

**DoD 2019.1 SBIR Topics**

**DoD 2019.A STTR Topics**

Pre-released November 28, 2018

Open discussion with TPOCs through January 7, 2019

SITIS Q&A Closes January 23, 2019

Proposals accepted January 8; Deadline February 6 at 8 p.m. ET

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**DOD SBIR 2019.1 and STTR 2019.A Topics**

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| [AF19A-T014](https://sbir.defensebusiness.org/topics?topicId=29845) | [Next Generation Energy Storage Devices Capable of 400 Wh/kg and Long Life](https://sbir.defensebusiness.org/topics?topicId=29845) |
| [AF19A-T015](https://sbir.defensebusiness.org/topics?topicId=29846) | [Space-Based Computational Imaging Systems](https://sbir.defensebusiness.org/topics?topicId=29846) |
| [AF19A-T016](https://sbir.defensebusiness.org/topics?topicId=29847) | [Multifunctional Integrated Sensing Cargo Pocket UAS](https://sbir.defensebusiness.org/topics?topicId=29847) |
| [AF19A-T017](https://sbir.defensebusiness.org/topics?topicId=29848) | [Tunable bioinspired spatially-varying random photonic crystals](https://sbir.defensebusiness.org/topics?topicId=29848) |
| [AF19A-T018](https://sbir.defensebusiness.org/topics?topicId=29849) | [Hardware-in-the-loop test bed for magnetic field navigation](https://sbir.defensebusiness.org/topics?topicId=29849) |
| [AF19A-T019](https://sbir.defensebusiness.org/topics?topicId=29850) | [Efficient numerical methods for mesoscale modeling of energetic materials](https://sbir.defensebusiness.org/topics?topicId=29850) |
| [AF19A-T020](https://sbir.defensebusiness.org/topics?topicId=29851) | [Guided Automation of Molecular Beam Epitaxy for Swift Training to Optimize Performance (GAMESTOP) of New Materials](https://sbir.defensebusiness.org/topics?topicId=29851) |
| [AF19A-T021](https://sbir.defensebusiness.org/topics?topicId=29852) | [Carbon-Carbon Manufacturing Process Modeling-Aeroshells](https://sbir.defensebusiness.org/topics?topicId=29852) |

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

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| [DHA19A-001](https://sbir.defensebusiness.org/topics?topicId=29986) | [Real Time, Point of Care, Multi-Functional Blood Coagulopathy Diagnostic](https://sbir.defensebusiness.org/topics?topicId=29986) |

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

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| [DLA191-001](https://sbir.defensebusiness.org/topics?topicId=29992) | [Reverse Engineering Technical Data Packages for Development of Alternate Sources of Supply for DLA Nuclear Enterprise Support Office (NESO)](https://sbir.defensebusiness.org/topics?topicId=29992) |

**Navy SBIR**

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| [N191-001](https://sbir.defensebusiness.org/topics?topicId=30348) | [Multi-Color Long-wave Infrared (LWIR) Imagers for Infantry Applications](https://sbir.defensebusiness.org/topics?topicId=30348) |
| [N191-002](https://sbir.defensebusiness.org/topics?topicId=30371) | [Autonomous Pallet Loader](https://sbir.defensebusiness.org/topics?topicId=30371) |
| [N191-003](https://sbir.defensebusiness.org/topics?topicId=30381) | [Optically-Aided, Non-Global Positioning System (GPS) for Aircraft Navigation Over Water](https://sbir.defensebusiness.org/topics?topicId=30381) |
| [N191-004](https://sbir.defensebusiness.org/topics?topicId=30368) | [Real-Beam Inverse Synthetic Aperture Radar (ISAR) Imaging and Automatic Target Recognition](https://sbir.defensebusiness.org/topics?topicId=30368) |
| [N191-005](https://sbir.defensebusiness.org/topics?topicId=30341) | [Novel Diagnostic Methods for At-Sea Testing of Inertial Navigation System Avionics](https://sbir.defensebusiness.org/topics?topicId=30341) |
| [N191-006](https://sbir.defensebusiness.org/topics?topicId=30358) | [Compact Radio Frequency-to-Optical Transmitter for Airborne Military Environments](https://sbir.defensebusiness.org/topics?topicId=30358) |
| [N191-007](https://sbir.defensebusiness.org/topics?topicId=30346) | [Data Analytics Tools for the Automated Logistics Environment (ALE)](https://sbir.defensebusiness.org/topics?topicId=30346) |
| [N191-008](https://sbir.defensebusiness.org/topics?topicId=30349) | [Improved Quantum Efficiency Photo-Detector](https://sbir.defensebusiness.org/topics?topicId=30349) |
| [N191-009](https://sbir.defensebusiness.org/topics?topicId=30357) | [Reusable MATPAC Packaging System for Expeditionary Airfields](https://sbir.defensebusiness.org/topics?topicId=30357) |
| [N191-010](https://sbir.defensebusiness.org/topics?topicId=30353) | [Miniature Diode-Pumped Solid State Laser for Military and Aerospace Environments](https://sbir.defensebusiness.org/topics?topicId=30353) |
| [N191-011](https://sbir.defensebusiness.org/topics?topicId=30376) | [Automatic Threat Radar Waveform Recognition](https://sbir.defensebusiness.org/topics?topicId=30376) |
| [N191-012](https://sbir.defensebusiness.org/topics?topicId=30344) | [Mid-Wave Infrared Polarization-Maintaining Single Mode Fiber](https://sbir.defensebusiness.org/topics?topicId=30344) |
| [N191-013](https://sbir.defensebusiness.org/topics?topicId=30362) | [Maritime Big Data Analytics](https://sbir.defensebusiness.org/topics?topicId=30362) |
| [N191-014](https://sbir.defensebusiness.org/topics?topicId=30377) | [Brightness Scaling of Quantum Cascade Lasers](https://sbir.defensebusiness.org/topics?topicId=30377) |
| [N191-015](https://sbir.defensebusiness.org/topics?topicId=30384) | [Enhancing Seated Aircrew Endurance](https://sbir.defensebusiness.org/topics?topicId=30384) |
| [N191-016](https://sbir.defensebusiness.org/topics?topicId=30367) | [Clustering and Association for Active Sonar Tracking and Classification](https://sbir.defensebusiness.org/topics?topicId=30367) |
| [N191-017](https://sbir.defensebusiness.org/topics?topicId=30354) | [Enhanced Visualization for Situational Understanding](https://sbir.defensebusiness.org/topics?topicId=30354) |
| [N191-018](https://sbir.defensebusiness.org/topics?topicId=30352) | [Automated Event Logging for Improved Electronic Warfare Operations](https://sbir.defensebusiness.org/topics?topicId=30352) |
| [N191-019](https://sbir.defensebusiness.org/topics?topicId=30382) | [High Performance Computing (HPC) for AEGIS Combat Systems Test Bed (CSTB)](https://sbir.defensebusiness.org/topics?topicId=30382) |
| [N191-020](https://sbir.defensebusiness.org/topics?topicId=30370) | [Target Identification Interrogation Data Stream Analytics System](https://sbir.defensebusiness.org/topics?topicId=30370) |
| [N191-021](https://sbir.defensebusiness.org/topics?topicId=30345) | [Automated Curvilinear Mineline Detection](https://sbir.defensebusiness.org/topics?topicId=30345) |
| [N191-022](https://sbir.defensebusiness.org/topics?topicId=30374) | [3-inch SONAR Countermeasure](https://sbir.defensebusiness.org/topics?topicId=30374) |
| [N191-023](https://sbir.defensebusiness.org/topics?topicId=30351) | [Efficient 3-inch Acoustic Device Countermeasure (ADC) Depth Control System](https://sbir.defensebusiness.org/topics?topicId=30351) |
| [N191-024](https://sbir.defensebusiness.org/topics?topicId=30365) | [Standoff Command and Control of Remotely Operated Vehicles (ROVs)](https://sbir.defensebusiness.org/topics?topicId=30365) |
| [N191-025](https://sbir.defensebusiness.org/topics?topicId=30360) | [Compact High Energy Laser (HEL) Beam Director](https://sbir.defensebusiness.org/topics?topicId=30360) |
| [N191-026](https://sbir.defensebusiness.org/topics?topicId=30347) | [Antennas and Antenna Radomes with Extreme Thermal Shock Resistance for Missile Applications](https://sbir.defensebusiness.org/topics?topicId=30347) |
| [N191-027](https://sbir.defensebusiness.org/topics?topicId=30342) | [Conductivity, Temperature, Depth (CTD) Sensor for Ohio Class Ballistic Missile (SSBN), Ohio Class Guided Missile (SSGN), and Columbia Class Submarines](https://sbir.defensebusiness.org/topics?topicId=30342) |
| [N191-028](https://sbir.defensebusiness.org/topics?topicId=30364) | [Stimulated Brillouin Scattering (SBS) and Other Nonlinear Suppression for High Power Fiber Delivery System for Navy Platform High Energy Laser (HEL)](https://sbir.defensebusiness.org/topics?topicId=30364) |
| [N191-029](https://sbir.defensebusiness.org/topics?topicId=30369) | [Adaptive Radar Algorithms for Next Generation Surface Search Radar](https://sbir.defensebusiness.org/topics?topicId=30369) |
| [N191-030](https://sbir.defensebusiness.org/topics?topicId=30379) | [Risk Reduction and Resiliency Modeling Software for Industrial Control Systems](https://sbir.defensebusiness.org/topics?topicId=30379) |
| [N191-031](https://sbir.defensebusiness.org/topics?topicId=30359) | [Quantum Cascade Laser Manufacturing Cost Reduction](https://sbir.defensebusiness.org/topics?topicId=30359) |
| [N191-032](https://sbir.defensebusiness.org/topics?topicId=30366) | [Artificial Intelligence Real-Time Track Modeling and Simulation for Combat Systems](https://sbir.defensebusiness.org/topics?topicId=30366) |
| [N191-033](https://sbir.defensebusiness.org/topics?topicId=30350) | [Spatially Distributed Electron Beam Gun for High Pulse Repetition Rate Operation](https://sbir.defensebusiness.org/topics?topicId=30350) |
| [N191-034](https://sbir.defensebusiness.org/topics?topicId=30363) | [Automated Multi-System Course of Action Analysis Using Artificial Intelligence](https://sbir.defensebusiness.org/topics?topicId=30363) |
| [N191-035](https://sbir.defensebusiness.org/topics?topicId=30380) | [Fat Line Towed Array Aft Stabilizer](https://sbir.defensebusiness.org/topics?topicId=30380) |
| [N191-036](https://sbir.defensebusiness.org/topics?topicId=30375) | [Big Data Tools for High-speed Threat Detection and Classification](https://sbir.defensebusiness.org/topics?topicId=30375) |
| [N191-037](https://sbir.defensebusiness.org/topics?topicId=30356) | [Cyber Secure Backbone for Autonomous Vehicles](https://sbir.defensebusiness.org/topics?topicId=30356) |
| [N191-038](https://sbir.defensebusiness.org/topics?topicId=30343) | [Through-the-Hull Data Transfer](https://sbir.defensebusiness.org/topics?topicId=30343) |
| [N191-039](https://sbir.defensebusiness.org/topics?topicId=30372) | [High Operating Temperature (HOT) Short-Wave Infrared/Mid-Wave Infrared (SWIR/MWIR) Dual-band 2-channel and Broadband Detectors for Weapon Targeting and IR Seekers](https://sbir.defensebusiness.org/topics?topicId=30372) |
| [N191-040](https://sbir.defensebusiness.org/topics?topicId=30383) | [Open Cell Ring Down Spectrometer to Measure Atmospheric Visible and Infrared Ambient Light Extinction](https://sbir.defensebusiness.org/topics?topicId=30383) |
| [N191-041](https://sbir.defensebusiness.org/topics?topicId=30355) | [Development of Long-Life, Energy-Dense Batteries Using Alpha-Beta Emitting Isotopes/Isomers](https://sbir.defensebusiness.org/topics?topicId=30355) |
| [N191-042](https://sbir.defensebusiness.org/topics?topicId=30361) | [Developing an Intermediate Augmented Reality Capability for Infantry](https://sbir.defensebusiness.org/topics?topicId=30361) |
| [N191-043](https://sbir.defensebusiness.org/topics?topicId=30378) | [Development of Ultrasonically Absorptive Aeroshell Materials for Hypersonic Boundary Layer Transition (BLT) Delay](https://sbir.defensebusiness.org/topics?topicId=30378) |
| [N191-044](https://sbir.defensebusiness.org/topics?topicId=30373) | [Undersea Energy Harvesting from Benthic Gas Seeps and Hydrates](https://sbir.defensebusiness.org/topics?topicId=30373) |

**NAVY STTR**

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| [N19A-T001](https://sbir.defensebusiness.org/topics?topicId=30319) | [Optimized Higher Power Microwave Sources](https://sbir.defensebusiness.org/topics?topicId=30319) |
| [N19A-T002](https://sbir.defensebusiness.org/topics?topicId=30337) | [Enhanced Sensor Resource Management Utilizing Bayesian Inference](https://sbir.defensebusiness.org/topics?topicId=30337) |
| [N19A-T003](https://sbir.defensebusiness.org/topics?topicId=30321) | [Innovations in Designing Damage Tolerant Rotorcraft Components by Interface Tailoring](https://sbir.defensebusiness.org/topics?topicId=30321) |
| [N19A-T004](https://sbir.defensebusiness.org/topics?topicId=30317) | [Process to Mitigate Catastrophic Optical Damage to Quantum Cascade Lasers](https://sbir.defensebusiness.org/topics?topicId=30317) |
| [N19A-T005](https://sbir.defensebusiness.org/topics?topicId=30325) | [Quantum Cascade Laser Array with Integral Wavelength Beam Combining](https://sbir.defensebusiness.org/topics?topicId=30325) |
| [N19A-T006](https://sbir.defensebusiness.org/topics?topicId=30334) | [Atomic Triaxial Magnetometer](https://sbir.defensebusiness.org/topics?topicId=30334) |
| [N19A-T007](https://sbir.defensebusiness.org/topics?topicId=30332) | [Power-Dense Electrical Rotating Machines for Propulsion and Power Generation](https://sbir.defensebusiness.org/topics?topicId=30332) |
| [N19A-T008](https://sbir.defensebusiness.org/topics?topicId=30336) | [Optical Emulator of Complex Electromagnetic Maneuverability (EM) Systems with Nanophotonics](https://sbir.defensebusiness.org/topics?topicId=30336) |
| [N19A-T009](https://sbir.defensebusiness.org/topics?topicId=30330) | [3-Band PicoSecond High Energy Compact (SWaP) Laser System for Marine Wave Boundary Layer Atmospheric Characterization Instrument Development](https://sbir.defensebusiness.org/topics?topicId=30330) |
| [N19A-T010](https://sbir.defensebusiness.org/topics?topicId=30324) | [Comprehensive Surf Zone Modeling Tool](https://sbir.defensebusiness.org/topics?topicId=30324) |
| [N19A-T011](https://sbir.defensebusiness.org/topics?topicId=30339) | [Remotely Operated Vehicle (ROV) Deployed Underwater Attachment](https://sbir.defensebusiness.org/topics?topicId=30339) |
| [N19A-T012](https://sbir.defensebusiness.org/topics?topicId=30329) | [Unified Logging Architecture for Performance and Cybersecurity Monitoring](https://sbir.defensebusiness.org/topics?topicId=30329) |
| [N19A-T013](https://sbir.defensebusiness.org/topics?topicId=30320) | [Advanced Power Density Improvements to Electrical Generation Systems](https://sbir.defensebusiness.org/topics?topicId=30320) |
| [N19A-T014](https://sbir.defensebusiness.org/topics?topicId=30327) | [Low-Cost, High-Density, Harsh Environment, Miniature Electrical Connector](https://sbir.defensebusiness.org/topics?topicId=30327) |
| [N19A-T015](https://sbir.defensebusiness.org/topics?topicId=30331) | [Marine Atmospheric Modeling, Data Collection, Visualization & Metrological Toolset for Submarine Electromagnetic (EM) Maneuverability](https://sbir.defensebusiness.org/topics?topicId=30331) |
| [N19A-T016](https://sbir.defensebusiness.org/topics?topicId=30323) | [Quench Monitoring and Control System for High-Temperature Superconducting Coils](https://sbir.defensebusiness.org/topics?topicId=30323) |
| [N19A-T017](https://sbir.defensebusiness.org/topics?topicId=30322) | [Predictive Graph Convolutional Networks](https://sbir.defensebusiness.org/topics?topicId=30322) |
| [N19A-T018](https://sbir.defensebusiness.org/topics?topicId=30335) | [FPGA Vulnerability Analysis Tools](https://sbir.defensebusiness.org/topics?topicId=30335) |
| [N19A-T019](https://sbir.defensebusiness.org/topics?topicId=30318) | [Unmanned Aerial System with Infinite Energy Scavenging](https://sbir.defensebusiness.org/topics?topicId=30318) |
| [N19A-T020](https://sbir.defensebusiness.org/topics?topicId=30333) | [Data Analytics and Machine Learning to Accelerate Materials Design and Processing Development](https://sbir.defensebusiness.org/topics?topicId=30333) |
| [N19A-T021](https://sbir.defensebusiness.org/topics?topicId=30326) | [Forensic Models of Cyberspace Behaviors](https://sbir.defensebusiness.org/topics?topicId=30326) |
| [N19A-T022](https://sbir.defensebusiness.org/topics?topicId=30338) | [Reduced Order Modeling (ROM) for UUV/USV Environmental Awareness](https://sbir.defensebusiness.org/topics?topicId=30338) |
| [N19A-T023](https://sbir.defensebusiness.org/topics?topicId=30328) | [Photonic-Integrated-Circuit Spectrometer](https://sbir.defensebusiness.org/topics?topicId=30328) |
| [N19A-T024](https://sbir.defensebusiness.org/topics?topicId=30340) | [Detection of Crowd Manipulation in Social Media](https://sbir.defensebusiness.org/topics?topicId=30340) |

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

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| [NGA191-001](https://sbir.defensebusiness.org/topics?topicId=29964) | [Unsupervised Techniques for SAR Imagery](https://sbir.defensebusiness.org/topics?topicId=29964) |
| [NGA191-002](https://sbir.defensebusiness.org/topics?topicId=29965) | [Crowd-Sourcing Statistical Study for Automated Video Quality Assessment Ground Truth](https://sbir.defensebusiness.org/topics?topicId=29965) |
| [NGA191-003](https://sbir.defensebusiness.org/topics?topicId=29966) | [Automated VNIIRS Assessment of Motion Imagery](https://sbir.defensebusiness.org/topics?topicId=29966) |
| [NGA191-004](https://sbir.defensebusiness.org/topics?topicId=29967) | [Improved still frames and denoised motion imagery from distressed full motion video (FMV)](https://sbir.defensebusiness.org/topics?topicId=29967) |
| [NGA191-005](https://sbir.defensebusiness.org/topics?topicId=29968) | [Collaborative Recommender System for Spatio-Temporal Intelligence Documents](https://sbir.defensebusiness.org/topics?topicId=29968) |
| [NGA191-006](https://sbir.defensebusiness.org/topics?topicId=29969) | [Automating the Semantic Labeling of Trajectory Data](https://sbir.defensebusiness.org/topics?topicId=29969) |
| [NGA191-007](https://sbir.defensebusiness.org/topics?topicId=29970) | [Improving Automation through Gamification](https://sbir.defensebusiness.org/topics?topicId=29970) |
| [NGA191-008](https://sbir.defensebusiness.org/topics?topicId=29971) | [Improved detection sensitivity, geolocation accuracy, and create novel GEOINT products for OTHR radar systems](https://sbir.defensebusiness.org/topics?topicId=29971) |
| [NGA191-009](https://sbir.defensebusiness.org/topics?topicId=29972) | [Automated object quantity estimation for Radar Imagery](https://sbir.defensebusiness.org/topics?topicId=29972) |
| [NGA191-010](https://sbir.defensebusiness.org/topics?topicId=29973) | [Innovative methods for detecting and characterizing electrical grid topologies and induced electrical power transient events from lights](https://sbir.defensebusiness.org/topics?topicId=29973) |
| [NGA191-011](https://sbir.defensebusiness.org/topics?topicId=29974) | [Multi-hop processing for OTHR range extension](https://sbir.defensebusiness.org/topics?topicId=29974) |

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

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| [OSD191-001](https://sbir.defensebusiness.org/topics?topicId=30314) | [Artificial Intelligence Tool for Medical Coding and Documentation Improvement](https://sbir.defensebusiness.org/topics?topicId=30314) |

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

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| [SOCOM191-001](https://sbir.defensebusiness.org/topics?topicId=29987) | [Austere Environment Virtual Planning Tool](https://sbir.defensebusiness.org/topics?topicId=29987) |
| [SOCOM191-002](https://sbir.defensebusiness.org/topics?topicId=29988) | [Automated Synthetic Shortwave Infrared Image Creation From Near Wave Infrared and Electro Optical Imagery](https://sbir.defensebusiness.org/topics?topicId=29988) |
| [SOCOM191-003](https://sbir.defensebusiness.org/topics?topicId=29989) | [Low Profile Night Vision Goggle Mounting Solution](https://sbir.defensebusiness.org/topics?topicId=29989) |
| [SOCOM191-004](https://sbir.defensebusiness.org/topics?topicId=29990) | [Next Generation Graph](https://sbir.defensebusiness.org/topics?topicId=29990) |

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

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| |  |  | | --- | --- | | [SOCOM19A-001](https://sbir.defensebusiness.org/topics?topicId=29991) | [Low Visibility Radio Frequency Resonator](https://sbir.defensebusiness.org/topics?topicId=29991) | |  |