



The Small Business Innovation Research (SBIR) program was established by Congress in 1982 to fund research and development (R&D) through small businesses of 500 or fewer employees. Eleven federal agencies participate in the program, including the Department of Defense.

The Small Business Technology Transfer (STTR) program was established in 1992 to fund cooperative R&D projects with small businesses and non-profit U.S. research institutions, such as universities. Five federal agencies participate in this program, including the Department of Defense.

Both programs focus on projects with the potential to develop into a product or service for defense or commercial markets.

## PROGRAM STRUCTURE

The majority of Air Force topics will be released in the DoD's first (.1) cycle of the SBIR solicitation and the first (.A) cycle of the STTR solicitation. However, in any year it may be possible that the Air Force participates in the second (.2/.B) and/or third (.3/.C) cycles if the need arises. There are three award phases:

PHASE I	PHASE II	PHASE III
<p><b>I</b></p> <ul style="list-style-type: none"> <li>• Feasibility study</li> <li>• Up to \$150K and nine months</li> </ul>	<p><b>II</b></p> <ul style="list-style-type: none"> <li>• Full R&amp;D effort</li> <li>• Up to \$750K initially for Air Force and two years</li> </ul>	<p><b>III</b></p> <ul style="list-style-type: none"> <li>• Final development/production</li> <li>• External non-SBIR funding <i>(public sector and/or government sources)</i></li> </ul>

## PARTICIPATION

To participate in the Air Force SBIR/STTR Program, a company must qualify as a small business, including size and ownership requirements. Any Air Force organization with a valid need and intent to consider innovative technical solutions may sponsor a topic and utilize Air Force SBIR/STTR funding.

To participate in **SBIR**, small business must:

- Be the primary employer of the principal investigator (PI)
- Perform two-thirds of the research in Phase I and one-half in Phase II
- Perform the work in the United States

To participate in **STTR**, small business must:

- Perform at least 40 percent of work
- Partner with a U.S. research institution which must perform at least 30 percent of work (PI must be employed at the small business or the research institution)
- Perform the work in the United States

## PROPOSAL EVALUATION

Air Force experts in a particular topic area evaluate proposals on:

- Soundness, technical merit and innovation of proposed approach
- Qualifications of the principal/key investigators and supporting staff
- Potential of technology for commercial application (government or public sector)

## U.S. AIR FORCE SBIR | STTR PROGRAM MANAGEMENT OFFICE LEADERSHIP

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*Leads discovery, development and integration of war-fighting technologies for air, space and cyberspace forces*

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*Alternative fuels, unmanned vehicles, hypersonic vehicles, collision avoidance*

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*Basic research, material and life sciences, math, physics*

#### **DIRECTED ENERGY - Wayne Mashburn** | wayne.mashburn.1@us.af.mil

*Laser systems, high power electromagnetics, weapons modeling and simulation*

#### **711<sup>th</sup> HUMAN PERFORMANCE WING - Jennifer Brown** | jennifer.brown.20@us.af.mil

*Training, decision making, forecasting, performance*

#### **INFORMATION - Denise Lee** | denise.lee.1@us.af.mil

*Advanced computing architectures, cyber operations, information exploitation*

#### **MATERIALS AND MANUFACTURING - Deborah Shaw** | deborah.shaw.3@us.af.mil

*Materials and advanced manufacturing technologies for aircraft, spacecraft, missiles, rockets and ground-based systems*

#### **MUNITIONS - Shirley Schmieder** | shirley.schmieder@us.af.mil

*Explosives, weapons integration, guidance, fuses, navigation, control*

#### **SENSORS - Julie Harris** | julie.harris.1@us.af.mil

*Antennas, radar, reconnaissance, electronic warfare, microelectronics*

#### **SPACE VEHICLES - Marla Trujillo** | marla.trujillo@us.af.mil

*Spacecraft technology, battlespace awareness, experiment integration and evaluation*

### **AIR FORCE SUSTAINMENT CENTER - Donna Stacy** | donna.stacy@us.af.mil

*Provides depot maintenance, supply chain management and installation support*

### **AIR FORCE TEST CENTER - Kevin Medina** | kevin.medina.1@us.af.mil

*Conducts developmental test and evaluation of air, space and cyber systems*

### **AIR FORCE LIFE CYCLE MANAGEMENT CENTER - Walt Fenstermacher** | a.fenstermacher.2@us.af.mil

*Acquires and supports aircraft, engines, munitions, electronics, and cyber weapon systems and sub-systems*

### **AIR FORCE NUCLEAR WEAPONS CENTER - Wallace Clark** | wallace.clark.1@us.af.mil

*Acquires and sustains affordable, timely and effective nuclear weapon systems*

### **F-35 JOINT STRIKE FIGHTER PROGRAM OFFICE - Jennifer Webb** | jennifer.webb@jsf.mil

*Defines next-generation strike aircraft weapon systems for the Navy, Air Force, Marines, and U.S. allies*

### **SPACE & MISSILE SYSTEMS CENTER - Warren James** | warren.james@us.af.mil

*Develops, acquires, fields and sustains military space systems*

### **AIR FORCE CIVIL ENGINEER CENTER - Joe Wander** | joseph.wander@us.af.mil

*Provides civil engineering services, requirements, RDT&E and systems acquisition supporting Air Force operations*

### **AIR FORCE SPECIAL OPERATIONS COMMAND - Rhys Macbeth** | william.macbeth.1@us.af.mil

*Organize, train, equip, maintain and provide special operations airpower to combatant commanders*

### **AIR FORCE MEDICAL SUPPORT AGENCY - Sherry Goodman** | sherry.a.goodman.civ@mail.mil

*Provides comprehensive consultant support and policy development to the Air Force Surgeon General*

## ONLINE RESOURCES FOR SMALL BUSINESSES

**AFRL Small Business Office:** [www.wpafb.af.mil/library/factsheets/factsheet.asp?id=5809](http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=5809)

**Air Force Tech Transfer:** [www.wpafb.af.mil/t2/](http://www.wpafb.af.mil/t2/)

**Defense Innovation Marketplace:** [www.defenseinnovationmarketplace.mil](http://www.defenseinnovationmarketplace.mil)

**Federal Government Business Opportunities:** [www.fbo.gov](http://www.fbo.gov)

**Proposal Submissions:** <https://sbir.defensebusiness.org>

[HTTPS://WWW.AFSBIRSTTR.AF.MIL](https://www.afsbirsttr.af.mil) | [AFSBIRSTTR-INFO@US.AF.MIL](mailto:AFSBIRSTTR-INFO@US.AF.MIL)

