

**DoD 2018.2 SBIR Topics**

**DoD 2018.B STTR Topics**

Pre-release opens April 20, 2018

Open discussion with TPOCs through May 21, 2018

SITIS Q&A Closes June 6, 2018

Solicitation opens May 22 and proposals due June 20, 2018 at 8:00 p.m. ET

For assistance in searching for appropriate topics and preparing competitive proposals, contact BBCetc at [info@bbcetc.com](mailto:info@bbcetc.com) or 734-930-9741. And be sure to check out our [recorded DOD webinars](http://www.bbcetc.com/training/purchase-webinars/).

**Notable Changes for the 2018.2/2018.B BAA**

1. Beginning with the SBIR 18.2 BAA cycle, a new Volume 5, Supporting Documents, has been added.

* This new Volume 5 is optional and is provided for small business to submit additional documentation to support the Technical Volume (Volume 2) and the Cost Volume (Volume 3).
* Volume 5 is available when submitting Phase I and Phase II proposals.
* Please refer to the [Component-specific Instructions](https://sbir.defensebusiness.org/topics/instructions) for your topics of interest to see how each program office will be handling the Volume 5 information.
* Note: The Army and USSOCOM SBIR Programs will not be using any of the information in Volume 5 during the evaluation.

2. Note that Air Force has special pricing as stated in the description for topics [AF182-001](https://sbir.defensebusiness.org/topics?topicId=29425), [AF182-002](https://sbir.defensebusiness.org/topics?topicId=29426), [AF182-003](https://sbir.defensebusiness.org/topics?topicId=29427), [AF182-004](https://sbir.defensebusiness.org/topics?topicId=29428), [AF182-005](https://sbir.defensebusiness.org/topics?topicId=29429), and [AF182-006](https://sbir.defensebusiness.org/topics?topicId=29430) – AF will accept Phase I proposals up to $50,000 with a technical period of performance of two months and a final reporting period of one month.

**DOD SBIR 2018.2 and STTR 2018.B Topics**

**[Solicitation link](https://sbir.defensebusiness.org/topics)**

**Army SBIR**

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| [A18-110](https://sbir.defensebusiness.org/topics?topicId=29333) |  | [Unified Behavioral Descriptions for AADL Architectural Models](https://sbir.defensebusiness.org/topics?topicId=29333) |  |
| [A18-111](https://sbir.defensebusiness.org/topics?topicId=29334) |  | [Robust Transport Service Aligned to the FACE Technical Standard 3.0](https://sbir.defensebusiness.org/topics?topicId=29334) |  |
| [A18-112](https://sbir.defensebusiness.org/topics?topicId=29336) |  | [Thin Film Multi-source Energy Harvester for Unmanned Aerial Vehicles](https://sbir.defensebusiness.org/topics?topicId=29336) |  |
| [A18-113](https://sbir.defensebusiness.org/topics?topicId=29340) |  | [Streaming Motion Imagery Alternatives](https://sbir.defensebusiness.org/topics?topicId=29340) |  |
| [A18-114](https://sbir.defensebusiness.org/topics?topicId=29343) |  | [Radio Frequency Mobile Signature Capability](https://sbir.defensebusiness.org/topics?topicId=29343) |  |
| [A18-115](https://sbir.defensebusiness.org/topics?topicId=29346) |  | [Optimized Matrices for Low-Cost Composites with Tailored Interphases](https://sbir.defensebusiness.org/topics?topicId=29346) |  |
| [A18-116](https://sbir.defensebusiness.org/topics?topicId=29347) |  | [Software Solutions for True Random Number Generation](https://sbir.defensebusiness.org/topics?topicId=29347) |  |
| [A18-117](https://sbir.defensebusiness.org/topics?topicId=29348) |  | [Chaotic Source for Spread-Spectrum Radar and Communication](https://sbir.defensebusiness.org/topics?topicId=29348) |  |
| [A18-118](https://sbir.defensebusiness.org/topics?topicId=29349) |  | [Automated Fire Control System (AFCS)](https://sbir.defensebusiness.org/topics?topicId=29349) |  |
| [A18-119](https://sbir.defensebusiness.org/topics?topicId=29350) |  | [MultiModal Soldier-Worn Threat Detection System](https://sbir.defensebusiness.org/topics?topicId=29350) |  |
| [A18-120](https://sbir.defensebusiness.org/topics?topicId=29351) |  | [Proactive Radar Resource Management with Adaptive Arrays](https://sbir.defensebusiness.org/topics?topicId=29351) |  |
| [A18-121](https://sbir.defensebusiness.org/topics?topicId=29352) |  | [Small Target 3D Position Tracking in Large Airborne Swarms](https://sbir.defensebusiness.org/topics?topicId=29352) |  |
| [A18-122](https://sbir.defensebusiness.org/topics?topicId=29353) |  | [Direct Blood Volume Analyzer for Improvement of Combat Casualty Care](https://sbir.defensebusiness.org/topics?topicId=29353) |  |
| [A18-123](https://sbir.defensebusiness.org/topics?topicId=29354) |  | [Emergency “just-in-time” Delivery and Recovery of Whole Blood via Unmanned Aerial Systems (UAS)](https://sbir.defensebusiness.org/topics?topicId=29354) |  |
| [A18-124](https://sbir.defensebusiness.org/topics?topicId=29356) |  | [Open Systems Computing Hardware for Aerospace Application](https://sbir.defensebusiness.org/topics?topicId=29356) |  |
| [A18-125](https://sbir.defensebusiness.org/topics?topicId=29357) |  | [H.265 Video Encoding Analysis](https://sbir.defensebusiness.org/topics?topicId=29357) |  |
| [A18-126](https://sbir.defensebusiness.org/topics?topicId=29358) |  | [Novel, Localized Intrusion Detection System (IDS) for the vehicle control area network (CAN) bus](https://sbir.defensebusiness.org/topics?topicId=29358) |  |
| [A18-127](https://sbir.defensebusiness.org/topics?topicId=29360) |  | [Biometric Enhancement of Army Standard Force Protection Sensors](https://sbir.defensebusiness.org/topics?topicId=29360) |  |
| [A18-128](https://sbir.defensebusiness.org/topics?topicId=29362) |  | [Common Track Protocol (CTP) Adaptive Translator Module](https://sbir.defensebusiness.org/topics?topicId=29362) |  |
| [A18-129](https://sbir.defensebusiness.org/topics?topicId=29373) |  | [Lightweight and Compact Beam Steering System for Tactical High Energy Lasers Systems](https://sbir.defensebusiness.org/topics?topicId=29373) |  |
| [A18-130](https://sbir.defensebusiness.org/topics?topicId=29375) |  | [Fine Tracking and Aimpoint Maintenance for Phased Array High Energy Lasers](https://sbir.defensebusiness.org/topics?topicId=29375) |  |

**ARMY STTR**

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| [A18B-T001](https://sbir.defensebusiness.org/topics?topicId=29355) | |  | | [Provably Unclonable Functions on Re-configurable Devices](https://sbir.defensebusiness.org/topics?topicId=29355) | |
| [A18B-T002](https://sbir.defensebusiness.org/topics?topicId=29359) | |  | | [W-Band RF Instrumentation](https://sbir.defensebusiness.org/topics?topicId=29359) | |
| [A18B-T003](https://sbir.defensebusiness.org/topics?topicId=29361) | |  | | [Additive Manufacturing Feedstock Designed for Uniform Printing of Metallic Builds](https://sbir.defensebusiness.org/topics?topicId=29361) | |
| [A18B-T004](https://sbir.defensebusiness.org/topics?topicId=29363) | |  | | [Carbon Nanotube Based Monolithic Millimeter-wave Integrated Circuits](https://sbir.defensebusiness.org/topics?topicId=29363) | |
| [A18B-T005](https://sbir.defensebusiness.org/topics?topicId=29364) | |  | | [Diffusiophoresis for Water Purification](https://sbir.defensebusiness.org/topics?topicId=29364) | |
| [A18B-T006](https://sbir.defensebusiness.org/topics?topicId=29365) | |  | | [Deep Ultraviolet Light Sources for Water Purification and Surface Sterilization](https://sbir.defensebusiness.org/topics?topicId=29365) | |
| [A18B-T007](https://sbir.defensebusiness.org/topics?topicId=29366) | |  | | [Resource Sharing Platforms for Improved Operational Logistics](https://sbir.defensebusiness.org/topics?topicId=29366) | |
| [A18B-T008](https://sbir.defensebusiness.org/topics?topicId=29367) | |  | | [Effective Human Teaming Supported by Social Sensing](https://sbir.defensebusiness.org/topics?topicId=29367) | |
| [A18B-T009](https://sbir.defensebusiness.org/topics?topicId=29368) | |  | | [Wavelet-Based Adaptive Antenna Systems](https://sbir.defensebusiness.org/topics?topicId=29368) | |
| [A18B-T010](https://sbir.defensebusiness.org/topics?topicId=29369) | |  | | [Mitigation of Ransomware](https://sbir.defensebusiness.org/topics?topicId=29369) | |
| [A18B-T011](https://sbir.defensebusiness.org/topics?topicId=29370) | |  | | [Software Tools for Scalable Quantum Validation and Verification](https://sbir.defensebusiness.org/topics?topicId=29370) | |
| [A18B-T012](https://sbir.defensebusiness.org/topics?topicId=29371) | |  | | [Hybrid Nano-Bio-Electronic Odor Detector](https://sbir.defensebusiness.org/topics?topicId=29371) | |
| [A18B-T013](https://sbir.defensebusiness.org/topics?topicId=29372) | |  | | [Disablement of Vehicles and/or Remote Weapon Stations in an Urban Environment](https://sbir.defensebusiness.org/topics?topicId=29372) | |
| [A18B-T014](https://sbir.defensebusiness.org/topics?topicId=29374) | |  | | [Robust High-Performance Laser Sources for Scalable Quantum Technology](https://sbir.defensebusiness.org/topics?topicId=29374) | |
| [A18B-T015](https://sbir.defensebusiness.org/topics?topicId=29376) | |  | | [Microporous Flexible Electrodes for Lithium Metal Secondary Batteries](https://sbir.defensebusiness.org/topics?topicId=29376) | |
| [A18B-T016](https://sbir.defensebusiness.org/topics?topicId=29377) | |  | | [Cell-Free Screening System for Genetically-Derived Small Molecule Biosensors](https://sbir.defensebusiness.org/topics?topicId=29377) | |
| [A18B-T017](https://sbir.defensebusiness.org/topics?topicId=29378) | |  | | [Millimeter-wave modulators for sparse aperture imagers](https://sbir.defensebusiness.org/topics?topicId=29378) | |
| [A18B-T018](https://sbir.defensebusiness.org/topics?topicId=29379) | |  | | [Rapid Prototyped 3D Printed Filters](https://sbir.defensebusiness.org/topics?topicId=29379) | |
| [A18B-T019](https://sbir.defensebusiness.org/topics?topicId=29380) | |  | | [Novel Manufacturing Techniques for Polymer/Metal-Organic Framework Systems](https://sbir.defensebusiness.org/topics?topicId=29380) | |
| [A18B-T020](https://sbir.defensebusiness.org/topics?topicId=29381) | |  | | [Sample Preparation Free Consumables for Ultra-Sensitive Chemical and Biological Detection from Complex Environmental and Clinical Matrices Compatible for Paper Spray Ionization Mass Spectrometry](https://sbir.defensebusiness.org/topics?topicId=29381) | |
| [A18B-T021](https://sbir.defensebusiness.org/topics?topicId=29382) | |  | | [Large Scale Nano-Crystalline Coatings For Penetration Resistance](https://sbir.defensebusiness.org/topics?topicId=29382) | |
| [A18B-T022](https://sbir.defensebusiness.org/topics?topicId=29383) | |  | | [Developing Long-Term Malarial Chemoprophylactic Drug Releasing Implant](https://sbir.defensebusiness.org/topics?topicId=29383) | |
| [A18B-T023](https://sbir.defensebusiness.org/topics?topicId=29384) | |  | | [Development of Radar Absorbent Textile Cloth for Soldier Uniforms](https://sbir.defensebusiness.org/topics?topicId=29384) | |
| [A18B-T024](https://sbir.defensebusiness.org/topics?topicId=29385) | |  | | [Novel Method for Functionalizing Fibers and Textiles](https://sbir.defensebusiness.org/topics?topicId=29385) | |
| [A18B-T025](https://sbir.defensebusiness.org/topics?topicId=29386) | |  | | [Squad Multipurpose Equipment Transporter (SMET) Tele-Operation Feedback System](https://sbir.defensebusiness.org/topics?topicId=29386) | |

**Air Force SBIR**

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| [AF182-001](https://sbir.defensebusiness.org/topics?topicId=29425) | [Commercial Solutions for Weather Forecasting](https://sbir.defensebusiness.org/topics?topicId=29425) |
| [AF182-002](https://sbir.defensebusiness.org/topics?topicId=29426) | [Innovative Position Navigation and Timing](https://sbir.defensebusiness.org/topics?topicId=29426) |
| [AF182-003](https://sbir.defensebusiness.org/topics?topicId=29427) | [Future Counter UAS Technology Options](https://sbir.defensebusiness.org/topics?topicId=29427) |
| [AF182-004](https://sbir.defensebusiness.org/topics?topicId=29428) | [Future Logistics and Supply Chain Options](https://sbir.defensebusiness.org/topics?topicId=29428) |
| [AF182-005](https://sbir.defensebusiness.org/topics?topicId=29429) | [Open Call for Innovative Defense-Related Dual-Purpose Technologies/Solutions](https://sbir.defensebusiness.org/topics?topicId=29429) |
| [AF182-006](https://sbir.defensebusiness.org/topics?topicId=29430) | [Human-Machine Teaming in Data Processing, Exploitation, and Dissemination -- a Technology Accelerator](https://sbir.defensebusiness.org/topics?topicId=29430) |
| [AF182-007](https://sbir.defensebusiness.org/topics?topicId=29431) | [Field of Light Display for Air, Space, and Cyber Battle Management](https://sbir.defensebusiness.org/topics?topicId=29431) |
| [AF182-010](https://sbir.defensebusiness.org/topics?topicId=29434) | [Selectable Cutting and Fragmentation of Damaged Runway Surfaces](https://sbir.defensebusiness.org/topics?topicId=29434) |
| [AF182-011](https://sbir.defensebusiness.org/topics?topicId=29435) | [AFFF Replacement](https://sbir.defensebusiness.org/topics?topicId=29435) |
| [AF182-012](https://sbir.defensebusiness.org/topics?topicId=29436) | [Autonomous Measurement and Reporting of Fluorocarbons in Groundwater](https://sbir.defensebusiness.org/topics?topicId=29436) |
| [AF182-013](https://sbir.defensebusiness.org/topics?topicId=29437) | [Aircraft Brake Titanium Torque Tube Heat Damage Nondestructive Inspection](https://sbir.defensebusiness.org/topics?topicId=29437) |
| [AF182-014](https://sbir.defensebusiness.org/topics?topicId=29438) | [Non-Destructive Testing for Landing Gear Applications](https://sbir.defensebusiness.org/topics?topicId=29438) |
| [AF182-015](https://sbir.defensebusiness.org/topics?topicId=29439) | [Resilient Design and Operation of Complex Manufacturing](https://sbir.defensebusiness.org/topics?topicId=29439) |
| [AF182-016](https://sbir.defensebusiness.org/topics?topicId=29440) | [Predictive Analytics for Optimal Repair Determination](https://sbir.defensebusiness.org/topics?topicId=29440) |
| [AF182-017](https://sbir.defensebusiness.org/topics?topicId=29441) | [Integrated Scan to Print 3-D Modeling System](https://sbir.defensebusiness.org/topics?topicId=29441) |
| [AF182-018](https://sbir.defensebusiness.org/topics?topicId=29442) | [Additive Manufacturing Capability for Advanced, Embedded Temperature and Heat Flux Sensors](https://sbir.defensebusiness.org/topics?topicId=29442) |
| [AF182-019](https://sbir.defensebusiness.org/topics?topicId=29443) | [Machine Learning applied to Measurement Assessment](https://sbir.defensebusiness.org/topics?topicId=29443) |
| [AF182-020](https://sbir.defensebusiness.org/topics?topicId=29444) | [Nonintrusive Airflow Measurement System](https://sbir.defensebusiness.org/topics?topicId=29444) |
| [AF182-021](https://sbir.defensebusiness.org/topics?topicId=29445) | [3D Additive Manufacturing Hybrid-Material Tiles](https://sbir.defensebusiness.org/topics?topicId=29445) |
| [AF182-022](https://sbir.defensebusiness.org/topics?topicId=29446) | [High-Response Pressure Transducers for Hypersonic Vehicle Testing](https://sbir.defensebusiness.org/topics?topicId=29446) |
| [AF182-023](https://sbir.defensebusiness.org/topics?topicId=29447) | [External Drum Dynamometer Runway Texture Coating](https://sbir.defensebusiness.org/topics?topicId=29447) |
| [AF182-024](https://sbir.defensebusiness.org/topics?topicId=29448) | [Time-Resolved, 3D, Non-Destructive Imaging for Solid Rocket Motors](https://sbir.defensebusiness.org/topics?topicId=29448) |
| [AF182-025](https://sbir.defensebusiness.org/topics?topicId=29449) | [Egress Manikin TSPI and Orientation System](https://sbir.defensebusiness.org/topics?topicId=29449) |
| [AF182-026](https://sbir.defensebusiness.org/topics?topicId=29450) | [Aeroelastic Vulnerability Assessment](https://sbir.defensebusiness.org/topics?topicId=29450) |
| [AF182-027](https://sbir.defensebusiness.org/topics?topicId=29451) | [Stable, Programmable, Solid State Solar Simulator for Long Duration Testing](https://sbir.defensebusiness.org/topics?topicId=29451) |
| [AF182-028](https://sbir.defensebusiness.org/topics?topicId=29452) | [Parallel GPU Processing for Large Scale State Filters](https://sbir.defensebusiness.org/topics?topicId=29452) |
| [AF182-029](https://sbir.defensebusiness.org/topics?topicId=29453) | [Scientific Data Server](https://sbir.defensebusiness.org/topics?topicId=29453) |
| [AF182-030](https://sbir.defensebusiness.org/topics?topicId=29454) | [Airborne Infrared Signature/Atmospheric Measurement System](https://sbir.defensebusiness.org/topics?topicId=29454) |
| [AF182-031](https://sbir.defensebusiness.org/topics?topicId=29455) | [Highly Targeted Non-toxic Predator Aversion Training Devices](https://sbir.defensebusiness.org/topics?topicId=29455) |
| [AF182-032](https://sbir.defensebusiness.org/topics?topicId=29456) | [Millimeter-Wave Video Synthetic Aperture Radar (MMW Vid-SAR)](https://sbir.defensebusiness.org/topics?topicId=29456) |
| [AF182-033](https://sbir.defensebusiness.org/topics?topicId=29457) | [Directed Energy Decision Aids](https://sbir.defensebusiness.org/topics?topicId=29457) |
| [AF182-034](https://sbir.defensebusiness.org/topics?topicId=29458) | [Materials for Improved Vacuum Performance in High Power Electromagnetic (HPEM) Source Devices](https://sbir.defensebusiness.org/topics?topicId=29458) |
| [AF182-035](https://sbir.defensebusiness.org/topics?topicId=29459) | [Carbon nanotube fiber cathode for high power electromagnetics applications](https://sbir.defensebusiness.org/topics?topicId=29459) |
| [AF182-036](https://sbir.defensebusiness.org/topics?topicId=29460) | [Integrating Sphere at Microwave Frequencies](https://sbir.defensebusiness.org/topics?topicId=29460) |
| [AF182-037](https://sbir.defensebusiness.org/topics?topicId=29461) | [Correlation and Data Processing Algorithms for Stereo viewing with optical sensors](https://sbir.defensebusiness.org/topics?topicId=29461) |
| [AF182-038](https://sbir.defensebusiness.org/topics?topicId=29462) | [Analysis and prediction of FSO coverage within the battlespace (FSO-PLAN)](https://sbir.defensebusiness.org/topics?topicId=29462) |
| [AF182-039](https://sbir.defensebusiness.org/topics?topicId=29463) | [Detection and Intercept of FSO Interplane Communications Using Long-distance Transmission (DIFICULT)](https://sbir.defensebusiness.org/topics?topicId=29463) |
| [AF182-040](https://sbir.defensebusiness.org/topics?topicId=29464) | [Referential Positioning of Non-Selective Availability Anti-Spoofing Module (SSSM) Capable Tactical Radios (RePTAC)](https://sbir.defensebusiness.org/topics?topicId=29464) |
| [AF182-041](https://sbir.defensebusiness.org/topics?topicId=29465) | [Militarized Direct RF Conversion Software Defined Radio (SDR)](https://sbir.defensebusiness.org/topics?topicId=29465) |
| [AF182-042](https://sbir.defensebusiness.org/topics?topicId=29466) | [Secure, wireless high-frequency communications network architecture for point-to-point surface communications](https://sbir.defensebusiness.org/topics?topicId=29466) |
| [AF182-043](https://sbir.defensebusiness.org/topics?topicId=29467) | [Hypotheses Management for Event Prediction](https://sbir.defensebusiness.org/topics?topicId=29467) |
| [AF182-044](https://sbir.defensebusiness.org/topics?topicId=29468) | [Mission Information Resilience and Provisioning](https://sbir.defensebusiness.org/topics?topicId=29468) |
| [AF182-045](https://sbir.defensebusiness.org/topics?topicId=29469) | [Human-Centered Workflows for Interacting with Automated Processing Systems](https://sbir.defensebusiness.org/topics?topicId=29469) |
| [AF182-046](https://sbir.defensebusiness.org/topics?topicId=29470) | [Software tool for cryptographic algorithms on FPGA](https://sbir.defensebusiness.org/topics?topicId=29470) |
| [AF182-047](https://sbir.defensebusiness.org/topics?topicId=29471) | [Powered Rollers for Cargo Aircraft](https://sbir.defensebusiness.org/topics?topicId=29471) |
| [AF182-048](https://sbir.defensebusiness.org/topics?topicId=29472) | [Automated Pallet Planning Tools](https://sbir.defensebusiness.org/topics?topicId=29472) |
| [AF182-049](https://sbir.defensebusiness.org/topics?topicId=29473) | [Modular Approach to Adding Cooling Capacity](https://sbir.defensebusiness.org/topics?topicId=29473) |
| [AF182-050](https://sbir.defensebusiness.org/topics?topicId=29474) | [Improved Cargo Pallet Restraint System](https://sbir.defensebusiness.org/topics?topicId=29474) |
| [AF182-051](https://sbir.defensebusiness.org/topics?topicId=29475) | [Ballistic-Resistant, Wearable Battery Based on Shear Thickening Electrolyte](https://sbir.defensebusiness.org/topics?topicId=29475) |
| [AF182-052](https://sbir.defensebusiness.org/topics?topicId=29476) | [Diminishing Manufacturing Source (DMS) Acquisition and Sustainment Tool](https://sbir.defensebusiness.org/topics?topicId=29476) |
| [AF182-053](https://sbir.defensebusiness.org/topics?topicId=29477) | [Mask-Free Thermal Spray Module](https://sbir.defensebusiness.org/topics?topicId=29477) |
| [AF182-054](https://sbir.defensebusiness.org/topics?topicId=29478) | [Lithium-ion (Li-ion) Battery Thermal Runaway Propagation and Containment Solutions](https://sbir.defensebusiness.org/topics?topicId=29478) |
| [AF182-055](https://sbir.defensebusiness.org/topics?topicId=29479) | [Fast Activating Lithium or Lithium-ion (Li-ion) Reserve Battery](https://sbir.defensebusiness.org/topics?topicId=29479) |
| [AF182-056](https://sbir.defensebusiness.org/topics?topicId=29480) | [Multi-Phase Fuel Injection Modeling for Scramjet Applications](https://sbir.defensebusiness.org/topics?topicId=29480) |
| [AF182-057](https://sbir.defensebusiness.org/topics?topicId=29481) | [Surrogate Model for Jitter Estimation in Preliminary Design of Optical Turret Installations](https://sbir.defensebusiness.org/topics?topicId=29481) |
| [AF182-058](https://sbir.defensebusiness.org/topics?topicId=29482) | [Technology Enhancement for Small Recuperated Turboalternator: Thrust Management Approaches](https://sbir.defensebusiness.org/topics?topicId=29482) |
| [AF182-059](https://sbir.defensebusiness.org/topics?topicId=29483) | [Advanced Materials and Coatings for Unmanned Aerial System (UAS) Propulsion](https://sbir.defensebusiness.org/topics?topicId=29483) |
| [AF182-060](https://sbir.defensebusiness.org/topics?topicId=29485) | [Novel Engine Cycles for Upper Stage Liquid Rocket Engines](https://sbir.defensebusiness.org/topics?topicId=29485) |
| [AF182-061](https://sbir.defensebusiness.org/topics?topicId=29486) | [Reliable High Performance Microcontroller for Extreme Temperatures](https://sbir.defensebusiness.org/topics?topicId=29486) |
| [AF182-062](https://sbir.defensebusiness.org/topics?topicId=29487) | [Analysis Tool to Predict the Behavior of Bolted Composite/Metallic Hybrid Joints with Many Fasteners](https://sbir.defensebusiness.org/topics?topicId=29487) |
| [AF182-063](https://sbir.defensebusiness.org/topics?topicId=29488) | [Rotating Detonation Engine for Rocket Propulsion](https://sbir.defensebusiness.org/topics?topicId=29488) |
| [AF182-064](https://sbir.defensebusiness.org/topics?topicId=29489) | [Pressure-Gain Combustion Turbopump Drive System](https://sbir.defensebusiness.org/topics?topicId=29489) |
| [AF182-065](https://sbir.defensebusiness.org/topics?topicId=29490) | [Life Time Improvements for Electric Thruster Technologies](https://sbir.defensebusiness.org/topics?topicId=29490) |
| [AF182-066](https://sbir.defensebusiness.org/topics?topicId=29491) | [Next Generation Small Satellite Technologies](https://sbir.defensebusiness.org/topics?topicId=29491) |
| [AF182-067](https://sbir.defensebusiness.org/topics?topicId=29492) | [Accurate Time Transfers in Crosslink / Communications Networks](https://sbir.defensebusiness.org/topics?topicId=29492) |
| [AF182-068](https://sbir.defensebusiness.org/topics?topicId=29493) | [Midwave/Longwave Infrared Detector with Electronically-Tunable Narrowband Spectral Response](https://sbir.defensebusiness.org/topics?topicId=29493) |
| [AF182-069](https://sbir.defensebusiness.org/topics?topicId=29494) | [Solar Cell Bypass and String Blocking Diode Development](https://sbir.defensebusiness.org/topics?topicId=29494) |
| [AF182-070](https://sbir.defensebusiness.org/topics?topicId=29495) | [A Standard Stand-Alone Space Environment Workbench](https://sbir.defensebusiness.org/topics?topicId=29495) |
| [AF182-071](https://sbir.defensebusiness.org/topics?topicId=29496) | [Sensor to Establish the Initial Orbit of Deployed Satellites](https://sbir.defensebusiness.org/topics?topicId=29496) |
| [AF182-072](https://sbir.defensebusiness.org/topics?topicId=29497) | [Inertial Measurement Unit (IMU) Navigation for Spacecraft, in Order to Augment GPS Position and Navigation](https://sbir.defensebusiness.org/topics?topicId=29497) |
| [AF182-073](https://sbir.defensebusiness.org/topics?topicId=29498) | [Processes for qualification of Additively Manufactured launch and space vehicle components](https://sbir.defensebusiness.org/topics?topicId=29498) |
| [AF182-074](https://sbir.defensebusiness.org/topics?topicId=29499) | [Standardized scalable components and structures for ESPA class and below](https://sbir.defensebusiness.org/topics?topicId=29499) |
| [AF182-075](https://sbir.defensebusiness.org/topics?topicId=29500) | [OPIR Radiometric Calibration](https://sbir.defensebusiness.org/topics?topicId=29500) |
| [AF182-076](https://sbir.defensebusiness.org/topics?topicId=29501) | [Non-traditional Sensor Data Confidence](https://sbir.defensebusiness.org/topics?topicId=29501) |
| [AF182-077](https://sbir.defensebusiness.org/topics?topicId=29502) | [Legacy Embedded Weapon System Cyber Microvisor](https://sbir.defensebusiness.org/topics?topicId=29502) |
| [AF182-078](https://sbir.defensebusiness.org/topics?topicId=29503) | [Adapting UAV/UAS Cyber Security Algorithms to Small Satellites](https://sbir.defensebusiness.org/topics?topicId=29503) |
| [AF182-079](https://sbir.defensebusiness.org/topics?topicId=29504) | [Integrating Performance Enhanced Proxies with Bundle Protocols over High Assurance Internet Protocol Encryptions](https://sbir.defensebusiness.org/topics?topicId=29504) |
| [AF182-080](https://sbir.defensebusiness.org/topics?topicId=29505) | [Standardized Manipulator Fixture for Small Satellites (1112)](https://sbir.defensebusiness.org/topics?topicId=29505) |
| [AF182-081](https://sbir.defensebusiness.org/topics?topicId=29506) | [Smart On-Board Satellite AGC Loop with Anti-jamming Capability for Spread Spectrum Frequency Hopping Systems](https://sbir.defensebusiness.org/topics?topicId=29506) |
| [AF182-082](https://sbir.defensebusiness.org/topics?topicId=29507) | [Simple and Lightweight On-Orbit Servicing Components](https://sbir.defensebusiness.org/topics?topicId=29507) |
| [AF182-083](https://sbir.defensebusiness.org/topics?topicId=29508) | [Spacecraft Dead Bus Recovery (Li-ion Based)](https://sbir.defensebusiness.org/topics?topicId=29508) |
| [AF182-084](https://sbir.defensebusiness.org/topics?topicId=29510) | [Microstructurally-Based Constitutive Models for Composite Energetic Materials](https://sbir.defensebusiness.org/topics?topicId=29510) |
| [AF182-085](https://sbir.defensebusiness.org/topics?topicId=29511) | [Real-time Single Chip Target Acquisition and Tracking for sUAV Gimbal](https://sbir.defensebusiness.org/topics?topicId=29511) |
| [AF182-086](https://sbir.defensebusiness.org/topics?topicId=29512) | [Integrating the ALE3D Hydrocode with MEVA and Endgame Framework](https://sbir.defensebusiness.org/topics?topicId=29512) |
| [AF182-087](https://sbir.defensebusiness.org/topics?topicId=29513) | [High lethality, smaller form factor ordnance package](https://sbir.defensebusiness.org/topics?topicId=29513) |
| [AF182-088](https://sbir.defensebusiness.org/topics?topicId=29514) | [High Operating Temperature (HOT) Mid-Wave Infrared (MWIR) Detectors for IR Seekers](https://sbir.defensebusiness.org/topics?topicId=29514) |
| [AF182-089](https://sbir.defensebusiness.org/topics?topicId=29509) | [Evolutionary Design Optimization for Guided Weapon Concepts Modeling and Simulation](https://sbir.defensebusiness.org/topics?topicId=29509) |
| [AF182-090](https://sbir.defensebusiness.org/topics?topicId=29515) | [Digital Processing Inspection Verification for the Production Environment](https://sbir.defensebusiness.org/topics?topicId=29515) |
| [AF182-091](https://sbir.defensebusiness.org/topics?topicId=29516) | [Remote Monitoring of Sensors during Composite Curing](https://sbir.defensebusiness.org/topics?topicId=29516) |
| [AF182-092](https://sbir.defensebusiness.org/topics?topicId=29517) | [Galvanic Modeling Trade Tool for Current/Future Tankers](https://sbir.defensebusiness.org/topics?topicId=29517) |
| [AF182-093](https://sbir.defensebusiness.org/topics?topicId=29518) | [Increasing the Flexibility and Performance of Laser Bond Inspection System Delivery](https://sbir.defensebusiness.org/topics?topicId=29518) |
| [AF182-094](https://sbir.defensebusiness.org/topics?topicId=29519) | [Affordable, Durable, Electrically Conductive Coating or Material Solution for Silver Paint Replacement on Advanced Aircraft](https://sbir.defensebusiness.org/topics?topicId=29519) |
| [AF182-095](https://sbir.defensebusiness.org/topics?topicId=29520) | [Hardening Technologies for Air Platforms and Cruise Missile Systems](https://sbir.defensebusiness.org/topics?topicId=29520) |
| [AF182-096](https://sbir.defensebusiness.org/topics?topicId=29521) | [Develop Capability to Measure the Health of High Impedance Resistive Materials](https://sbir.defensebusiness.org/topics?topicId=29521) |
| [AF182-097](https://sbir.defensebusiness.org/topics?topicId=29522) | [Carbon-Carbon Manufacturing Process Modeling](https://sbir.defensebusiness.org/topics?topicId=29522) |
| [AF182-098](https://sbir.defensebusiness.org/topics?topicId=29523) | [Modeling Tools for the Drilling of Polymer Matrix Composites (PMCs)](https://sbir.defensebusiness.org/topics?topicId=29523) |
| [AF182-099](https://sbir.defensebusiness.org/topics?topicId=29524) | [Low Cost, Agile Methods for Tooling for Manufacturing Composite Parts](https://sbir.defensebusiness.org/topics?topicId=29524) |
| [AF182-100](https://sbir.defensebusiness.org/topics?topicId=29525) | [Coupled Infusion-Cure Modeling Simulation for Low-Cost Composite Parts for Process Defects and Geometric Conformity](https://sbir.defensebusiness.org/topics?topicId=29525) |
| [AF182-101](https://sbir.defensebusiness.org/topics?topicId=29526) | [Airborne Optical System (Flying Telescope)](https://sbir.defensebusiness.org/topics?topicId=29526) |
| [AF182-102](https://sbir.defensebusiness.org/topics?topicId=29527) | [Tools to Enable Systematic Testing of Avionics Cyber Security](https://sbir.defensebusiness.org/topics?topicId=29527) |
| [AF182-103](https://sbir.defensebusiness.org/topics?topicId=29528) | [Extended Weather Measurements in Support of Remotely Piloted Aircraft](https://sbir.defensebusiness.org/topics?topicId=29528) |
| [AF182-104](https://sbir.defensebusiness.org/topics?topicId=29529) | [In-Flight Rapid Cyber Diagnostics and Response for Mission Assurance](https://sbir.defensebusiness.org/topics?topicId=29529) |
| [AF182-105](https://sbir.defensebusiness.org/topics?topicId=29530) | [Photonic Quantizer for Use in Photonic Analog to Digital Converters (pADCs)](https://sbir.defensebusiness.org/topics?topicId=29530) |
| [AF182-106](https://sbir.defensebusiness.org/topics?topicId=29531) | [High Dynamic Range (HDR) Improvements for Synthetic Aperature Radar (SAR)/Ground Moving Target Indicator (GMTI) and Passive/Bistatic Radar](https://sbir.defensebusiness.org/topics?topicId=29531) |
| [AF182-107](https://sbir.defensebusiness.org/topics?topicId=29532) | [Develop Small Pitch ROIC Multifunction LADAR Receiver](https://sbir.defensebusiness.org/topics?topicId=29532) |
| [AF182-108](https://sbir.defensebusiness.org/topics?topicId=29533) | [Compact High Channel Count High Speed Digitizing, Processing, and Storage System for Synthetic Aperture Ladar (SAL) and Synthetic Aperture Radar (SAR)](https://sbir.defensebusiness.org/topics?topicId=29533) |
| [AF182-109](https://sbir.defensebusiness.org/topics?topicId=29534) | [Conformal Aperture Non-Mechanical Beam Steering (NMBS) for Attritable Platform](https://sbir.defensebusiness.org/topics?topicId=29534) |
| [AF182-110](https://sbir.defensebusiness.org/topics?topicId=29484) | [Target ID and Radar Backtracking of Anti-Aircraft Projectiles](https://sbir.defensebusiness.org/topics?topicId=29484) |
| [AF182-111](https://sbir.defensebusiness.org/topics?topicId=29535) | [V-Band Solid-State Power Amplifiers for SATCOM Downlinks](https://sbir.defensebusiness.org/topics?topicId=29535) |
| [AF182-112](https://sbir.defensebusiness.org/topics?topicId=29536) | [Advanced Receiver Autonomous Integrity Monitoring (ARAIM) algorithm development, demonstration, and signal trust considerations](https://sbir.defensebusiness.org/topics?topicId=29536) |
| [AF182-113](https://sbir.defensebusiness.org/topics?topicId=29537) | [Quad Band GNSS Antenna Electronics for Controlled Reception Pattern Antenna System](https://sbir.defensebusiness.org/topics?topicId=29537) |
| [AF182-114](https://sbir.defensebusiness.org/topics?topicId=29538) | [Low-SWaP-C Antenna Electronics for GPS L1/L2/L5 Controlled Radiation Pattern Antenna System](https://sbir.defensebusiness.org/topics?topicId=29538) |
| [AF182-115](https://sbir.defensebusiness.org/topics?topicId=29539) | [Extremely Low Cost Sensors for Small Spacecraft](https://sbir.defensebusiness.org/topics?topicId=29539) |
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**Air Force STTR**

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| [AF18B-T001](https://sbir.defensebusiness.org/topics?topicId=29402) | [A Software Toolkit for Predicting the Neural Signatures of Cognitive States](https://sbir.defensebusiness.org/topics?topicId=29402) | |
| [AF18B-T002](https://sbir.defensebusiness.org/topics?topicId=29403) | [Self-Learned Agents for Collective Analysis of Human Activities and Events in Aerial Videos](https://sbir.defensebusiness.org/topics?topicId=29403) | |
| [AF18B-T003](https://sbir.defensebusiness.org/topics?topicId=29404) | [Electronically Dimmable Eye Protection Devices (EDEPD)](https://sbir.defensebusiness.org/topics?topicId=29404) | |
| [AF18B-T004](https://sbir.defensebusiness.org/topics?topicId=29405) | [Efficient and Faster Methods for Performing General Wave-Optics Propagation](https://sbir.defensebusiness.org/topics?topicId=29405) | |
| [AF18B-T005](https://sbir.defensebusiness.org/topics?topicId=29398) | [Attenuation Tracking for Frequencies from 3 kHz to 60 GHz](https://sbir.defensebusiness.org/topics?topicId=29398) | |
| [AF18B-T006](https://sbir.defensebusiness.org/topics?topicId=29406) | [Carbon Nanotube FET Modeling and RF circuits](https://sbir.defensebusiness.org/topics?topicId=29406) | |
| [AF18B-T007](https://sbir.defensebusiness.org/topics?topicId=29407) | [Contour Based Image Segmentation](https://sbir.defensebusiness.org/topics?topicId=29407) | |
| [AF18B-T008](https://sbir.defensebusiness.org/topics?topicId=29399) | [Clearance of Aircraft Stores Carriage under Uncertainty](https://sbir.defensebusiness.org/topics?topicId=29399) | |
| [AF18B-T009](https://sbir.defensebusiness.org/topics?topicId=29400) | [Small UAS compatible Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Sensors](https://sbir.defensebusiness.org/topics?topicId=29400) | |
| [AF18B-T010](https://sbir.defensebusiness.org/topics?topicId=29401) | [Multiphysics Modeling of Dynamic Combustion Processes](https://sbir.defensebusiness.org/topics?topicId=29401) | |
| [AF18B-T011](https://sbir.defensebusiness.org/topics?topicId=29408) | [Optical Joining for Resilient Space Photovoltaic Integration](https://sbir.defensebusiness.org/topics?topicId=29408) | |
| [AF18B-T012](https://sbir.defensebusiness.org/topics?topicId=29409) | [EGS Data Source Integration for Enhanced SSA](https://sbir.defensebusiness.org/topics?topicId=29409) | |
| [AF18B-T013](https://sbir.defensebusiness.org/topics?topicId=29410) | [Adiabatic/Reversible Logic Test Chip](https://sbir.defensebusiness.org/topics?topicId=29410) | |
| [AF18B-T014](https://sbir.defensebusiness.org/topics?topicId=29411) | [X-ray Cinematography for Explosive Events](https://sbir.defensebusiness.org/topics?topicId=29411) | |
| [AF18B-T015](https://sbir.defensebusiness.org/topics?topicId=29412) | [Lasers Based on Gas or Liquid Filled Hollow-Core Photonic Crystal Fibers](https://sbir.defensebusiness.org/topics?topicId=29412) | |
| [AF18B-T016](https://sbir.defensebusiness.org/topics?topicId=29413) | [Rapid Nondestructive Inspection of Traditionally Uninspectable Adhesively-Filled Composite Joints](https://sbir.defensebusiness.org/topics?topicId=29413) |
| [AF18B-T017](https://sbir.defensebusiness.org/topics?topicId=29414) | [Development of Quasi-2D “MXene” Ceramic Fillers for Electromagnetically Responsive Composites](https://sbir.defensebusiness.org/topics?topicId=29414) |

**DHA (Defense Health Agency) SBIR**

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| [DHA182-001](https://sbir.defensebusiness.org/topics?topicId=29393) | [Clinical Decision Support for Dermatology Diagnosis in No-Communications Theater Environments](https://sbir.defensebusiness.org/topics?topicId=29393) |
| [DHA182-002](https://sbir.defensebusiness.org/topics?topicId=29394) | [Extended Wear Deep-Fitting Noise Dosimeter](https://sbir.defensebusiness.org/topics?topicId=29394) |
| [DHA182-003](https://sbir.defensebusiness.org/topics?topicId=29395) | [Limb Cooling Device to Preserve Ischemic Extremity for Prolonged Field Care](https://sbir.defensebusiness.org/topics?topicId=29395) |
| [DHA182-004](https://sbir.defensebusiness.org/topics?topicId=29396) | [Identification of Open Globe Injuries on the Battlefield](https://sbir.defensebusiness.org/topics?topicId=29396) |
| [DHA182-005](https://sbir.defensebusiness.org/topics?topicId=29397) | [Development of an Individualized Portable Platform to Deliver Vestibular Rehabilitation](https://sbir.defensebusiness.org/topics?topicId=29397) |
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**DHA (Defense Health Agency) STTR**

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| [DHA18B-001](https://sbir.defensebusiness.org/topics?topicId=29392) | [Cervical Spine Health Improvement Products](https://sbir.defensebusiness.org/topics?topicId=29392) |

**DLA (Defense Logistics Agency) - SBIR**

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| [DLA182-001](https://sbir.defensebusiness.org/topics?topicId=29424) | [Rotorcraft Fuel Bladder Weight and Total Ownership Cost Reduction](https://sbir.defensebusiness.org/topics?topicId=29424) |
| [DLA182-002](https://sbir.defensebusiness.org/topics?topicId=29595) | [Extending Fresh Fruits and Vegetables (FF&V) Shelf Life through novel technology in the Subsistence Supply Chain](https://sbir.defensebusiness.org/topics?topicId=29595) |
| [DLA182-003](https://sbir.defensebusiness.org/topics?topicId=29596) | [Increase Competition And Product Availability For MILSATCOM System Components](https://sbir.defensebusiness.org/topics?topicId=29596) |
| [DLA182-004](https://sbir.defensebusiness.org/topics?topicId=29597) | [Reverse Engineering Technical Data Packages for Development of Alternate Sources of Supply for B52 Aircraft NSN 1680-01-231-6235 Display Unit](https://sbir.defensebusiness.org/topics?topicId=29597) |
| [DLA182-005](https://sbir.defensebusiness.org/topics?topicId=29598) | [Increase Product Availability And Improve Life Cycle Support For MILSATCOM System Components](https://sbir.defensebusiness.org/topics?topicId=29598) |
| [DLA182-006](https://sbir.defensebusiness.org/topics?topicId=29599) | [Increase Competition through Development of Alternate Sources of Supply for B-2 Aircraft NSN 5945-01-265-2868 Relay Assembly](https://sbir.defensebusiness.org/topics?topicId=29599) |

**DME (Defense Mobility Enterprise) - SBIR**

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| [DMEA182-001](https://sbir.defensebusiness.org/topics?topicId=29590) | [Handheld Liquid Particle Counter](https://sbir.defensebusiness.org/topics?topicId=29590) |
| [DMEA182-002](https://sbir.defensebusiness.org/topics?topicId=29591) | [Front End of Line and Back End of Line Layer Fabrication Partitioning for the Purpose of Design Intellectual Property (IP) Protection](https://sbir.defensebusiness.org/topics?topicId=29591) |
| [DMEA182-003](https://sbir.defensebusiness.org/topics?topicId=29592) | [BlockChain Supply Chain Enhancement for Trusted & Assured FPGA’s and ASICs](https://sbir.defensebusiness.org/topics?topicId=29592) |
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**DME (Defense Mobility Enterprise) - STTR**

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| [DMEA18B-001](https://sbir.defensebusiness.org/topics?topicId=29594) | [Automated In-situ Large-area De-processing of ICs with High Throughput](https://sbir.defensebusiness.org/topics?topicId=29594) |

**DTRA (Defense Threat Reduction Agency) - SBIR**

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| [DTRA182-001](https://sbir.defensebusiness.org/topics?topicId=29611) | [IED neutralization from an airborne platform](https://sbir.defensebusiness.org/topics?topicId=29611) |
| [DTRA182-002](https://sbir.defensebusiness.org/topics?topicId=29612) | [Autonomous navigation through small, confined spaces](https://sbir.defensebusiness.org/topics?topicId=29612) |
| [DTRA182-003](https://sbir.defensebusiness.org/topics?topicId=29613) | [Lab-scale Diagnostics for Combustible Aerosol Evolution](https://sbir.defensebusiness.org/topics?topicId=29613) |
| [DTRA182-004](https://sbir.defensebusiness.org/topics?topicId=29614) | [Modeling of Chemical Hazards Dispersion in Lakes and Reservoirs in CONUS](https://sbir.defensebusiness.org/topics?topicId=29614) |
| [DTRA182-005](https://sbir.defensebusiness.org/topics?topicId=29615) | [Automated pattern recognition methods to identify nuclear explosions](https://sbir.defensebusiness.org/topics?topicId=29615) |
| [DTRA182-006](https://sbir.defensebusiness.org/topics?topicId=29616) | [Cyclone Particulate/Aerosol Concentrator for Radionuclides Nuclear Weapons Test Detection and Monitoring Systems](https://sbir.defensebusiness.org/topics?topicId=29616) |
| [DTRA182-007](https://sbir.defensebusiness.org/topics?topicId=29617) | [Optimization of Scintillators for Enhanced Performance through Materials Engineering](https://sbir.defensebusiness.org/topics?topicId=29617) |

**DTRA (Defense Threat Reduction Agency) - STTR**

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| [DTRA18B-001](https://sbir.defensebusiness.org/topics?topicId=29607) | [Computer Vision Image Interpretation for 3D model reconstruction](https://sbir.defensebusiness.org/topics?topicId=29607) |
| [DTRA18B-002](https://sbir.defensebusiness.org/topics?topicId=29608) | [Discrete 3-D Electronics for Mobile Radiation Detection Systems](https://sbir.defensebusiness.org/topics?topicId=29608) |
| [DTRA18B-003](https://sbir.defensebusiness.org/topics?topicId=29609) | [Elpasolite Scintillators with Mixed Halides for the Best Energy Resolution](https://sbir.defensebusiness.org/topics?topicId=29609) |
| [DTRA18B-004](https://sbir.defensebusiness.org/topics?topicId=29610) | [Advance X-ray Transport and Radiation Response Analysis (XTRRA) Toolkit Improvements](https://sbir.defensebusiness.org/topics?topicId=29610) |

**MDA (Missile Defense Agency) - SBIR**

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| [MDA18-009](https://sbir.defensebusiness.org/topics?topicId=29325) | [Element Model Framework](https://sbir.defensebusiness.org/topics?topicId=29325) |
| [MDA18-010](https://sbir.defensebusiness.org/topics?topicId=29326) | [Methodologies for Cost-Effective Measurement of Dynamic Material Properties for Carbon-Carbon Composites](https://sbir.defensebusiness.org/topics?topicId=29326) |
| [MDA18-011](https://sbir.defensebusiness.org/topics?topicId=29327) | [Advanced Data Management and Mining for BMDS Digital Simulations](https://sbir.defensebusiness.org/topics?topicId=29327) |
| [MDA18-012](https://sbir.defensebusiness.org/topics?topicId=29328) | [Model Level Integrated Simulation Architecture for Collaborative Development](https://sbir.defensebusiness.org/topics?topicId=29328) |
| [MDA18-013](https://sbir.defensebusiness.org/topics?topicId=29329) | [Advanced Phase Modulation Techniques for Mitigation of Optical Nonlinearities in High Power Fiber Amplifiers](https://sbir.defensebusiness.org/topics?topicId=29329) |
| [MDA18-014](https://sbir.defensebusiness.org/topics?topicId=29330) | [Modeling of Fiber Laser Refractive Index Profiles and Dopant Index Profiles for Predicting High Power Fiber Laser Performance](https://sbir.defensebusiness.org/topics?topicId=29330) |
| [MDA18-015](https://sbir.defensebusiness.org/topics?topicId=29331) | [Graphics Processing Unit for Space-based Applications](https://sbir.defensebusiness.org/topics?topicId=29331) |
| [MDA18-016](https://sbir.defensebusiness.org/topics?topicId=29332) | [High Power Pump Signal Combiners for Next Generation Monolithic Fiber Amplifiers](https://sbir.defensebusiness.org/topics?topicId=29332) |
| [MDA18-017](https://sbir.defensebusiness.org/topics?topicId=29335) | [Low Size, Weight, and Power, Multi-component, High Power Isolator](https://sbir.defensebusiness.org/topics?topicId=29335) |
| [MDA18-018](https://sbir.defensebusiness.org/topics?topicId=29337) | [Photon Sensitive Camera](https://sbir.defensebusiness.org/topics?topicId=29337) |
| [MDA18-019](https://sbir.defensebusiness.org/topics?topicId=29338) | [Enabling Technologies for an Exo-atmospheric Neutral Particle Beam Sensor Weapon](https://sbir.defensebusiness.org/topics?topicId=29338) |
| [MDA18-020](https://sbir.defensebusiness.org/topics?topicId=29339) | [High Power Density Source for Space Applications](https://sbir.defensebusiness.org/topics?topicId=29339) |
| [MDA18-021](https://sbir.defensebusiness.org/topics?topicId=29341) | [Advanced Low Cost Upper Stage Propellant Tanks](https://sbir.defensebusiness.org/topics?topicId=29341) |
| [MDA18-022](https://sbir.defensebusiness.org/topics?topicId=29342) | [Innovative Mobile Launch Platform](https://sbir.defensebusiness.org/topics?topicId=29342) |
| [MDA18-023](https://sbir.defensebusiness.org/topics?topicId=29344) | [Recoverable and Reusable Air Launch Pallet](https://sbir.defensebusiness.org/topics?topicId=29344) |
| [MDA18-024](https://sbir.defensebusiness.org/topics?topicId=29345) | [Ink-based 3D Electronics Printing for Missile System Applications](https://sbir.defensebusiness.org/topics?topicId=29345) |

**Navy SBIR**

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| [N182-095](https://sbir.defensebusiness.org/topics?topicId=29544) | [Lightweight Track Technology](https://sbir.defensebusiness.org/topics?topicId=29544) |
| [N182-096](https://sbir.defensebusiness.org/topics?topicId=29576) | [Portable Ruggedized Energy Efficient Medical Sterilizer (PREEMS)](https://sbir.defensebusiness.org/topics?topicId=29576) |
| [N182-097](https://sbir.defensebusiness.org/topics?topicId=29557) | [Low-Cost Approach for Improved Performance of the Upper Section of the Directional Frequency Analysis and Recording Sonobuoy](https://sbir.defensebusiness.org/topics?topicId=29557) |
| [N182-098](https://sbir.defensebusiness.org/topics?topicId=29550) | [System/Method for Onboard Engine and Bleed Air Detoxification](https://sbir.defensebusiness.org/topics?topicId=29550) |
| [N182-099](https://sbir.defensebusiness.org/topics?topicId=29562) | [Weather Avoidance Sensor Systems for Unmanned Aerial Systems](https://sbir.defensebusiness.org/topics?topicId=29562) |
| [N182-100](https://sbir.defensebusiness.org/topics?topicId=29547) | [Data Analytics for Navy Aircraft Component Fatigue Life Management](https://sbir.defensebusiness.org/topics?topicId=29547) |
| [N182-101](https://sbir.defensebusiness.org/topics?topicId=29565) | [Multicore Fiber Optic Package Optical Subassembly for Wideband Digital and Analog Photonic Links](https://sbir.defensebusiness.org/topics?topicId=29565) |
| [N182-102](https://sbir.defensebusiness.org/topics?topicId=29580) | [Multicore Fiber Optic Connector for Wideband Digital and Analog Photonic Links](https://sbir.defensebusiness.org/topics?topicId=29580) |
| [N182-103](https://sbir.defensebusiness.org/topics?topicId=29582) | [Carbon Nanotubes as Transparent Heater Film](https://sbir.defensebusiness.org/topics?topicId=29582) |
| [N182-104](https://sbir.defensebusiness.org/topics?topicId=29569) | [Multi-Integrated Domain Administrative Support Solution](https://sbir.defensebusiness.org/topics?topicId=29569) |
| [N182-105](https://sbir.defensebusiness.org/topics?topicId=29575) | [Internal Antireflection Coatings for Aerodynamic Missile Domes](https://sbir.defensebusiness.org/topics?topicId=29575) |
| [N182-106](https://sbir.defensebusiness.org/topics?topicId=29553) | [Modem Translator for Future Time Triggered Ethernet Network Digital Avionics/Sensors Optical On-Board Backbones](https://sbir.defensebusiness.org/topics?topicId=29553) |
| [N182-107](https://sbir.defensebusiness.org/topics?topicId=29549) | [Electromagnetic Fields and Effects Inside Aircraft Cabins, Cockpits, and Avionics Bays](https://sbir.defensebusiness.org/topics?topicId=29549) |
| [N182-108](https://sbir.defensebusiness.org/topics?topicId=29540) | [Photonic Integrated Circuit Reliability](https://sbir.defensebusiness.org/topics?topicId=29540) |
| [N182-109](https://sbir.defensebusiness.org/topics?topicId=29583) | [Monolithic Beam Steerer for High Power Mid-infrared Quantum Cascade Lasers](https://sbir.defensebusiness.org/topics?topicId=29583) |
| [N182-110](https://sbir.defensebusiness.org/topics?topicId=29564) | [Computational Analysis of Missile Flight Through Rain](https://sbir.defensebusiness.org/topics?topicId=29564) |
| [N182-111](https://sbir.defensebusiness.org/topics?topicId=29563) | [Propellant Grain Cracks Detection System](https://sbir.defensebusiness.org/topics?topicId=29563) |
| [N182-112](https://sbir.defensebusiness.org/topics?topicId=29545) | [Advanced Signal Processing and Coordination Applied to Electronic Support Measures](https://sbir.defensebusiness.org/topics?topicId=29545) |
| [N182-113](https://sbir.defensebusiness.org/topics?topicId=29554) | [Quantum Cascade Laser Thermal Impedance Improvement](https://sbir.defensebusiness.org/topics?topicId=29554) |
| [N182-114](https://sbir.defensebusiness.org/topics?topicId=29568) | [Real-Time, Effective Measurement of Dehydration Levels in Naval Aircrew](https://sbir.defensebusiness.org/topics?topicId=29568) |
| [N182-115](https://sbir.defensebusiness.org/topics?topicId=29542) | [Icephobic Coatings or Surface Treatments for Turbomachinery Ice Protection Applications](https://sbir.defensebusiness.org/topics?topicId=29542) |
| [N182-116](https://sbir.defensebusiness.org/topics?topicId=29578) | [Minimization of In-Band Interferers on Airborne Anti-Submarine System Performance](https://sbir.defensebusiness.org/topics?topicId=29578) |
| [N182-117](https://sbir.defensebusiness.org/topics?topicId=29581) | [Cognitive Radar for Maritime/Littoral Surveillance](https://sbir.defensebusiness.org/topics?topicId=29581) |
| [N182-118](https://sbir.defensebusiness.org/topics?topicId=29579) | [System for Onboard Engine and Bleed Air Monitoring and Filtering](https://sbir.defensebusiness.org/topics?topicId=29579) |
| [N182-119](https://sbir.defensebusiness.org/topics?topicId=29572) | [Oceanography Tactics Training for Employment Readiness](https://sbir.defensebusiness.org/topics?topicId=29572) |
| [N182-120](https://sbir.defensebusiness.org/topics?topicId=29558) | [Multifunction-Multimodal Airborne Radar in Maritime/Littoral Environments](https://sbir.defensebusiness.org/topics?topicId=29558) |
| [N182-121](https://sbir.defensebusiness.org/topics?topicId=29567) | [Low-Density, Low-Volume Explosion Suppression Material for Aircraft Fuel Tanks](https://sbir.defensebusiness.org/topics?topicId=29567) |
| [N182-122](https://sbir.defensebusiness.org/topics?topicId=29573) | [Fleet Material Locator Information System (FMLIS)](https://sbir.defensebusiness.org/topics?topicId=29573) |
| [N182-123](https://sbir.defensebusiness.org/topics?topicId=29559) | [Clearinghouse for Subsistence Ordering & Receipt (CSOR)](https://sbir.defensebusiness.org/topics?topicId=29559) |
| [N182-124](https://sbir.defensebusiness.org/topics?topicId=29541) | [Seamless Knitting for Military Protective Clothing](https://sbir.defensebusiness.org/topics?topicId=29541) |
| [N182-125](https://sbir.defensebusiness.org/topics?topicId=29552) | [Fiber Optic Condition Based Management System](https://sbir.defensebusiness.org/topics?topicId=29552) |
| [N182-126](https://sbir.defensebusiness.org/topics?topicId=29555) | [Effect of Surface Finish and Post-Processing on the Fatigue Life of Additively Manufacturing Parts](https://sbir.defensebusiness.org/topics?topicId=29555) |
| [N182-127](https://sbir.defensebusiness.org/topics?topicId=29556) | [Fooling Computer Vision Classifiers with Adversarial Examples](https://sbir.defensebusiness.org/topics?topicId=29556) |
| [N182-128](https://sbir.defensebusiness.org/topics?topicId=29577) | [Oral Dietary Supplement for U.S. Navy Dolphins](https://sbir.defensebusiness.org/topics?topicId=29577) |
| [N182-129](https://sbir.defensebusiness.org/topics?topicId=29548) | [Novel Polymer Binder Systems for Advanced Energetic Formulations](https://sbir.defensebusiness.org/topics?topicId=29548) |
| [N182-130](https://sbir.defensebusiness.org/topics?topicId=29546) | [Drift Step Recovery Diode (DSRD) for Wideband (WB) and Ultra-Wideband (UWB) Pulse Generation](https://sbir.defensebusiness.org/topics?topicId=29546) |
| [N182-131](https://sbir.defensebusiness.org/topics?topicId=29566) | [Red Team in a Box for Embedded and Non-IP Devices](https://sbir.defensebusiness.org/topics?topicId=29566) |
| [N182-132](https://sbir.defensebusiness.org/topics?topicId=29543) | [Networked Airborne Free Space Optical Communications](https://sbir.defensebusiness.org/topics?topicId=29543) |
| [N182-133](https://sbir.defensebusiness.org/topics?topicId=29574) | [Advanced Battlefield Communications System in Operations and Training](https://sbir.defensebusiness.org/topics?topicId=29574) |
| [N182-134](https://sbir.defensebusiness.org/topics?topicId=29561) | [Ultrapure, High Growth Rate Epitaxial Technologies for Gallium Nitride Ultra High Voltage Power Electronics](https://sbir.defensebusiness.org/topics?topicId=29561) |
| [N182-135](https://sbir.defensebusiness.org/topics?topicId=29570) | [Submarine Sensor Environmental Inference](https://sbir.defensebusiness.org/topics?topicId=29570) |
| [N182-136](https://sbir.defensebusiness.org/topics?topicId=29560) | [Compact Low Noise Acoustic Sensors for Sonobuoys](https://sbir.defensebusiness.org/topics?topicId=29560) |
| [N182-137](https://sbir.defensebusiness.org/topics?topicId=29551) | [F-region (thermospheric) Dayside Neutral Wind Measurement from a CubeSat](https://sbir.defensebusiness.org/topics?topicId=29551) |
| [N182-138](https://sbir.defensebusiness.org/topics?topicId=29571) | [Radio Frequency-Activity Modeling and Pattern Recognition (RF-AMPR)](https://sbir.defensebusiness.org/topics?topicId=29571) |

**Navy STTR**

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| [N18B-T029](https://sbir.defensebusiness.org/topics?topicId=29587) | [Systematic Fatigue Test Spectrum Editing Using Wavelet Transformations](https://sbir.defensebusiness.org/topics?topicId=29587) |
| [N18B-T030](https://sbir.defensebusiness.org/topics?topicId=29588) | [Advanced Command and Control Architectures for Autonomous Sensing](https://sbir.defensebusiness.org/topics?topicId=29588) |
| [N18B-T031](https://sbir.defensebusiness.org/topics?topicId=29586) | [Scalable Technology for Manufacturing Large Composite Components Using Nanostructured Heaters](https://sbir.defensebusiness.org/topics?topicId=29586) |
| [N18B-T032](https://sbir.defensebusiness.org/topics?topicId=29585) | [Real-Time Validation of Machine Intelligence Controlling Unmanned Vehicle Autonomous Operations](https://sbir.defensebusiness.org/topics?topicId=29585) |
| [N18B-T033](https://sbir.defensebusiness.org/topics?topicId=29584) | [Blending Classical Model-Based Target Classification and Identification Approaches with Data-Driven Artificial Intelligence](https://sbir.defensebusiness.org/topics?topicId=29584) |
| [N18B-T034](https://sbir.defensebusiness.org/topics?topicId=29589) | [Algorithm Development for Assessment of Energetic Materials under Vibration Exposure](https://sbir.defensebusiness.org/topics?topicId=29589) |

**NGA (National Geospatial-Intelligence Agency) SBIR**

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| [NGA182-001](https://sbir.defensebusiness.org/topics?topicId=29391) | [Faster Optical Modem for Underwater Data Acquisition](https://sbir.defensebusiness.org/topics?topicId=29391) |

**OSD (Office of the Under Secretary of Defense) SBIR**

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| [SCO182-001](https://sbir.defensebusiness.org/topics?topicId=29415) | [Precision Centrifuge for Testing of High Acceleration Assemblies](https://sbir.defensebusiness.org/topics?topicId=29415) |
| [SCO182-002](https://sbir.defensebusiness.org/topics?topicId=29416) | [Scalable Low-Cost AESA Transmitter with Phase-Only Nulling](https://sbir.defensebusiness.org/topics?topicId=29416) |
| [SCO182-003](https://sbir.defensebusiness.org/topics?topicId=29417) | [High Velocity Gun-Launched Projectile and Sabot Structures](https://sbir.defensebusiness.org/topics?topicId=29417) |
| [SCO182-004](https://sbir.defensebusiness.org/topics?topicId=29418) | [High Acceleration and Hypervelocity Radiofrequency Communications and Sensing](https://sbir.defensebusiness.org/topics?topicId=29418) |
| [SCO182-005](https://sbir.defensebusiness.org/topics?topicId=29419) | [High-Dynamic Target Tracking in Multisensor Environments](https://sbir.defensebusiness.org/topics?topicId=29419) |
| [SCO182-006](https://sbir.defensebusiness.org/topics?topicId=29420) | [Deep Reinforcement Learning for Model Training with Simulated Imagery](https://sbir.defensebusiness.org/topics?topicId=29420) |
| [SCO182-007](https://sbir.defensebusiness.org/topics?topicId=29421) | [High-Throughput Computer Vision](https://sbir.defensebusiness.org/topics?topicId=29421) |
| [SCO182-008](https://sbir.defensebusiness.org/topics?topicId=29422) | [Maritime Target Classification from Inverse Synthetic Aperture Radar (ISAR) Using Machine Learning](https://sbir.defensebusiness.org/topics?topicId=29422) |
| [SCO182-009](https://sbir.defensebusiness.org/topics?topicId=29423) | [Secure Computing with Neural Networks](https://sbir.defensebusiness.org/topics?topicId=29423) |

**USSOCOM (U.S. Special Operations Command) SBIR**

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| [SOCOM182-001](https://sbir.defensebusiness.org/topics?topicId=29387) | [40mm Grenade, 2.75-inch Rocket, 76mm Rocket](https://sbir.defensebusiness.org/topics?topicId=29387) |
| [SOCOM182-002](https://sbir.defensebusiness.org/topics?topicId=29389) | [Improving Human Performance through Neuroenhancement](https://sbir.defensebusiness.org/topics?topicId=29389) |
| [SOCOM182-003](https://sbir.defensebusiness.org/topics?topicId=29388) | [Diver Breathing Gas Re-heater for Closed Circuit Underwater Breathing Apparatus](https://sbir.defensebusiness.org/topics?topicId=29388) |

**USSOCOM (U.S. Special Operations Command) STTR**

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| [SOCOM18B-001](https://sbir.defensebusiness.org/topics?topicId=29390) | [Human-Machine Teaming with Machine Learning Algorithms](https://sbir.defensebusiness.org/topics?topicId=29390) |