



## Funding Alert from the Michigan SBIR/STTR Assistance Program

[Program link](#)

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### DoD 2017.2 SBIR Topics DoD 2017.B STTR Topics

Pre-release opens April 21, 2017

Open discussion with TPOCs through May 22, 2017

SITIS Q&A Closes June 7, 2017

Solicitation opens May 23, 2017 and proposals due June 21, 2017 at **8:00 p.m. ET** (*Note new time*)

For assistance in searching for appropriate topics and preparing competitive proposals, contact BBCetc at [info@bbccetc.com](mailto:info@bbccetc.com) or 734-930-9741. And be sure to check out our [recorded DoD webinars](#).

### DOD SBIR 2017.2 and STTR 2017.B Topics

[Solicitation link](#)

#### Army SBIR

A17-117	Extremely High Frequency Rail-based Synthetic Aperture Radar
A17-118	Improved PNT for Missile in Contested GPS Environments
A17-119	Detect, Locate, and Mitigate GPS Threats
A17-120	Volumetric Spectral Diagnostics of Particle Laden Plumes
A17-121	Low-Order Models for the Evolution of Scalar and Vector Quantities in Supersonic Particle Laden Plumes
A17-122	Accurate Hybrid Flowfield Approaches for High Altitude Maneuverability
A17-123	Observable Signatures of Missile Threats to Army Interests in the Field
A17-124	Significant Chemical Contributors to Observable Signatures of High Altitude Maneuvering Missiles
A17-125	Nanometallic Matrices for Use in Energetic Formulations
A17-126	Platform Agnostic Low SWAP-C Fire Control Radar for Counter-UAS
A17-127	Measurement of Force in Personnel Parachute Risers
A17-128	Novel Detection Sensor for Small Arms Projectile Motion
A17-129	Interchangeable Ballistic Dynamic Pressure-Temperature Sensor
A17-130	Soil State Integration
A17-131	Stabilization Product to Preserve and Concentrate Biomolecules in Serum and Urine for Downstream Serological Diagnosis of Infection
A17-132	Military Working Dog Hearing Protection/Active Communication System
A17-133	Enhanced Fire Control Radar (FCR) Stationary Target Detection
A17-134	UGV Electromagnetic Environment Interrogation and Exploitation

**Air Force SBIR**

AF172-001	Damage Tolerance Analysis of Grinding Burn Cracks in High Strength Steels
AF172-002	Demonstration and Validation of Brush LHE Alkaline Zn-Ni as a Brush Cadmium (Cd) Alternative
AF172-003	UV cured maskant robotic application with self-masking
AF172-004	Constant Speed Drive Input Shaft Monitor
AF172-005	Hardware Modeler Replacement for Digital Device Simulation
AF172-006	Unique Modular, High Power, Cascadable Amplifier for support of EMP Direct Drive Testing
AF172-007	Conversational Personal Assistants for Air Force Operations Centers
AF172-008	Cost Estimating Relationships for Evaluation of Rapidly Evolving Technologies
AF172-009	Applications Using New Satellite Communications Constellations
AF172-010	Threat Detection Using Artificial Intelligence and Machine Learning
AF172-011	MWIR InAsSb APD Receiver

**Air Force STTR**

AF17B-T001	AFFF Disposal
AF17B-T002	Closed-Loop Feedback Control for Transcranial Direct Current Stimulation
AF17B-T003	Resilient Directional Mesh Enhanced Tactical Airborne Networks
AF17B-T004	Mission and Information Assurance through Cyber Atomics

**DARPA (Defense Advanced Research Projects Agency) SBIR**

SB172-001	Compact and Scalable Bidirectional Electronic BioInterfaces
SB172-002	Improved Mass Production of Beneficial Insects
SB172-003	Development of Gene-Encoded Monoclonal Antibody Potency Assay
SB172-004	Super-Resolving Phase Filter for Improved 3D Printing, Machining and Imaging
SB172-005	Plug and Play Analysis and Simulation
SB172-006	Collective Allostatic Load
SB172-007	Analyzing Human Dimensions of Software Engineering Processes
SB172-008	Ecosystem of Secure Software Components around the seL4 Microkernel
SB172-009	Accelerated Low-power Motion Planning for Real-time Interactive Autonomy
SB172-010	Electronically Switchable Optical Filter

**DHA (Defense Health Agency) SBIR**

DHA172-004	Medical Information System Software Maintenance Capability
DHA172-005	Finger Pulse Oximeter for Patient Identification and Predictive Algorithms
DHA172-006	Mobile Causality Display Toolkit for Tactical Combat Casualty Care
DHA172-007	Next-Generation Ear Seals for Circumaural Headsets and Hearing Protectors
DHA172-008	Point of Care Test for Disease Severity and Risk Stratification

DHA172-009	Complex Crystalloid Resuscitative Fluid
DHA172-010	Medical Wearable for First Responder Assessment and Remote Monitoring
DHA172-011	Concentrated Lactated Ringer's Injectable Solution
DHA172-012	Solutions for Restoration of Urinary Function and Control
DHA172-013	Minimally Invasive Delivery of Therapy to the Inner Ear
DHA172-014	Development of an Individualized Portable Platform to Deliver Vestibular Rehabilitation

### **DHA (Defense Health Agency) STTR**

DHA17B-001	Handoff Training for Combat Casualty Care (HTC3)
DHA17B-002	Handoffs for Joint Service Casualty Care (HJSCC)
DHA17B-003	Fast Parameter Identification for Personalized Pharmacokinetics
DHA17B-004	Robust Biochemical and Biomarker Rapid Detection and Assay System for Field Use
DHA17B-005	Oxygen Production and Delivery on Demand

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

DLA172-001	Increase Competition through Small Business Source Approval Aircraft Launch and Recovery Equipment (ALRE) Critical Safety/Critical Application Items (CSI/CAI)
DLA172-002	Increase Competition through Small Business Source Approval for DLA Land and Maritime FMD Hard to Source Items

### **DMEA (Defense MicroElectronics Activity) SBIR**

DMEA172-001	Computerized Automatic Delayering and Polishing System
DMEA172-002	Through-Lens Fiducial Marking System

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

DTRA172-001	Application of Ultra-Low Cost Differential Pressure Sensors to the Large N Acoustic Sensor Problem
DTRA172-002	High Performance Computing (HPC) Tools for Topology Aware Mapping of Inter-node communication
DTRA172-003	Tools for Memory Hierarchy Optimization on Pre-Exascale HPC Architectures
DTRA172-004	Automated Approaches to Analyze and Identify Dual Use Research of Concern from Scientific Publications
DTRA172-005	Development of Ultracapacitors with High Energy Density and Low Leakage
DTRA172-006	Hardware-in-the-Loop Scintillation Simulator for MILSATCOM links in a Nuclear Disturbed Communication Environment
DTRA172-007	Non-Saturating, Real-Time Battlefield Dosimeter
DTRA172-008	Field Debris Analysis for Nuclear Forensics

### **Navy SBIR**

N172-100	Single Surface High Altitude Low Opening Parachute
N172-101	Shipboard Dimensional Analysis Tool (SDAT)
N172-102	Enhanced Technology for Man-Portable Targeting Systems
N172-103	Electro-Magnetic Interference Composite Rigid Wall Shelter (EMI CRWS)
N172-104	Low Probability of Detection On the Move Communications for Artillery Batteries

N172-105	Data Integrity and Confidentiality Resilient Operating System Environment for Multi-Level Security
N172-106	Optimize Additive Manufacturing (AM) Post-Build Heat Treatment (HT) and Hot Iso-static Pressing (HIP) Processes for Fatigue Performance using an Integrated Computational Materials Engineering (ICME) Framework
N172-107	Low Probability of Intercept / Low Probability of Detection Underwater Acoustic Source
N172-108	Fusion of Radar and Electro-Optical/Infrared (EO/IR) for Ship Classification and Identification
N172-109	Advanced Body Force Cueing for Dynamic Interface Simulation
N172-110	Virtual Antenna Array Mapping
N172-111	Ultra-High Frequency Clutter Model for Airborne Surveillance Radar
N172-112	Relevant Image Mosaic – Image Management Algorithm Development
N172-113	Long Endurance Compact Sonobuoy Power Source
N172-114	High Bandwidth Fast Steering Mirror
N172-115	Selective Emission of Light Utilizing Functionally-Graded Energetic Materials
N172-116	Miniature Oriented Tri-Axial Fluxgate Magnetometer Sensor
N172-117	Mishap Awareness Scenarios and Training for Operational Readiness Responses
N172-118	Laser Target and Analysis Board Development
N172-119	Advanced Radio Frequency Link Analysis Tool
N172-120	Mitigation of Helmet Vibration
N172-121	Epoxyless Connectors for Optical Fiber
N172-122	Reliable Target Area of Uncertainty from an Underwater Acoustic Source(s)
N172-123	Wave Characterization from Improved Navy Lighterage System (INLS) Warping Tug Motions
N172-124	Inflatable Multi-Platform Recovery System
N172-125	Out-of-Autoclave Composite Curing Utilizing Nanostructured Heaters
N172-126	Lead-Salt Infrared Detectors
N172-127	Space Clock Initiative
N172-128	Manufacturing Process Development for High Temperature Polymer or Nanocomposite Films for Dielectric Capacitors
N172-129	Numerical Methods Combat Power and Energy Systems (CPES)
N172-130	Electromagnetic Shielding
N172-131	Resolving organizational inefficiencies through crowdsourcing
N172-132	Adaptive Physical Training
N172-133	ACV Autonomous Sled Technologies
N172-134	Abrasive Blasting Nozzle Noise Control
N172-135	Fast Rise-time High Power Radio Frequency (HPRF) Pulse Shaping
N172-136	Navy Approved Multi-Factor Authentication for Personal Mobile Devices
N172-137	Advanced Cooling Technologies for Multifunctional Information Distribution System (MIDS) Terminals
N172-138	Circumvention and Recovery Radiation Effects Mitigation For Modern Electronics
N172-139	Safe Primary Battery
N172-140	High Power Solid State Electronic Switch for Use in Exploding Foil Initiator Applications

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N172-141	Alternative Mixing Technologies for High-Energy, Solid Materials for Large Gas Generator Propellant
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**Navy STTR**


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N17B-T031	Materials Modeling Tool for Alloy Design to Streamline the Development of High Temperature, High-Entropy Alloys for Advanced Propulsion Systems
N17B-T032	Techniques to Adjust Computational Trends Involving Changing Data (TACTIC-D)
N17B-T033	Optimized Build Plate Design Tool for Metal Laser Powder Bed Additive Manufacturing
N17B-T034	Risk-Based Unmanned Air System (UAS) Mission Path Planning Capability
N17B-T035	Mission Success Assessment and Mitigation Recommendations Using a Cognitive System

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


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NGA172-001	Accurate 3D Model Generation from Multiple Images
NGA172-002	Low-Shot Detection in Remote Sensing Imagery
NGA172-003	Signal Matching via Computationally Efficient Hashing
NGA172-004	Advanced Image Segmentation for Radar Imagery
NGA172-005	Super Resolution of Satellite Imagery using Multi-Sensor Fusion
NGA172-006	Elevation Data in Urban Environments
NGA172-007	Conflation of 3D Foundation Data
NGA172-008	Enabling temporal response of OLEO 4K displays for smooth and continuous high MTF visualization
NGA172-009	Improved Image Processing for Low Resolution Imagery with Inter-Frame Pose Variation

**USSOCOM (United States Special Operations Command) SBIR**


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SOCOM172-001	Canine Response Inhibitors
SOCOM172-002	Enhanced Canine Performance, Protection and Survivability
SOCOM172-003	Foreign Like Weapon Production Capability
SOCOM172-004	Group 1 (<20 pounds) Unmanned Aerial System for Special Operations Forces Tactical-Level Intelligence, Surveillance, and Reconnaissance Operations
SOCOM172-005	Group 2 (<55lbs) Unmanned Aerial System for Special Operations Forces Tactical-Level Intelligence, Surveillance, and Reconnaissance Operations
SOCOM172-006	High Accuracy Mortar Fire Control System