

MDA SBIR FY10 (09.3) Phase I Selections - By Topic

Firm Name	Topic Number	Proposal Title
Analytical Services, Inc.	MDA09-001	Constant Pressure Aerospike for Interceptor Axial Propulsion
Digital Solid State Propulsion LLC	MDA09-001	Innovative Propulsion Systems for Missile Defense Interceptors
Dynamic Structures and Materials, LLC	MDA09-001	Light Weight Controllable Thrust Actuation for Innovative Propulsion System for Missile Defense Interceptors
Exquadrum, Inc	MDA09-001	Innovative Motor Propellant Technology
EpiWorks, Inc.	MDA09-002	Novel LWIR Detector Technology for high-yield, large format FPAs
Intelligent Epitaxy Technology, Inc.	MDA09-002	Type II SLS for 2-Color FPA for Interceptor Seekers
JGM Associates, Inc.	MDA09-002	Compact Dual-mode Laser for LADAR
Vega Technology & Systems Inc.	MDA09-002	Interceptor Seekers
Voxel Inc.	MDA09-002	Non-Avalanche Gain Detector for High-Resolution Single-Photon and Dual Mode Applications
KION defense Technologies Inc	MDA09-003	Zr- and Hf- Based Composite Structures for Advanced Divert and Attitude Control Systems
Plasma Processes, Inc.	MDA09-003	Advanced Monopropellant Microchannel DACS
Ultramet	MDA09-003	Low-Cost Refractory Metal-Lined Graphite Components for Advanced SDACS
Valley Tech Systems	MDA09-003	Re-Ignition Integrated Low Level ACS (RILLACS)
NanoSonic, Inc.	MDA09-004	Super Lightweight, Rad Hard, Morphing, Synergistic Structures for BMDS Kill Vehicles
San Diego Composites, Inc.	MDA09-004	Advanced Synergistic Structures for Interceptor Kill Vehicles
LithChem Energy	MDA09-005	High Energy / Power Density Rechargeable Lithium Batteries Based on Advanced Materials
TIAX LLC	MDA09-005	Rechargeable Lithium Ion Battery with Enhanced Reliability & Safety for Missile Defense Applications
AET, Inc.	MDA09-006	Development and Packaging of Radiation Immune Nano-Diamond Integrated Circuits for Advanced Interceptor Avionics
Archangel Systems, Inc.	MDA09-006	Extreme-SWAP IMU for Missiles and Interceptors: Rad-hard
Intelligent Fiber Optic Systems Corporation	MDA09-006	Inertial Rate Sensors for Next Generation Interceptors
SA Photonics	MDA09-006	Advanced Interceptor Avionics
Adherent Technologies, Inc.	MDA09-007	Thermal Protective Coatings for Interceptor Missiles
American Technical Coatings, Inc	MDA09-007	Advanced Materials & Processing Technology for Missile Defense Applications
Applied Thin Films, Inc.	MDA09-007	High-Emissivity Ceramic Matrix Composites for Hypersonic Airframes
San Diego Composites, Inc.	MDA09-007	Improved Permeation Barriers in Lightweight Cost Effective Missile Canisters
NexGenSemi Corporation	MDA09-008	Sub65nm RH Annular Devices by Direct Write FIB
Radiation Assured Devices, Inc.	MDA09-008	Development of Standardized Testing and Modeling for Neutron Single Event Effects in Integrated Circuits
Structured Materials Industries	MDA09-008	Advancing CRAM Producibility
GammaTech, Inc	MDA09-009	Antitamper Technology for Missile Defense
Lewis Innovative Technologies, Inc.	MDA09-009	Antitamper Technology for Missile Defense
Verayo, Inc.	MDA09-009	Antitamper Technology for Missile Defense
ENSER Corporation, The	MDA09-010	Advancements in Thermal Battery Pellet Manufacture
ENSER Corporation, The	MDA09-010	Automated Thermal Battery Assembly
InvenTek Corporation	MDA09-010	Ballistic Missile Defense System Innovative Power Storage Devices
Quallion LLC	MDA09-010	Ballistic Missile Defense System Innovative Power Storage Devices - Battery materials
ADVANCED MATERIALS AND MANUFACTURING TECHNOLOGIES	MDA09-011	Low Cost Process Technology For Smart Sensor Materials
Fibertek, Inc.	MDA09-011	Active Sensor Materials and Process Technology Innovations
STIMULUS Engineering Services, Inc.	MDA09-011	Ultra High-Speed Video Processing for High Resolution Electro-Optical Sensors
C9 Corporation	MDA09-012	Development of a High Strength Low Thermal Diffusivity Insulator Material
CalRAM, Inc.	MDA09-012	Electron Beam Melting Manufacturing for DACS Divert Dome
Frontier Engineering	MDA09-012	Manufacturing Process Maturation for Propulsion Technology
KION defense Technologies Inc	MDA09-012	Manufacturing Improvements of Zr-Based DACS Components
Aerius Photonics, LLC.	MDA09-013	High-performance, cost-effective SLS arrays using conventional III-V processes
Maxion Technologies, Inc.	MDA09-013	High Performance Infrared Focal Plane Arrays with Advanced Quantum Structures
MP Technologies, LLC	MDA09-013	Type-II InAs/GaSb material development for two color focal plane arrays
QmagiQ, LLC	MDA09-013	SLS Photodiodes Grown by MOCVD
Intelligent Epitaxy Technology, Inc.	MDA09-014	Development of Radiation Hardened Type II SLS for Smart IR FPA for Space Applications
Spire Semiconductor, LLC	MDA09-014	Development and Demonstration of High-Performance InAs/GaSb Superlattice Long Wavelength Infrared Focal Plane Arrays through Improved Sidewall Passivation
Voxel Inc.	MDA09-014	Large-Format Dual-Use Radiation-Hard ROIC for IRFPAs and Star-Trackers
FIRST RF CORPORATION	MDA09-015	Radar Multi-Beam Receive Arrays
HYPRES, Inc.	MDA09-015	Low Cost, Scalable Radar Receive Array Using True Time Delay
Innovative Technology, Inc.	MDA09-015	Radar Multi-Beam Receive Arrays
Crystal Research, Inc.	MDA09-016	A Fast Scanning Photonic Multi-Beam Receive Array for BMD Applications
EOSPACE Inc	MDA09-016	High Resolution RF-Photonic Beam-Forming for Multi-Beam Receive Arrays
Intelligent Fiber Optic Systems Corporation	MDA09-016	Wavelength-Switching Photonic Beamformer for Steering Multiple Simultaneous RF-Beams
SA Photonics	MDA09-016	Photonic Multi-Beam Receive Arrays

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Capraro Technologies, Inc.	MDA09-017	Multistatic chaotic waveform design for improved missile defense radar systems
Helios Remote Sensing Systems, Inc.	MDA09-017	Innovative Waveforms and Related Signal Processing for Missile Defense Radars
Optimal Synthesis Inc.	MDA09-017	A Unified Orthogonal Communication Framework for Adaptive Waveform Design of Missile Defense Radars
Physical Optics Corporation	MDA09-017	Quasi-Orthogonal Burst Enhanced Radar Tomography
Technology Service Corporation	MDA09-017	Innovative Waveforms and Related Signal Processing for Missile Defense Radars
deciBel Research, Inc.	MDA09-018	Clutter Suppression and Debris Mitigation Techniques and Algorithms for Missile Defense Radars
Physical Sciences Inc.	MDA09-018	Multi-tiered debris and clutter mitigation for BMD radar signal processors
Technology Service Corporation	MDA09-018	Debris Mitigation for Missile Defense Radars
Libration Systems Management, Inc.	MDA09-019	Innovative Low-Cost Encrypted Mobile Ground Systems
Aqwest	MDA09-020	Payload Thermal Management Technology
Atlas Scientific	MDA09-020	Integrated Circulator for Regenerative Cryocoolers
Peregrine Falcon Corporation	MDA09-020	Payload Thermal Management Technology
Frontier Technology, Inc.	MDA09-021	Improvements in Spacecraft Assembly, Integration and Test
UtopiaCompression, Corporation	MDA09-021	Reactive Planning Framework for Spacecraft Assembly Integration & Testing
CapeSym, Inc.	MDA09-022	CZT Substrates for Improved MCT Detector Performance
Nu-Trek	MDA09-022	Large Format Space Focal Plane Array Technologies
Photronix	MDA09-022	Large Format Space Focal Plane Array Technologies
TELAZTEC LLC	MDA09-022	Yield Enhancing AR Treatment Process For Large Format Space FPAs
Kent Optronics, Inc	MDA09-023	Enhanced Spacecraft Survivability
Sensing Strategies, Inc.	MDA09-023	Enhanced Spacecraft Survivability
International Photonics Consultants, Inc.	MDA09-024	Radiation Hard Fast Light Semiconductor Ring Laser Gyro
Sinmat Inc	MDA09-024	Novel Reactive Chemical Mechanical Polishing (RCMP) Technology for fabrication of Large, Non-flat SiC mirrors
Trex Enterprises Corporation	MDA09-024	Dimensionally Stable and Survivable Silicon Carbide Telescope for Next Generation STSS System
Intrinsic	MDA09-025	Radiation Hardened Monolithic Heterogeneous Processors
Numerica Corporation	MDA09-026	Resource Optimization for Battle Management
Scientific Systems Company, Inc	MDA09-026	Unified Interceptor Assignment Algorithms
Vcrsoft LLC	MDA09-026	Game Theoretic Resource Optimization for Battle Management
WarpIV Technologies, Inc.	MDA09-026	Resource Optimization for Battle Management
ExoAnalytic Solutions, Inc	MDA09-027	SysTRAAK Multiple Hypothesis Track Correlation
Physical Sciences Inc.	MDA09-027	Multi-Sensor Ascent Phase Track Correlation
Propagation Research Associates	MDA09-027	Track Correlation
SciTec, Inc.	MDA09-027	Track Correlation
Capraro Technologies, Inc.	MDA09-028	Multistatic signature feature estimation for improved target discrimination
ExoAnalytic Solutions, Inc	MDA09-028	Multi-Spectral Countermeasure and Debris Identification and Mitigation Algorithm Suite
MARK Resources, Inc.	MDA09-028	Discrimination via Complex-Image Analysis
Applied Defense Solutions Inc.	MDA09-029	Radiation Hardened End-to-End Communication Links
MAGICOM LLC	MDA09-029	Radiation Hardened End-to-End Communication Links
Welkin Sciences, LLC	MDA09-029	Radiation Hardened End-to-End Communication Links
GammaTech, Inc	MDA09-030	Information Assurance
METRONOME SOFTWARE, LLC	MDA09-030	Information Assurance
Reifer Consultants, Inc.	MDA09-030	Information Assurance
Sentar, Inc.	MDA09-030	Decision Support for Software Code Analysis
Combustion Research and Flow Technology, Inc.	MDA09-031	Effects of Hardbody-Plume Interactions on Radar Returns
Propulsion Science and Technology, Inc.	MDA09-031	Effects of Hardbody-Plume Interactions on Radar Returns
Spectral Sciences, Inc.	MDA09-032	Advanced Spectral Signature Models for Rocket Plumes
Combustion Research and Flow Technology, Inc.	MDA09-033	Plume EO-RCS Data Fusion
Propulsion Science and Technology, Inc.	MDA09-033	Plume EO-RCS Data Fusion
Applied Quantum Technologies	MDA09-034	Terahertz Signature Modeling for Kill Assessment and Warhead Materials Identification
Spectral Sciences, Inc.	MDA09-034	Development of a Terahertz Typing Toolkit for Interceptor Kill Assessment
AEgis Technologies Group, Inc.	MDA09-035	Creation of a Global UV-VIS-IR Ocean Background Model That is a Function of Time, Location and Sea State
Arete Associates	MDA09-035	Creation of a Global UV-VIS-IR Ocean Background Model That is a Function of Time, Location and Sea State
Computational Physics, Inc.	MDA09-035	Creation of a Global UV-VIS-IR Ocean Background Model That is a Function of Time, Location and Sea State
Spectral Sciences, Inc.	MDA09-035	The OCEANS global UV-VIS-IR Ocean Background Model
Accurate Automation Corporation	MDA09-036	High Power PM Fiber Laser Coupler
Agiltron Corporation	MDA09-036	Highly Reliable and Efficient High Power Pump Coupler for Fiber Lasers
EOSPACE Inc	MDA09-036	HIGH-POWER-HANDLING INTEGRATED OPTICS COHERENT BEAM COMBINER
UES, Inc.	MDA09-036	A Development of Ceramic YAG Fibers for High Power Laser Applications
Aerius Photonics, LLC.	MDA09-037	High-efficiency vertical-cavity laser diode pumps for high-energy solid-state lasers

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Information Systems Laboratories, Inc.	MDA09-037	High Brightness and Power DPSS Laser Illuminator
nLight Photonics	MDA09-037	High Energy Laser Technology Innovations for BMDS Directed Energy, Tracking, and Illumination
Aerius Photonics, LLC.	MDA09-038	Photon-Counting Focal Plane Arrays for Active Sensing from 0.4-2.5 μ m Wavelength
EPIR Technologies Inc	MDA09-038	Near-infrared, Linear Mode, Photon Counting HgCdTe Focal Plane Arrays
Nova Research, Inc. DBA Nova Sensors	MDA09-038	High Speed, High Dynamic Range Near Infrared Active Imaging System
Voxtel Inc.	MDA09-038	High Rate Single Photon Sensitive Coded LADAR Receiver
Left Hand Design Corporation	MDA09-039	High Energy Laser and Laser Illumination Optics Improvements
Precision Photonics Corporation	MDA09-039	High Energy Laser and Laser Illumination Optics Improvements
Trex Enterprises Corporation	MDA09-039	Advanced Multi-Purpose NIR/MWIR Dual-Band Coatings and Mirrors for HEL Beam Control Systems
AdTech Optics Inc.	MDA09-040	High Power Mid-infrared Quantum Cascade Lasers for BMDS and other applications
nLight Photonics	MDA09-040	High Power, Narrow Linewidth 2-micron Diode Laser Sources
Power Photonic	MDA09-040	High Powered Laser Diodes for Pump Sources and other BMDS applications
Pranalytica, Inc.	MDA09-040	Bridging the 3 to 4 μ m Spectral Gap: High Performance Antimonide-based Quantum Cascade Lasers