Funding Alert from the Michigan SBIR/STTR Assistance Program

Program link

DoD 2018.1 SBIR Topics
DoD 2018.A STTR Topics

Pre-release opens November 29, 2017
Open discussion with TPOCs through January 8, 2018
SITIS Q&A Closes January 31, 2018
Solicitation opens January 8 and proposals due February 7, 2018 at 8:00 p.m. ET

For assistance in searching for appropriate topics and preparing competitive proposals, contact BBCetc at info@bbcetc.com or 734-930-9741. And be sure to check out our recorded DoD webinars.

DOD SBIR 2018.1 and STTR 2018.A Topics

Solicitation link

Army SBIR

A18-001	Air Platform Passive Occupant Protection
A18-002	Rate Sampling High-Speed Video Sensors for Advanced Image processing and Super Resolution
A18-003	Optical Backbone Networks for Army Aviation
A18-004	Data Refinement and Reduction for Aviation Sustainment
A18-005	Dynamic Near-Field Radar Target Modeling in Scene Generator Systems
A18-006	Automatic Target Recognition of Personnel and Vehicles from an Unmanned Aerial System Using Learning Algorithms
A18-007	Novel Gun Hardened Energy Management System
A18-008	Development of Methods and concepts for Reducing Munitions Vulnerability to EMI and EMPe Batteries for Munitions and Weapon Platform
A18-009	Data Converter Systems on Chip
A18-010	Nuetralize Enemy Drones
A18-011	Covalent organic frameworks based nanoporous structures for explosive remediation
A18-012	Bioinspired hierarchical design of multifunctional, adaptive materials for hardened munitions
A18-013	Novel Combustible Cartridge Cases for Next Generation Small Arms Ammunition
A18-014	Non-GPS Local Position and Orientation Coordinate Referencing System
A18-015	Transforming 3D Reconnaissance Data into Geospatial Intelligence

A18-016	Production of energy dense synthetic chemicals from biomass upgrade
A18-017	Same Frequency Simultaneous Transmit and Receive Radio for Military and Commercial Applications
A18-018	Scalable, Power Efficient, Programmable, Wide Dynamic Range, Multi-Field - Programmable-Array Compatible Readout Integrated Circuit for Infrared Range Applications
A18-019	Development of a Turbocharger for Small Aviation Diesel Engines
A18-020	Additive Manufacturing for RF Materials and Antennas
A18-021	Electric machines and hybrid drives for vertical takeoff and landing (VTOL) tactical air vehicles
A18-022	Small form-factor, Relocatable, Unattended Ground Sensor
A18-023	Controlled Plasma Reactor for Bulk Production of Extended Solid Materials
A18-024	Simulated Cyber Opposing Force (OPFOR) for Live Virtual Constructive & Gaming (LVC&G) Training Simulations
A18-025	An Adaptively Covert, High Capacity RF Communications / Control Link
A18-026	Development of a Robust and Reliable Turbocharger Speed Sensor
A18-027	Liquid Ammonia Reserve Batteries for Electronic Fuzing
A18-028	Munition Maneuver Technologies
A18-029	Advanced Direct Wideband Analog to Digital Conversion for Radar
A18-030	Data tools for the Army Basic Training Environment
A18-031	Improved method for High Strength Magnesium Alloys in the as-cast Condition
A18-032	Dynamic Collaborative Visualization Ecosystem (DynaCoVE)
A18-033	Multi-Component, Co-Deposition of Patterned Films and Nanoparticles via Atmospheric Pressure Plasma CVD
A18-034	Machine Learning Enabled Near-Real-Time Situational Response for Mechanical Systems
A18-035	Detection and localization of GPS spoofing signal emitters
A18-036	Increased Capacity Retention of Silicon Anodes for Lithium Batteries
A18-037	Machine Learning Techniques for Tactical Mission Command
A18-038	Emulated Long Term Evolution (LTE) Analysis Environment

A18-039	High Aspect Ratio Mesa Delineation of Antimonide Based Infrared Focal Plane Arrays for Improved Quantum Efficiency and Modulation Transfer Function (MTF)
A18-040	Low-cost Imager for Heavily Degraded Visual Environments
A18-041	On-the-Move Spatio-Temporal Processing and Exploitation for Full Motion EO/IR Sensor
A18-042	Helmet-Mounted Microbolometer Hostile Fire Sensor
A18-043	Real-time Scene Labeling and Passive Obstacle Avoidance in Infrared Video
A18-044	A Resource-aware metadata-based Information Sharing: Achieving Scalability and VoI in future autonomous networks
A18-045	Improved Communications Scheduling in Contested Environments
A18-046	Radar Image-Based Navigation
A18-047	Development of Tools to Derive High Level Language Code Associated with Executable Software
A18-048	Alternate GPS Anti-Jam Technology
A18-049	Predictive Visualizations to Aid Rapid Decision Making
A18-050	Approaches to Counter Machine Learning
A18-051	Coordination and Cooperation in Ad-Hoc Networks in Congested and Contested Environments
A18-052	High Accuracy Laser Beam Rider Detection
A18-053	Protocols for a Tactical Full-Duplex Radio in Support of EW/Communications
A18-054	Data-Driven Authorship Feature Extraction and Comparative Analysis using Machine Learning
A18-055	Novel Flame Inhibiting Materials to Increase Red Phosphorus Obscurant Safety
A18-056	Metal Composite Flakes Containing Novel 2D Materials for Advanced Obscuration
A18-057	Solid State UV Raman Trace Explosive Detector
A18-058	New Instrumentation for the Characterization of Emerging Photocatalytic Materials
A18-059	Value of Information Tool to Support Military Data Acquisition
A18-060	Patient Transportable Tactical Combat Casualty Care Documentation Capability
A18-061	Medical Sensors Powered by Human Generated Energy
A18-062	Intravenous Technologies for Pre-hospital Hemorrhage Control and Resuscitation

A18-063	Intelligent Diagnostic Trauma Algorithms for a Ruggedized Autonomous Combat Casualty Care Capability
A18-064	Intelligent Trauma Intervention Algorithms for a Ruggedized Autonomous Combat Casualty Care Capability
A18-065	Smart Patient Monitoring Algorithms for Ruggedized Autonomous Combat Casualty Care Capability
A18-067	Ultra-flexible high efficiency photovoltaics
A18-072	Li-Fi Network for Tactical Shelters
A18-075	Rapidly Deployable Protection of Small Unmanned Aerial Systems (SUAS)
A18-076	Launch, Charge, and Recovery of Small Unmanned Aerial Systems (SUAS)
A18-077	Innovative Marking Technology for Hand Grenades
A18-078	Advanced Artillery & Mortar personnel Blast Gauge System
A18-079	Novel Reserve Power System with High-Power On-Demand Capability
A18-080	Common Engine Software Interface (FADEC) Component
A18-081	Alternative Manufacturing Technologies for Bridging and Structural Applications
A18-082	Development of Non-Decade Inductive Voltage Divider Automatic Test Equipment
A18-083	Low-cost lightweight track pins for tracked vehicles
A18-084	Spall Liner Energy Attenuating (EA) Material Development
A18-085	Affordable Electric Unmanned Ground Vehicle Force Protection Sensor System
A18-086	Substrate materials to grow single crystal quality Magnetic films by Liquid Phase Epitaxy (LPE)
A18-087	Ultra-Wideband Ultra-Low Loss Radome for Very Large Antenna Applications
A18-088	Navigation-Grade Micro-Electro-Mechanical-System (MEMS) Accelerometer Technologies
A18-089	Next Generation Aviation Helmet Mounted Display
A18-090	Powder Metal Gun Barrel
A18-091	Non_Pyro Battlefield Effects Replication
A18-092	Scenario-based Training Content Discovery, and Adaptive Recommendation
A18-093	Reusable Alternatives for Small Arms Signature Simulation for Live Training
A18-094	Compact High Efficiency High Energy Laser
A18-095	Real Time Automated Multi-Sensor Target Classification Algorithm

A18-096	Dual-Voltage Lithium-Ion 6T Batteries for Low-voltage and High-voltage Applications
A18-097	Rapid Test Method to Quantify Corrosion Inhibitor Lubricity Improver Fuel Additive
A18-098	Preview Sensing Suspension
A18-099	High Temperature Wear Coatings for Improving High Output Military Diesel Engine Performance and Durability
A18-100	High Voltage Wide-Bandgap Motor Controller
A18-101	Non-Pneumatic Tire for On-Highway and Off-Road Mobility
A18-102	Rapid, Transient, CFD-Based Solver for Human and Vehicle Thermal Signature Prediction
A18-103	Wide bandgap, bi-directional, high voltage DC-DC converter
A18-104	Scalable, Non-Traditional Additive Manufacturing printing of inexpensive metallic structures
A18-105	Development of a Modular, Open-Architecture, Open Source, Integrated, and Validated Mobility Prediction Capability
A18-108	Bridge Launch Linkage Assembly

Air Force SBIR

AF181-001	Integration of Optical and Radio Frequency (RF) Softwares into End-to-End Analysis Framework
AF181-002	Nanosecond Electrical Pulser
AF181-003	Biodynamic Acceleration and Angular Response During Fixed Wing Aircraft Ejection
AF181-004	Superconducting THz sources and receivers
AF181-005	Effects of sustained vibration and high temperature environments on polymer bonded composite materials
AF181-006	Chip-scale Inertial Measurement System
AF181-007	Missile Motor Cutting Technology
AF181-008	Externally Mounted Wide-range Saturated Steam Flow Meter
AF181-009	Automated ICBM wall thickness measurements
AF181-010	Quick and reliable hydrogen embrittlement testing
AF181-011	Chilled Brine Separation
AF181-012	Free Flight Hypersonic Erosion and Ablation Measurement System
AF181-013	Extremely Small Balance Technology

AF181-014	Wave Isolation
AF181-015	Computational Geometry Kernel Support
AF181-016	Virtual Reality for Test Cell Presence
AF181-017	DE Optical Turbulence Collection Sensor
AF181-018	Rechargeable Thermal Batteries for Airborne Systems
AF181-019	Novel Battle Damage Assessment Using Sensor Networks
AF181-020	Rapid construction of 3-D Satellite models from limited amounts of 2-D imagery
AF181-021	Algorithms & networking protocols for secure, wireless high-frequency communications systems
AF181-022	High-Frequency Ionospheric Visualization Environment (High-FIVE)
AF181-023	Optimized Personal Area Network (PAN) for Battlefield Airmen
AF181-024	Robust, Adaptive Machine Learning (RAM)
AF181-025	Evidence-based Certification Analysis and Planning in Acquisition
AF181-026	Novel Concepts for Combustion Instability Reduction
AF181-027	Real Time Thermal Imaging Capability for Propulsion Systems
AF181-028	Improved Turbochargers for Small IC Engines
AF181-029	Intelligent Robust Controller for Hybrid Electric UAVs
AF181-030	Novel Engine Cycles for Booster Stage Liquid Rocket Engines
AF181-031	Interpropellant Shaft Seal Solutions for Advanced Upper Stage Propulsion Systems
AF181-032	Direct Injection Systems for Small UAV Engines
AF181-033	Innovative Turbine Engine Propulsion Solutions for Class 3 Unmanned Aerial Vehicles
AF181-034	Advanced Material/Sealing Concepts for Small Heavy-Fuel, Remotely Piloted Aircraft (RPA's) Propulsion Systems
AF181-035	High Durability, Light Weight Bearings for Small Turbine Engines
AF181-036	Propellant Management Device for Monopropellant
AF181-037	Innovative Interconnectivity and Scheduling of Smart Sensors and Actuators for Reliable Propulsion Systems Controls
AF181-038	Predictive Missile Sustainment and Reliability Capability
AF181-039	EGS Architecture Support and Data Integration for Enhanced SSA

AF181-040	High Performance Radiation Hardened Solar Power
AF181-041	Next Generation Satellite Transponder using Low-Cost Adaptive HPA Linearization Technologies
AF181-042	Microstructural Treatment of Munitions Cases to Improve Performance
AF181-043	Innovative Solutions for Multi-Rotor Flight Endurance
AF181-044	Fluid Resistant, Electrically Resistive Foam
AF181-045	Corrosion Nondestructive Evaluation (NDE) in Confined Access Areas
AF181-046	Safe, Large-Format Lithium-ion (Li-ion) Batteries for ICBMs
AF181-047	Nondestructive Evaluation (NDE)-based Condition Assessment of Sub-surface Concrete with Limited Access
AF181-048	Structural Nuclear Effect Mitigation of Composite Aeroshells for Munitions for Air Platforms and Cruise Missile Systems
AF181-049	Interface Inspection Method for Thermal Spray Coatings
AF181-050	Assisted Data Analysis for Portable Nondestructive Inspection
AF181-051	Efficient 3-D Finite Element Process Modeling to Enable Linear Friction Welding of Aerospace Components
AF181-052	Efficient Evaluation of Fiber Coatings
AF181-053	Compact UHF/VHF Antenna
AF181-054	Advanced Machining of Aerospace Materials
AF181-055	Broadband Fibers Optic Components for DoD Applications
AF181-056	Flight line Portable Fuel Purifier
AF181-057	Rapid Manufacturing of Tooling for On-Aircraft Composite Scarf Repairs
AF181-058	Rapid, Low-cost Material Qualification for High-Cycle Durability of Blades in Short-Life Turbine Engines
AF181-059	Low temperature copper inks for low-cost flexible hybrid electronics manufacturing
AF181-060	Analytical Tool for Assessing Short Fiber Composite Structural Behavior
AF181-061	Robust, Light-Weight Bistatic Weather Radar
AF181-062	Building Die Extracted/Repackaged (DER)-Optical Hybrid Integrated Circuits (ICs) to Replace Passive Devices and Obsolete Packaged ICs in a Line Replaceable Unit (LRU) to Enhance Performance, Reliability, and Service Life
AF181-063	Adaptable Interfaces for M&S Tools
AF181-064	SINGULAR OPTICS COMMUNICATIONS METHOD FOR DISADVANTAGED USERS

Air Force STTR

AF18A-T001	Detection of Radio Frequency and Magnetic Field Bioeffects in Living Cells
AF18A-T002	Autonomous Self-Calibration of Sensing Systems and Instrumentation
AF18A-T003	Integrated ultra-high performance electro-optic modulators
AF18A-T004	Multi-Physics Models for Parachute Deployment and Braking
AF18A-T005	Metasurface Photonics
AF18A-T006	Volumetric Wavefront Sensing for the Characterization of Distributed-Volume Aberrations
AF18A-T007	Full Mueller Matrix Characterization of Imaged Samples using Digital Holography
AF18A-T008	Stable High Bandwidth AO Control with physical DM constraints
AF18A-T009	Modern Manufacturing for Liquid Rocket Engine Components
AF18A-T010	Reconfigurable / cognitive optical communications
AF18A-T011	Passive Cathode Device for Space Plasma Applications
AF18A-T012	Damage Morphology for Advanced Concretes
AF18A-T013	High Temperature Materials for Hypersonic Radomes and Antennas
AF18A-T014	Application of Hierarchical Memory Models to Automatic Target Recognition Modeling and Simulation
AF18A-T015	Radio Frequency (RF) Filter Tuning Element
AF18A-T016	High damage threshold antireflective treatment for infrared nonlinear materials
AF18A-T017	Next Generation Infrared Scene Projector for Testing MWIR Systems

CBD (Chemical and Biological Defense Program) SBIR

CBD181-001	3D Printed Manufacturing of Respiratory Protection
CBD181-002	Innovative Respiratory Protection for Low Threat Environments
CBD181-003	Durable Stretch Barrier Materials
CBD181-004	Extended Release Formulations for Fielded Nerve Agent Pretreatment
CBD181-005	Dual Formulation of Atropine/Scopolamine with Enhanced Stability
CBD181-006	Field Portable Mass Spectrometry for Small Molecule Drugs in Clinical Samples
CBD181-007	Bi-specific Antibodies Targeting Disease Caused by Encephalitic Alphaviruses

CBD (Chemical and Biological Defense Program) STTR

CBD18A-001	Circulating Diagnostic Markers of Infectious Disease
CBD18A-002	Marburg Virus Prophylactic Medical Countermeasure

DHA (Defense Health Agency) SBIR

DHA18-001	In-Ear Monitoring for Hearing Protection Compliance and Noise Hazard Exposure

DHA18-002	Broad Spectrum Envenomation Treatment
DHA18-003	Chronological Sweat Sensor Patch for Real-Time Human Molecular Biomarker Monitoring
DHA18-004	Neural Stem Cell Therapy for Severe Traumatic Brain Injury
DHA18-005	Nanosecond Electrical Pulse (nsEP) Pain Inhibition Device
DHA18-006	In-line, Non-invasive, Non-destructive Cell Monitoring in Dynamically Growing Cultures
DHA18-007	Compact Speaker Array for Clinical Testing of Ear-level Devices

DHA (Defense Health Agency) STTR

DHA18A-001	Brain Targeting Nanoparticle for Drug Delivery in Traumatic Brain Injury

DLA (Defense Logistics Agency) - SBIR

DLA181-001	Augmented Reality (AR) within the Defense Logistics Agency (DLA)
DLA181-002	Additive Manufacturing Process Monitoring and Control Technologies
DLA181-003	Reverse Engineering Technical Data Packages for Development of Alternate Sources of Supply for DLA Nuclear Enterprise Support Office (NESO) NSN: 3950-00-869-7362
DLA181-004	Increase Competition through Small Business Source Approval Request (SAR) for DLA Nuclear Enterprise Support Office (NESO) NSN: 6620-01-297-5576
DLA181-005	Increase Competition through Small Business Source Approval Request (SAR) for DLA Nuclear Enterprise Support Office (NESO) NSN: 8010-01-266-6576
DLA181-006	Increase Competition through Small Business Source Approval Request (SAR) for DLA Nuclear Enterprise Support Office (NESO) NSN: 1095-00-488-0829
DLA181-007	Increase Competition through Small Business Source Approval Request (SAR) for DLA Nuclear Enterprise Support Office (NESO) NSN: 5330-01-128-7088
DLA181-008	Increase Competition through Small Business Source Approval Request (SAR) for DLA Nuclear Enterprise Support Office (NESO) NSNs: 4720-01-440-7526 and 5915-00-205-8087
DLA181-009	Increase Competition through Small Business Source Approval Request (SAR) for DLA Nuclear Enterprise Support Office (NESO) NSNs: 5330-01-239-8862, 5330-01-239-8863, 5330-01-239-8864, and 5330-01-239-8865

DLA (Defense Logistics Agency) - STTR

DLA18A-001	Additive Manufacturing Sensor Fusion Technologies for Process Monitoring and Control.

Navy SBIR

N181-001	Extended Service Life of Transparent Armor
N181-002	Flexible LED Lighting
N181-003	USMC Ground Radio LPI/LPD Interference Mitigation Active Communication Antenna
N181-004	Application of a Low-Cost, Flame-Resistant Treatment to the Marine Corps Combat Utility Uniform that Provides Durable, Flame-Resistant Properties
N181-005	Power Factor Correction
N181-006	S-Band Transmit/Receive Module for Airborne Navy Radars
N181-007	Robust Communications Relay with Distributed Airborne Reliable Wide-Area Interoperable Network (DARWIN) for Manned-Unmanned Teaming in a Spectrum Denied Environment
N181-008	Maritime Lethality Analysis Toolset
N181-009	Open Architecture Tools to Describe Automatic Test Equipment (ATE) Capabilities
N181-010	Rotorcraft Integrated Electro-Optic/Infrared (EO/IR) Plumes and Effects Signature Modeling
N181-011	Fiber-optic Beam Homogenizer
N181-012	Low Cost Persistent Environmental Measurement System
N181-013	Compact, Lightweight, Power-Dense, Integrated Fuel Cell System
N181-014	Controlled Payload Release Mechanism for Pyrophoric Air Expendable Decoy
N181-015	Interactive 4D Overlay Tool for Joint Mission Planning System
N181-016	Two-Dimensional Surface Emitting Mid-Wave Infrared (MWIR) Quantum Cascade Laser Arrays for High-Power Applications
N181-017	Real-time Turbulence Recognition and Reporting System for Unmanned Systems
N181-018	Develop and Apply Artificial Intelligence and Machine Learning Techniques for Next-Generation Mission Planning
N181-019	Innovative Material (and Application Method) for a Hydrophobic/Oleophobic Coating to an Aluminum-Bodied Heat Exchanger
N181-020	High-Power, Low-Frequency, Textured PMN-PT Underwater Projector
N181-021	Innovative Ultra Violet and Ozone Resistant Material for Hydraulic Clamp Cushions
N181-022	Laser Periscope Detection

N181-023	Multispectral/Hyperspectral Imaging System for Small Boat Detection under Wake Clusters
N181-024	Future Airborne Capability Environment (FACE) Compliant ALE-47 Operational Flight Program Software Application
N181-025	AN/ALE-47(V) Software Test Environment Automated Scenario and Mission Data File Test Generator Software
N181-026	Data Science Driven Aircrew Performance Measurement and Proficiency System
N181-027	Free Space Optical (FSO) Communications in a Radio Frequency (RF) Denied Environment
N181-028	Precision Machining of Composite Structures
N181-029	Maritime Target Automatic Target Recognition from Inverse Synthetic Aperture Radar (ISAR) Utilizing Machine Learning
N181-030	Compiler Monitor System (CMS-2Y) Software Language Operation in X86 Linux Computing Environments
N181-031	AEGIS Combat System Optimization through Advanced Modeling of Software-Only Changes
N181-032	Electroactive Polymer Actuators for Unmanned Undersea and Surface Vehicles
N181-033	Virtual Assistant for Combat System Console Operators Utilizing Artificial Intelligence Algorithms
N181-034	Surface Ship Fat Line Towed Array Cut-Resistant Vibration Isolation Module (VIM) Hose
N181-035	Network Traffic Analysis for Cybersecurity for Navy Industrial Control Systems
N181-036	Hydrodynamic Control of a Towed Vertical Array
N181-037	High Performance, Small Size, Weight, and Power (SWaP) Clock for Unmanned Aerial Vehicles (UAVs)
N181-038	Gaming for Conceptual Network Learning for Naval Air Defense
N181-039	Common Unmanned Underwater Vehicle (UUV) Stern Launch and Recovery System
N181-040	Submarine Shallow Water Rescue Capability
N181-041	Improved Capacity, High Efficiency Cryogenic Cooling System
N181-042	Ruggedized High Speed Optical Fiber Network Connector for Next Generation Submarine Electronic Warfare (EW) Systems
N181-043	Quantitative Cybersecurity Risk Assessment (QCRA)
N181-044	Near the Ocean Surface Imaging through Atmospheric Turbulence

N181-045	High Bandwidth Towed Array Modem
N181-046	Tracking Algorithm(s) for Determining Highest Probability Predicted Intercept Points(s) in the AEGIS Combat System
N181-047	Decompression of Atmosphere Onboard Distressed Submarine
N181-048	Ultra-Low Ripple 1000 Volt Direct Current Battery Charger
N181-049	Advanced Analyzers for Monitoring Submarine Atmosphere
N181-050	Tunable Optical Filters for Radio Frequency (RF) Photonic Signal Distribution Systems
N181-051	Unified Cybersecurity System Modeling of Naval Control Systems
N181-052	Sea Wave Clutter Modeling for Enhanced AEGIS Combat System (ACS) Simulation
N181-053	Leveraging a Robust Data Architecture for Rapid Combat System Integration, Testing, and Certification
N181-054	High Performance Compact Medium-Power Long-Wave Infrared (LWIR) Laser System for Shipboard Deployment
N181-055	Scheduling Algorithm for Efficient and Effective Predicted Intercept Points (PIPs) for Multiple Targets
N181-056	Adaptable Boat Launch and Recovery System
N181-057	Physics-Based Improvements for Continuous Active Sonar (CAS)
N181-058	Next Generation Buoyancy Material
N181-059	Surface to Air Missile Interceptor Debris Model for Anti-Ship Cruise Missile (ASCM) Defense
N181-060	Ablative Material for Missile Launchers
N181-061	Integration of Autonomous Unmanned Systems in Theater Undersea Warfare Mission Planning
N181-062	Efficient Compact Diode-Pumped High-Power Fiber Coupled Laser Modules
N181-063	Mast Antenna Coupler
N181-064	Scalable Directional Antenna for Unmanned Aerial Vehicles (UAVs)
N181-065	Compact, Lightweight, and Affordable Mid-Wave Infrared (MWIR) Camera for Shipboard Deployment
N181-066	Cognitive Maritime Imaging
N181-067	Real-time Compression for Acoustic Array Time-Domain Data

N181-068	Pattern Recognition Algorithms for Detection of Latent Errors in Combat System Software
N181-069	Compact, Flexible Integrated Power Node Center for Direct Current Distribution
N181-070	Data Transmission using Visible Light Communication (VLC) for Undersea Platforms
N181-071	Eliminating Adverse Impact of Copper Contamination in Jet Propellant 5 (JP-5) Fuel
N181-072	Lightweight Gearbox for Air Cushion Vehicles
N181-073	Passive Surf Zone Minefield Detection (PSZMD) on the Coastal Battlefield Reconnaissance and Analysis (COBRA) system
N181-074	Field Programmability System (FPS) Modernization for Mark 39 Expendable Mobile Anti-Submarine Warfare (ASW) Training Target (EMATT)
N181-075	Navy-Electronic Battle Damage Indicator (eBDI) Tool for Non-Kinetic High-Power Radio-Frequency (RF) Engagements
N181-076	Multi-media Knowledge Capture (MKC) Engine
N181-077	Surf Zone Simulation for Autonomous Amphibious Vehicles
N181-078	Novel Thermal Management Materials Technologies for High Power Naval Systems
N181-079	Learning Performance Models and Tactical Knowledge for Continuous Mission Planning
N181-080	High Energy Fiber Laser Components
N181-081	Photolithographically Defined Optical Cooling Devices for Electronic Cooling Plane Applications
N181-082	Multi-Dimensional Ambient Noise Model
N181-083	Warfighting Chess Games and Pieces
N181-084	Auditory Situation Awareness Training Tool
N181-085	Feed-Forward Controls for Laser Powder Bed Fusion Based Metal Additive Manufacturing
N181-086	Cross-Domain Goggles with an Integrated, Illuminated Display
N181-087	Tunable Radio Frequency Absorptive Coating/Material
N181-088	High Dynamic Range Multi-Carrier Amplifier (HDR MCA)
N181-089	Multi-Domain Data Management (MDDM)
N181-090	Rapidly Integrated Tactical Communications Payload

N181-091	Long-Duration Proportional Thruster for Navy Hot-Gas Control System
N181-092	Shipboard Cross Domain Secure Solutions
N181-093	Wireless Sensor Technology for Use in Missile System Applications
N181-094	Scalable Design for Manufacturing, Modeling Optimization for Additive Manufacturing

Navy STTR

N18A-T001	Cooling System for Laser Enclosure
N18A-T002	Detection Rate Improvements Through Understanding and Modeling Ocean Variability
N18A-T003	Repurposing Computational Analyses of Tactics for Training Assessments
N18A-T004	Next-Generation, Power-Electronics Materials for Naval Aviation Applications
N18A-T005	Innovative Processing Techniques for Additive Manufacture of 7000 Series Aluminum Alloy Components
N18A-T006	Non-Destructive Concrete Interrogator and Strength of Materials Correlator
N18A-T007	Detect and Avoid Certification Environment for Unmanned Air Vehicles (UAVs)
N18A-T008	Additive Manufacturing for Naval Aviation Battery Applications
N18A-T009	Situational Awareness for Mission Critical Ship Systems
N18A-T010	In Situ Marine-Grade Aluminum Alloy Characterization for Sensitization Resistance and Stress Corrosion Cracking Prediction
N18A-T011	Non-Destructive Evaluation (NDE) of Missile Launcher Ablatives
N18A-T012	New Integrated Total Design of Unmanned Underwater Vehicles (UUVs) Propulsion System Architecture for Higher Efficiency and Low Noise
N18A-T013	Effects of Defects within Metal Additive Manufacturing Systems
N18A-T014	Advanced Ship-handling Simulators
N18A-T015	Combatant Craft Health Monitoring System
N18A-T016	Analysis and Application of Treatments to Mitigate Exfoliation Corrosion (Delamination) of 5XXX Series Aluminum
N18A-T017	Temperature Sensing Submarine ISR Buoy / Surface Ship Sensor Tow Cable
N18A-T018	Protocol Feature Identification and Removal
N18A-T019	Multi-Layer Mapping of Cyberspace
N18A-T020	Autonomous Hull Grooming Vehicle
N18A-T021	Active Imaging through Fog
N18A-T022	Accurate Flow-Through Conductivity Sensor for Autonomous Systems
N18A-T023	Operational Sand and Particulate Sensor System for Aircraft Gas Turbine Engines
N18A-T024	Hybrid Ceramic Matrix Composite/Polymer Matrix Composite (CMC-PMC) Skin Materials
N18A-T025	Jellyfish-Inspired Profiling Floats

N18A-T026	Enhanced Lower Cost Tooling for Friction Stir Technologies
N18A-T027	Naval Internet of Things (IoT) Effectiveness and Efficiency
N18A-T028	High Throughput Testing of Additive Manufacturing

MDA (Missile Defense Agency) SBIR

MDA18-001	Artificial Intelligence to Simulate Cybersecurity Red Team
MDA18-002	Techniques for Real-time Hypervelocity Projectile fly-out Generation and Optimization
MDA18-003	Hyper-Velocity Projectile (HVP) Warhead Optimization for Lethality
MDA18-004	Advanced Exo-atmospheric Propulsion and Control Systems
MDA18-005	Advanced High End Gyroscopes for Small Form Factor Inertial Measurement Unit Applications
MDA18-006	Lightweight Structures for Future Interceptors
MDA18-007	Radiation Hardened Electronics and Techniques
MDA18-008	Methodologies for the Manufacture of Non-Traditional Kill Vehicle Primary Structures

NGA (National Geospatial-Intelligence Agency) SBIR

NGA181-001	Topographic Feature Extraction from ground-based still and video imagery
NGA181-002	Cloud computing architecture for next generation video
NGA181-003	Suppression of false alarms in Automated Target Recognizers that use Machine Learning
NGA181-004	Automated Assessment of Urban Environment Degradation for disaster relief and reconstruction
NGA181-005	Deriving Uncertainty Estimates for Automated Observations
NGA181-006	Generalized Change Detection to Cue Regions of Interest
NGA181-007	Video to Feature Data Association and Geolocation
NGA181-008	Blending Ground View and Overhead Models
NGA181-009	Miniaturization of Neural Networks for Geospatial Data
NGA181-010	Low-Shot Detection in Remote Sensing Imagery

NGA (National Geospatial-Intelligence Agency) STTR

NGA18A-001	Algorithms for Look-down Infrared Target Exploitation

OSD (Office of the Under Secretary of Defense) SBIR

OSD181-001	High Acceleration and Hypervelocity Inertial Measurement Unit
OSD181-002	Electro-optical Seeker

USSOCOM (U.S. Special Operations Command) SBIR

SOCOM18-001	Automated Processing, Exploitation and Dissemination

SOCOM18-002	Situational Awareness Prediction Tool
SOCOM18-003	Tactical Active Anti-Fogging Goggle or Spectacle
SOCOM18-004	Rapid Acquisition Demonstrator

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SOCOM18A-001	System for Nighttime and Low-Light Face Recognition