- [MAJOR ACQUISITION LIAISONS](#)
- [SUCCESS STORIES](#)
- [FIRMS IN THE NEWS](#)
- [SBIR ANNUAL REPORT](#)
- [STTR ANNUAL REPORT](#)
- [FAST TRACK](#)

**HELP**

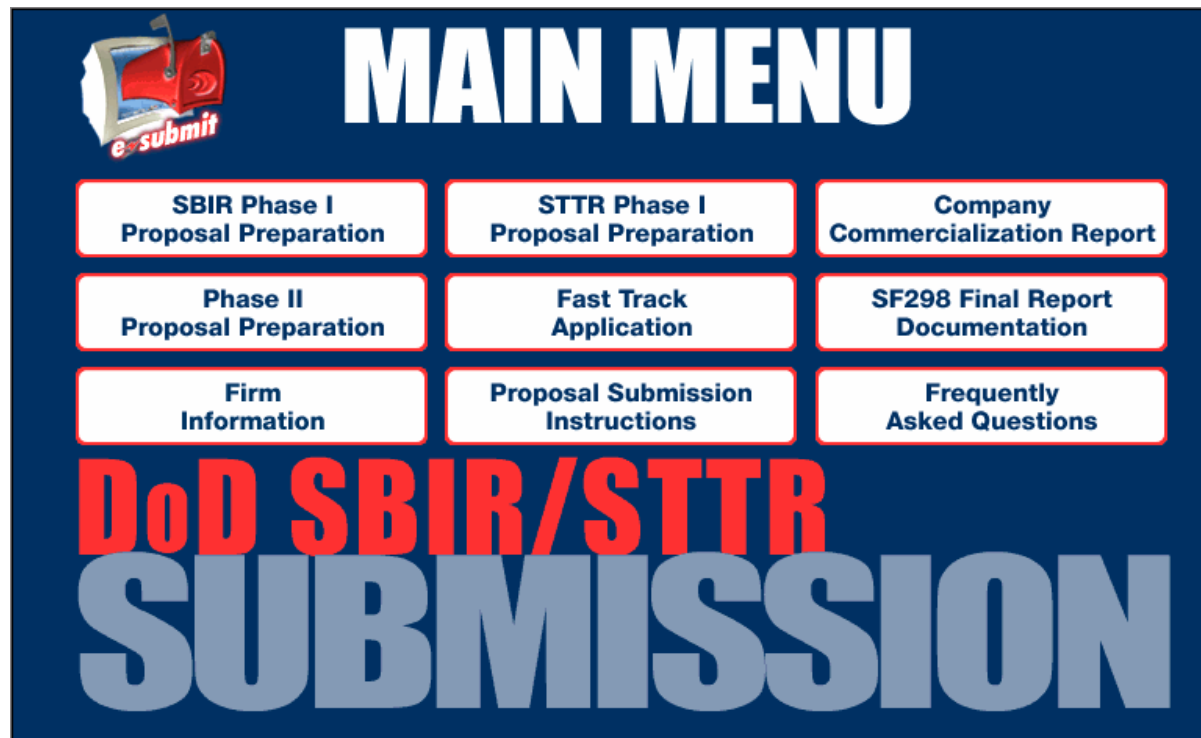
- HELPDESK**  
Answers Questions About DoD SBIR & STTR
- WEBSITE**  
Main Website for More Information
- LISTSERV**  
Subscribe to Receive Program Notices and Updates
- SUBMISSION TUTORIAL**  
Tutorial on how to use the DoD SBIR/STTR Submission Site

**SUBMISSION** **SUBMISSION**  
DoD SBIR/STTR Proposal Submission

**PRIVACY AND SECURITY POLICY**

Provides links to the current solicitation, search for topics, awards and SITIS information, learn more about SBIR/STTR, Proposal Submission, Success Stories, Conferences, Fast Track, Annual Reports, and additional Help.

# Electronic Proposal Submission



The Submission Site's Main Menu allows registered firms to prepare and submit Phase I and Phase II proposals, update their Company Commercialization Report and Firm Information, prepare a Fast Track application, and prepare a Final Report Documentation Page.

# SUCCESS STORIES



Small Arms Protective Inserts (SAPI)



Phraselator: hand-held phrase translation system



Multi-Purpose Processor (MPP) and associated Multi-Purpose Transportable Middleware (MTM)



World's first whole-spacecraft vibration isolation system.



Commercially-viable method For improved semiconductor wafer production



QC-40 DSP board, which launched on Mighty-SatII Spacecraft

# Army SBIR & STTR

The Army Research Office (ARO)– Washington manages the Army SBIR Program and the ARO, in Research Triangle Park, NC, manages the Army STTR Program. These programs allow small, high-tech U.S. businesses and academia to propose innovative R&D solutions to critical Army technology requirements that benefit the warfighter

Tech Areas: **Materials, Information Systems Technology, Sensors, Weapons, Ground & Sea Vehicles, Human Systems**

PEOs: **Ammunition, Soldier, CS&CSS, C3T, EIS, GCS, IEW&S, STRI, Aviation, JSSEO, Missile & Space**

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	245	705	123
STTR	32	48	26
TOTAL	277	753	149

## ***FY06 Budget:***

SBIR \$243,385,000

STTR \$29,203,000

## ***Solicitations:***

SBIR FY06.2 (July)

STTR FY06 (April)

PM: **Susan Nichols**  
**Ellen Segan**



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# Navy SBIR & STTR

The Navy's SBIR/STTR programs are mission-oriented, integrating the needs and requirements of the Navy's Fleet through R&D topics. They provide companies the opportunity to become part of the national technology base. We emphasize on the small business the need to market its Phase II technology to both military and private sectors.

Tech Areas: **Sensors, Materials, Electronics, Battlespace, Information Systems Technology, Ground & Sea Vehicles**

PEOs: **Submarine, IW, Aircraft Carriers, Ships, LMW, Air ASW, JSF, Tactical Air Programs, Strike Weapons & Unmanned Aviation**

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	163	466	290
STTR	33	96	33
TOTAL	196	562	323

## ***FY06 Budget:***

SBIR \$321,577,000

STTR \$38,589,243

## ***Solicitations:***

SBIR FY06.1 (January)

SBIR FY06.2 (July)

STTR FY06 (April)

STTR FY06.3 (October)



PM: **John Williams**

# Air Force SBIR & STTR

The AF SBIR/STTR Programs serve the technology needs of the Air Force warfighter. The Air Force Research Laboratory's (AFRL) integrated R&D team's mission is to be the Air Force's agent for identifying and providing advanced, affordable, and integrated technologies that keep our Air Force the best in the world.

Tech  
Areas:

Directed Energy, Human Effectiveness, Materials, Information Technology, Munitions, Propulsion, Sensors, Air Vehicles, Space Vehicles

DACs &  
PEOs:

AAC, ASC, ESC, SMC, OC-ALC, OO-ALC, WR-ALC, AEDC, AFFTC, 46th TW, JSF, F/A-22

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	249	608	339
STTR	27	106	49
TOTAL	276	714	388

## ***FY06 Budget:***

SBIR \$306,274,000

STTR \$36,753,000

## ***Solicitations:***

SBIR FY06.1 (January)

STTR FY06 (April)

PM: **Steve Guilfoos**



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense



# DARPA SBIR & STTR

## Defense Advanced Research Projects Agency

DARPA SBIR/STTR Programs stimulate technological innovation, strengthen the role of small business in meeting DARPA and DoD R&D needs, foster and encourage participation by minority and disadvantaged persons in technological innovation, and increase private sector commercialization of technological advances developed through DARPA funded R&D.

**Ph I: must identify end user**

**Ph II: must maintain communications with DARPA PM; pass DCAA audit**

Tech Areas: **Electronics, Sensors, Information Systems Technology, Battlespace**

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	28	74	80
STTR	9	24	8
TOTAL	37	98	88

### ***FY06 Budget:***

SBIR \$67,019,000

STTR \$8,042,000

### ***Solicitations:***

SBIR FY06.2 (July)

STTR FY06 (April)



**PM: Connie Jacobs**



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# MDA SBIR & STTR

The MDA SBIR/STTR Programs support MDA's mission to develop and field an integrated Ballistic Missile Defense System (BMDS) capable of providing a layered defense for the homeland, deployed forces, friends, and allies against ballistic missiles of all ranges in all phases of flight.

Tech Areas: **Materials, Sensors, Space Platform, Information Systems Technology, Weapons**

Transition: **Ballistic Missile Defense System (BMDS)**

## Missile Defense Agency

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	69	240	102
STTR	21	30	16
TOTAL	90	270	118

### *FY06 Budget:*

SBIR \$118,843,350

STTR \$14,261,202

### *Solicitations:*

SBIR FY06.3 (October)

STTR FY06 (April)



PM: **Mike Zammit**



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# OSD SBIR & STTR

By supporting high quality R&D to support defense-related scientific or engineering problems, the OSD SBIR/STTR Programs stimulate technological innovation, strengthen the role of small business in meeting DoD R&D needs, foster and encourage participation by minority and disadvantaged persons in technological innovation, and increasing the commercial application of DoD-funded R&D results.

## DDR&E and DHP

Tech Areas: **Materials, Weapons, Biomedical, Information Systems Technology**

## Office of Secretary of Defense

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	68	163	38
STTR	5	20	0
TOTAL	73	183	38

### *FY06 Budget:*

SBIR \$51,000,000\*

STTR \$4,600,000

### *Solicitations:*

SBIR FY06.3 (October)

STTR FY06 (April)

PM: **Teresa Puretz**



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# SOCOM SBIR

Topics are capabilities-based, designed to focus on the needs of the Special Operations Forces (SOF) Warrior. Topics have been selected on their potential to transition to an acquisition program. USSOCOM is seeking small businesses with a strong R&D capability to transition technology to provide the SOF Warrior enhanced equipment and training.

Tech Areas: **Mobility, Information Operations & Psychological Operations, Sensors, Command and Control, Fire Support, Training Systems, Logistics, Medical Signature Management, Command, Control, Communications, and Computers (C4), Power and Energy, Tagging, Tracking and Locating (TTL)**

## Special Operations Command

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	11	25	14

### *FY06 Budget:*

SBIR \$14,133,000

### *Solicitations:*

SBIR FY06.1 (January)

SBIR FY06.2 (July)

PM: **Karen Pera**



# DTRA SBIR

DTRA is actively involved in meeting current threats to the Nation and working toward reduction of CBRNE (Chemical, Biological, Radiological, Nuclear and Explosives) threats in the future. To meet these requirements, DTRA seeks small businesses with strong R&D capability and expertise in weapons effects (blast, shock and radiation), arms control, dispersion modeling, chemical and biological defense, and counterproliferation technologies.

Tech  
Areas: **Sensors, Nuclear Technology**

## Defense Threat Reduction Agency

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	14	40	4

### ***FY06 Budget:***

SBIR \$6,579,000

### ***Solicitation:***

SBIR FY06.1 (January)

PM: **Lt. Col. John Kelley**



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense

# CBD SBIR

The objective of the CBD SBIR program is to elicit innovative solutions from the small business community that address chemical and biological defense technology gaps confronting DoD and to include technologies that will also have high commercialization potential in the private sector. Technologies developed have the potential to transition to the Joint Program Executive Office (JPEO-CBD) if the appropriate level of technology maturity has been demonstrated.

Tech Areas: **Chemical/Biological Defense, Biomedical, Sensors, Info Systems**

PEOs: **JPEO-CBD**

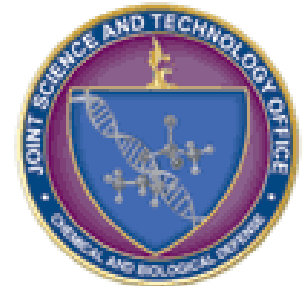
## Chemical and Biological Defense

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	23	21	7

***FY06 Budget:***  
SBIR \$10,212,000

***Solicitation:***  
SBIR FY06.1 (January)

PM: **Larry Pollack**



# NGA SBIR

The mission of the NGA is to provide timely, relevant, and accurate Geospatial-Intelligence in support of national security. NGA provides geospatial intelligence in all forms, and from whatever source – imagery, imagery intelligence and geospatial data and information – to ensure the knowledge foundation for planning, decision, and action.

Therefore, NGA pursues research that will help guarantee the information edge over potential adversaries.

Tech  
Areas: **Information Systems Technology**

## National Geospatial-Intelligence Agency

FY05	Number of Topics	Phase I Awards	Phase II Awards
SBIR	1	2	1

***FY06 Budget:***  
SBIR \$700,000

***Solicitation:***  
SBIR FY06.1 (January)

PM: **Nancy Groves**



# Questions?

- ✓ Contact the DoD  
SBIR/STTR Help Desk
  - ✱ 866-724-7457
  - ✱ [www.dodsbir.net/helpdesk](http://www.dodsbir.net/helpdesk)



SMALL BUSINESS  
INNOVATION RESEARCH  
Department of Defense