

## Rapid Innovation Fund -- FY 2017 Funded Projects Total: 118 Project Awards

Project Title	Contractor	City	State	Zip	Technology Area
<b>AIR FORCE: 26 Projects</b>					
Risk Identification Tool	Edaptive Computing, Inc.	Dayton	OH	45458	Engineered Resilient Systems
3-in-1 Systems Engineering Data Management Tool	Edaptive Computing, Inc.	Dayton	OH	45458	Engineered Resilient Systems
Transition of Durable, Lightweight Abrasion-Resistant Composite Coatings	Applied Sciences, Inc.	Cedarville	OH	45314	Materials & Manufacturing Processes
Nuclear Flash Blindness Eye Protection Device	Physical Optics Corporation	Torrance	CA	90501	Advanced Electronics
Accelerated Transition of Liquid Crystal Devices for Flash Blindness Protection	Universal Technology Corporation	Dayton	OH	45432	Advanced Electronics
Advanced Analytics to Support Weapons Certification for 5th/6th Generation Platforms	M4 Engineering	Long Beach	CA	90807	Weapons Technologies
Modernized Framework for Air Force Supply Chain Management Incorporating Mobile Devices	1Prospect Technologies, LLC	Milwaukee	WI	53208	Cybersecurity
Communications Security Monitoring in an Assured Services Session Initiation Protocol Network	SecureLogix	San Antonio	TX	78238	Cybersecurity
Supervisory Control And Data Acquisition Management	Grier Forensics	Pikesville	MD	21208	Cybersecurity
Automated Test and Re-Test Information Security Manager Attack Vector Analysis	Innovative Defense Technologies	Arlington	VA	22203	Cybersecurity

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Cloud-Based Virtualized Weather Squadron Operations	Solid State Scientific Corporation	Hollis	OH	03049	Networked Command, Control, & Communications
Multi-Domain Mission Planning Environment	The Perduco Group	Beavercreek	OH	45431	Networked Command, Control, & Communications
Reconfiguration of Obsolete Programmable Integrated Circuits Using Extracted Die from New Generation Designs	Global Circuit Innovations, Inc.	Colorado Springs	CO	64670	Microelectronics
High-definition Data and Video Recorder for A-10	Physical Optics Corporation	Torrance	CA	90501	Advanced Electronics
An Integrated Tool for Prognostic Maintenance Analytics	Etegent Technologies Ltd.	Cincinnati	OH	45212	Air Platforms
Signals Intelligence Data Compression	Valley Tech Systems, Inc.	Folsom	CA	95630	Sensors & Processing
MQ-9 Inverter	PC Krause and Associates, Inc.	West Lafayette	IN	47906	Energy & Power Technology
Common Enhanced Tactical Situation Display	Infoscitex Corporation	Dayton	OH	45431	Networked Command, Control, & Communications
Condor - Airborne Target Recognition	Progeny Systems Corporation	Manassas	VA	20110	Artificial Intelligence / Machine Learning
Whisper Personal Area Network	Asymmetric Technologies	Columbus	OH	43212	Networked Command, Control, & Communications
Development of a Human-Assisted Automated Wiring Harness Manufacturing System for Aircraft Platforms	BJN Technologies, LLC	San Antonio	TX	78238	Materials & Manufacturing Processes
Model-Based Fault Identification and Isolation for Modular Open System Approach Platforms	Cateni, Inc.	El Segundo	CA	90245	Space

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Restoring National Solar Cell Calibration Balloon Flight Capability	Angstrom Designs	Santa Barbara	CA	93101	Energy & Power Technology
Qualify ZeroVolt - the Highest "Usable Energy" Space Battery Cell	EnerSys Advanced Systems, Inc.	Reading	PA	19605	Energy & Power Technology
Mature Reserve Lithium Battery for Missile Applications	MaxPower, Inc.	Harleysville	PA	19405	Energy & Power Technology
Improved Replacement Backup Battery for the Minuteman III Silo Ground Power	BST Systems, Inc.	Plainfield	CT	06374	Energy & Power Technology

**ARMY: 37 Projects**

Variable Simulation Tools for Rotorcraft	Advanced Rotorcraft Technology, Inc.	Sunnyvale	CA	94085	Engineered Resilient Systems
Micro-Zoomable Imaging Payloads for nano-Unmanned Aircraft System (UAS) Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance (C4ISR) Applications	Manufacturing Techniques, Inc.	Lorton	VA	22079	Sensors & Processing
Affordable C4ISR Technologies / Aviator's Night Vision Imaging System with Display	L3 Technologies, Inc./ Insight Technology	Londonderry	NH	03053	Networked Command, Control, & Communications
3GEN Dewar-Cooler Bench with III-V SLS FPAs	Raytheon Vision Systems	Goleta	CA	93117	Advanced Electronics
Development of a 7.62x39 M1943 MSC Lightweight Helmet	Leading Technology Composites	Wichita	KS	67213	Human Systems
Multi-Fuel Reformer for Battlefield Hydrogen	TDA Research, Inc.	Wheat Ridge	CO	80033	Energy & Power Technology

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Compact Lightweight JP- 8 Reformer for Fuel Cell Applications	Precision Combustion, Inc.	North Haven	CT	06473	Energy & Power Technology
Deployed Force-Protection Planning, Visualization and Assessment Tool	Summerwind Consultants, Inc.	Wesson	MS	39191	Networked Command, Control, & Communications
Tactical Terrestrial Sensor Performance Services / Advanced Terrestrial Sensor Performance Services	Atmospheric and Environmental Research, Inc.	Lexington	MA	02421	Networked Command, Control, & Communications
High Performance Techniques to Identify the Source and Authenticity of Digital Videos Using Multimedia Forensics	Drexel University	Philadelphia	PA	19104	Artificial Intelligence / Machine Learning
Man-Portable, Low Cost Pointing Device for Mortar Digital Fire Control	Inertial Labs, Inc.	Paeonian Springs	VA	20129	Weapons Technologies
Shoulder Launched Tandem Warhead (Saab AT4 CS TW)	Saab North America	Ashburn	VA	20147	Weapons Technologies
Raytheon Guided Carl- Gustaf Munition	Raytheon Missile Systems	Tucson	AZ	85756	Weapons Technologies
Mobile Ad-Hoc Networking in Congested and Contested Environments prototype	Silvus Technologies	Los Angeles	CA	90024	Networked Command, Control, & Communications
Tactical Cloud Hyper-converged Infrastructure for Secure Edge Operations prototype	Beatty and Company	Rancho Santa Fe	CA	92067	Networked Command, Control, & Communications
4G Long-Term Evolution (LTE) Tactical Edge Network Prototype	Oceus Networks	Reston	VA	20191	Networked Command, Control, & Communications
ClearConnect Iridium Mission Module prototype	Thales	Clarksburg	MD	20871	Networked Command, Control, & Communications
Dismount/Reduced Size, Weight, and Power (SWaP) Blue Force Tracking Radio	ViaSat	Carlsbad	CA	92009	Networked Command, Control, & Communications

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Low Probability of Detection/Interception LTE-Based Communications Channel Prototype	Persistent Systems LLC	New York City	NY	10016	Networked Command, Control, & Communications
External Liquid-Metal-Based Fuel Level Sensor for Sealed Bladders	Bend LLC (operates as Teveri LLC)	Salt Lake City	UT	84108	Sensors & Processing
Modular On-Board Data Acquisition System	R Cubed Engineering LLC	Palmetto	FL	34221	Networked Command, Control, & Communications
Large Format Color Low Light Level Focal Plane Arrays (FPAs)	St. Johns Optical Systems LLC	Sanford	FL	32771	Advanced Electronics
Demonstration of Protected Next Generation Common Data Link Waveforms	ANDRO Computational Solutions, LLC	Rome	NY	13440	Networked Command, Control, & Communications
Modular Assured Communications and Electronic Warfare	Physical Optics Corporation	Torrance	CA	90501	Networked Command, Control, & Communications
Geothermal Control for Expeditionary Basing	HDT Expeditionary Systems, Inc.	Fredericksburg	VA	22408	Energy & Power Technology
Environmental Control Unit (ECU) Micro-Grid Controller	Applied Research Associates, Inc.	Albuquerque	NM	87110	Advanced Electronics
Micro-Grid-Compatible Smart ECU	HDT Expeditionary Systems, Inc.	Fredericksburg	VA	22408	Advanced Electronics
Autonomous Inflatable Bridge Launch and Retrieval	HDT Expeditionary Systems, Inc.	Fredericksburg	VA	22408	General Warfighting Requirement
Enhanced ALERT	Irvine Sensors Corporation	Costa Mesa	CA	92626	Artificial Intelligence / Machine Learning
SPOTR Enhancements	Progeny Systems Corporation	Manassas	VA	20110	Artificial Intelligence / Machine Learning

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Small UAS Detection, Classification, and Localization Utilizing the Hiawatha System	Nokomis, Inc.	Charleroi	PA	15022	Sensors & Processing
3rd-Generation Dewar-Cooler Bench with III-V Strained Layer Superlattice (SLS) FPAs	Raytheon Vision Systems	Goleta	CA	93117	Advanced Electronics
SLS FPAs for 3rd-Generation FLIR	QmagiQ, LLC	Nashua	NH	03063	Advanced Electronics
Superhard Armor for Improved Ballistic Performance and Reduced Weight	ATS-MER, LLC	Tucson	AZ	85756	Materials & Manufacturing Processes
SWaP Reduction of Handheld Counter Sensor Detection System	Fibertek, Inc.	Herndon	VA	20171	Sensors & Processing
Beam 90	Torrey Pines Logic	San Diego	CA	92130	Sensors & Processing
Soldier Wearable Portable Power System / Wi-Fi Protected Setup Electromagnetic Interference Ruggedization and Cost	Ardica Technologies, Inc.	San Francisco	CA	94107	Energy & Power Technology

<b>NAVY: 26 Projects</b>					
Optimization of Lightweight, Multicomponent Ballistic Protection for Aircraft	Kennon Products, Inc.	Sheridan	WY	82801	Materials & Manufacturing Processes
Agile Manufacturing Using New Additive Manufacturing (AM) Technology for Aluminum or Other Metal Parts	Grid Logic Incorporated	Auburn Hills	MI	48326	Materials & Manufacturing Processes
Intelligent Data Registration - Part A	Heron Systems, Inc.	California	MD	20619	Command, Control, Communications, Computers, & Intelligence

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M777A2 Conditioned-Based Maintenance Plus	Trident Systems Incorporated	Fairfax	VA	22030	Ground & Sea Platforms
Autonomous Contour Crafting System for Agile On-Site Construction	Contour Crafting Corporation	El Segundo	CA	90245	General Warfighting Requirement
Long Range Obscurant System	Raytheon Company	Tucson	AZ	85756	Weapons Technologies
Ares Biometrics Solution	InCadence Strategic Solutions	Manassas	VA	20136	Cybersecurity
Aircraft Component Tracking System Enterprise Edition	Technical Data Analysis, Inc.	Falls Church	VA	22042	Air Platforms
Rapid Geolocation of Submarine Surface Search Radars	Information Systems Laboratories	Vienna	VA	22182	Command, Control, Communications, Computers, & Intelligence
Multi User Distributed Lethality Relay-Fuse Integration	Fuse Integration	San Diego	CA	92101	Networked Command, Control, & Communications
Accelerate the Introduction of Key Future Payloads into Submarines	Progeny Systems Corporation	Manassas	VA	20110	Engineered Resilient Systems
Digital Receiver Exciter Direct Radio Frequency (RF) for SPS-49	Colorado Engineering, Inc.	Colorado Springs	CO	80920	Sensors & Processing
Distance Communication Maintenance System Deployment	Mechanical Solutions, Inc.	Whippany	NJ	07981	Networked Command, Control, & Communications
Advanced Submarine Control	Progeny Systems Corporation	Manassas	VA	20110	Ground & Sea Platforms
Modernization and Enhancement to Improving Warfighting Affordability, Capability, and Commonality	Progeny Systems Corporation	Manassas	VA	20110	Networked Command, Control, & Communications

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NexGen Sonar Suite	EdgeOne LLC (operates as EdgeTech)	Boca Raton	FL	33487	Sensors & Processing
Expendable Conductivity, Temperature, and Depth Sensor	Progeny Systems Corporation	Manassas	VA	20110	Sensors & Processing
Rapid Aegis Weapon System Capability Upgrades Through Virtualization	Innovative Defense Technologies	Arlington	VA	22203	Cybersecurity
ADARO Unmanned Surface Vehicle	SeaLandAire Technologies, Inc.	Jackson	MI	49202	Autonomy
Chemical Surface Preparation	Applied Research Lab - Pennsylvania State University	College	PA	16804	Materials & Manufacturing Processes
Ground Based Beamforming for Resilient Satellite Communications	TMC Design Corporation	Las Cruces	NM	88012	Networked Command, Control, & Communications
Electromagnetic Propagation Measurement and Prediction Service	HS Owen LLC	Medford	NJ	08055	Networked Command, Control, & Communications
Automated Battle Management Aide	Harmonia Holdings Group, LLC	Blacksburg	VA	24060	Networked Command, Control, & Communications
Vapor with Pulsed Optical Readout Clock	AOSense, Inc.	Sunnyvale	CA	94085	Networked Command, Control, & Communications
Isinglass	Soar Technology, Inc.	Ann Arbor	MI	48105	Networked Command, Control, & Communications
Real-Time Health-Monitoring Sensor Suite	Evigia Systems, LLC	Ann Arbor	MI	48108	Ground & Sea Platforms

**OSD: 29 Projects**



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Comply to Connect	Alamo City Engineering	San Antonio	TX	78229	Cybersecurity
Enterprise Insider Threat User Monitoring	Veramine, Inc.	Bothell	WA	98012	Cybersecurity
Continuous Authentication on Computing Devices / Deep Learning for Continuous Mobile Behavior-Based Authentication	TwoSense, Inc.	New York	NY	10017	Cybersecurity
Scalable Analysis of Streaming Facial Identities	Rank One Computing Corp.	Denver	CO	80203	Artificial Intelligence / Machine Learning
Automated Tracking and Automation Tool	PromptWorks, LLC	Philadelphia	PA	19107	Autonomy
Fast Autonomous Sort, Search of Threats and Exploitation in Captured Media	Cape Henry Associates Inc.	Virginia Beach	VA	23452	Artificial Intelligence / Machine Learning
Unified Real-Time Operations Simulation Platform	Improbable Inc.	Tysons Corner	VA	22102	Artificial Intelligence / Machine Learning
Advanced Deep Learning Enabled Semantic Threat Analysis	Image Matters LLC	Leesburg	VA	20175	Artificial Intelligence / Machine Learning
Open Standards Interface for Persistent Maritime Intelligence, Surveillance, and Reconnaissance (ISR)	Atmospheric and Space Technology Research Associates, LLC	Boulder	CO	80301	Sensors & Processing
Efficient Multi-Sensor Fusion with Artificial Intelligence	Intellisense Systems, Inc.	Torrance	CA	90501	Artificial Intelligence / Machine Learning
Recovery of Strategic and Critical Materials from Existing Refining Processes	Rio Tinto Services, Inc..	Washington	DC	20001	Materials & Manufacturing Processes
Magnet to Magnet Recycling Solution for NdFeB Permanent Magnets	Urban Mining Corp.	Austin	TX	78744	Materials & Manufacturing Processes

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Universal AM Process Monitoring and Control	University of Dayton Research Institute	Dayton	OH	45469	Materials & Manufacturing Processes
Internally Cooled Seeker Window	Mainstream Engineering Corporation	Rockledge	FL	32955	Hypersonics
Design, Development, and Testing of a Next Generation Seeker Window	Kratos Defense and Rocket Support Services (Digital Fusion, Inc.)	Huntsville	AL	35805	Hypersonics
Wearable Devices for Indoor Mapping	TRX Systems, Inc.	Greenbelt	MD	20770	Advanced Electronics
Spectrum Waveform Cohabitability Assessment Model	BAE Systems Inc.	Wayne	NJ	29486	Networked Command, Control, & Communications
Sensitive Detection and Precision Geolocation / Tracking of Moving Pulsed and Continuous Wave RF Emitters	Arete Associates	Northridge	CA	91324	Sensors & Processing
Affordable Anti-Radiation Engagement Munition	Scientific Applications & Research Associates	Cypress	CA	90630	Weapons Technologies
Prototype Demonstration of Wide Field of View Optics in Long Wavelength and Dual-Band Infrared Sensor Systems for Degraded Visual Environment	optX Imaging Systems, LLC	Lorton	VA	22079	Sensors & Processing
Modular, Insulated, Next Generation, All-Climate, TSCIF-capable, Off-Grid, Rapidly-Buildable Structure (MINATORS)	Compotech, Inc.	Brewer	ME	04412	General Warfighting Requirement
Expeditionary Portable Power Unit	Go Electric	Anderson	IN	46013	Energy & Power Technology
Water Purification Tablet	TDA Research, Inc.	Wheat Ridge	CO	80033	General Warfighting Requirement
Unified Cause	Ingenia Services, Inc.	Wake Forest	PA	27587	Cybersecurity

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Links for Polymer-Cased Ammunition	PCP Tactical LLC	Vero Beach	FL	32963	Weapons Technologies
StratoRadar for Wide-Area Surveillance	World View Enterprises	Tucson	AZ	85756	Sensors & Processing
Service Oriented Real-Time ISR Provisioning	Forward Trace LLC	Richmond	VA	23221	Command, Control, Communications, Computers, & Intelligence
Spectrum Exploitation for Emissions Control	Physical Optics Corporation	Torrance	CA	90501	Sensors & Processing
Information Assurance / Cyber Protection for Mobility Air Force Aircraft	Management Sciences Inc.	Albuquerque	NM	87110	Cybersecurity

## Rapid Innovation Fund Program -- FY 2018 Funded Projects Total: 105 Project Awards

Project Title	Contractor	City	State	Zip	Technology Area
<b>AIR FORCE: 25 Projects</b>					
Product Support Business Case Analysis Tool Set	Edaptive Computing, Inc.	Dayton	OH	45433	Engineered Resilient Systems
Foreign Travel and Foreign Contact Tracking System	Edaptive Computing, Inc.	Dayton	OH	45433	General Warfighting Requirement
K+ontrol Renal Support System for Reduction of Hyperkalemia	CytoSorbents Medical, Inc.	Monmouth Junction	NJ	08852	Biomedical
Real-Time Nuclear Command, Control, and Communications (NC3) Network Health Monitoring	Rockwell Collins, Inc.	Cedar Rapids	IA	52498	Nuclear Modernization
NC3 Modeling and Simulation Tool	LinQuest Corporation	Los Angeles	CA	90056	Nuclear Modernization
Development of an ePoD	Arizona State University	Tempe	AZ	85281	Biomedical
Inflight Energy Transfer for Small Unmanned Aerial Systems	Tanner Research, Inc.	Monrovia	CA	91016	Energy & Power Technology
Using Julia to Build a Cloud Based, Open Source Machine Learning Platform for Multi-Mission Development Data	Julia Computing	Newton	MA	02459	Artificial Intelligence / Machine Learning
Loadmaster Exoskeleton for Aerial Port Delivery	Arizona State University	Tempe	AZ	85281	Human Systems
Macro Weather Sensor First-in Kit	Intellisense Systems, Inc.	Torrance	CA	90501	Sensors & Processing

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Robust Tactical Portable Doppler Radar	Agile RF Systems	Berthoud	CO	80513	Sensors & Processing
SABER-MaX Low Size, Weight, and Power (SWaP), Multi-Band/Channel Software Defined Radio (SDR)	MaXentric Technologies	Fort Lee	NJ	07024	Networked Command, Control, & Communications
MAINLINE for Tactical Pods	FIRST RF Corporation	Boulder	CO	80301	Networked Command, Control, & Communications
Maintenance Data Spatial Positioning System	Hill Engineering, LLC	Rancho Cordova	CA	95670	Air Platforms
Body Armor Battery	SKC Powertech, Inc.	Budd Lake	NJ	07828	Energy & Power Technology
Plug-and-play Multi-spectral Airborne Positioning System	Leidos, Inc.	Reston	VA	20190	Air Platforms
Cyber Secure Space Networking	Innoflight, Inc.	San Diego	CA	92121	Space
Large Area, Long-Pulse, Light Emitting Diode-Based, Solar Simulator for 3J-6J Solar Cells	Angstrom Designs	Santa Barbara	CA	93101	Space
Infrastructure Software for Multi-Spacecraft Mission Autonomy	Emergent Space Technologies, Inc.	Lauren	MD	20707	Space
Economical Payload Integration Cost	NovaWurks	Los Alamitos	CA	90720	Space
Ni-Zn Replacement Batteries for Intercontinental Ballistic Missile Ground Facility Battery	ZAF Energy Systems	Joplin	MO	59912	Energy & Power Technology
All-Electronic Arm/Disarm Switch	Tanner Research, Inc.	Monrovia	CA	91016	Weapons Technologies

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Carbon/Carbon Composite Leading Edges with Integrated Oxidation Protection Coating	Plasma Processes, LLC	Huntsville	AL	35811	Weapons Technologies
Robust Wide-area Image-based Navigation and Geo-location	Systems & Technology Research	Woburn	MA	01801	Weapons Technologies
Jet Engine Air Seal Knife-edge Restoration	Engineering and Software System Solutions	Clearfield	UT	92101	Air Platforms

**ARMY: 31 Projects**

On-Demand Adaptive Power for Unmanned Aerial Vehicles	Pennsylvania State University	University Park	PA	16802	Energy & Power Technology
Autonomous and Robotic Remote Refueling Point	Stratom, Inc.	Boulder	CO	80301	Autonomy
Remote Robotic Refueling for Extended Missions	RE2, Inc.	Pittsburgh	PA	15201	Air Platforms
Pose Acquisition Integrated Networked Targeting	Chosen Realities LLC	Orlando	FL	32826	Networked Command, Control, & Communications
Aluminum-based Hydrogen Production on the Battlefield	General Atomics	San Diego	CA	92121	Energy & Power Technology
Combat Vehicle Advanced Heat Exchangers	International Mezzo Technologies	Baton Rouge	LA	70814	Energy & Power Technology
High Performance Materials Architectures for Advanced Protection	Directed Vapor	Charlottesville	VA	22903	Materials & Manufacturing Processes
Collaborative Global Positioning System (GPS)-Denied Navigation for Combat Vehicles	SRI International	Menlo Park	CA	94025	Air / Ground & Sea Platforms

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Painting Optical Fiber Networks	TRAXyL	Warrenton	VA	20187	Materials & Manufacturing Processes
Forensic Trace Analysis of Multi-Component Environmental Biosignatures	Battelle	Columbus	OH	43201	Advanced Electronics
Improved Strippable Forensic Collection Media	TIAX LLC	Lexington	MA	02421	Materials & Manufacturing Processes
Scalable Test Range Adaptable Instrumentation Network	ANDRO Computational Solutions	Rome	NY	13440	Networked Command, Control, & Communications
CSES Next Generation Handheld Buried Threat Detector	L3 Security & Detection Systems	Tewksbury	MA	01876	Sensors & Processing
Advanced SDR Antenna Nulling	COMTECH	Germantown	MD	20874	Networked Command, Control, & Communications
Comtech MT-2025 Dual Mode	COMTECH	Germantown	MD	20874	Networked Command, Control, & Communications
Resilient Blue Force Tracking System	Viasat	Carlsbad	CA	92009	Networked Command, Control, & Communications
UH-60M Constantly Computing Weight Calculator	Honeywell International, Inc.	Phoenix	AZ	85027	Air Platforms
Army Mission Planning System Mobile Environment	Geoweb3d Inc.	Vestal	NY	13850	Networked Command, Control, & Communications
Integration of MIL SPEC 1553 Avionics Components into ARINC 429 Bussed Aircraft	Avalex Technologies	Gulf Breeze	FL	32563	Networked Command, Control, & Communications

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Joint Light Tactical Vehicle (JLTV) Expeditionary Tactical Shelter (JETS)	Kratos Modular Systems Division aka Gichner Systems Group, Inc.	Dallastown	PA	17313	Ground & Sea Systems
JLTV JETS	Kutta Technologies	Phoenix	AZ	85027	Ground & Sea Systems
JLTV JETS	HDT Expeditionary Systems, Inc.	Fredericksburg	VA	22408	Ground & Sea Systems
Add-On Wireless Intercom for Ground Combat and Combat Support Platforms	Innovative Wireless Technologies, Inc.	Lynchburg	VA	24504	Networked Command, Control, & Communications
Add-On Wireless Intercom for Ground Combat and Combat Support Platforms	Axnes, Inc.	Colorado Springs	CO	80903	Networked Command, Control, & Communications
Long Range Infrared Biometric Sensor	Cyan Systems	Santa Barbara	CA	93111	Artificial Intelligence / Machine Learning
Spectral Exploitation Algorithms for Camouflage, Concealment, and Deception Defeat	Spectral Sciences, Inc.	Burlington	MA	01803	Artificial Intelligence / Machine Learning
Next Generation Day Binocular (aka Advanced Stabilized Targeting and Ranging System)	Fraser Optics Inc.	Feasterville-Trevose	PA	19053	Advanced Electronics
Hybrid Adaptive Optics for Next Generation Enhanced Sight (aka ClearView Spotter Scope)	Kestrel Inc.	Albuquerque	NM	87109	Advanced Electronics
Scratch Resistant Protective Eyewear	The Johns Hopkins University Applied Physics Laboratory	Laurel	MD	20723	Materials & Manufacturing Processes
Thermally Responsive Textiles	MIDE Technology Corporation	Woburn	MA	01801	Materials & Manufacturing Processes
Inherently Functionalized Protective Fabrics	QED Labs Inc.	Waltham	MA	02451	Materials & Manufacturing Processes

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NAVY: 24 Projects					
Hornets Nest	Versatol	McDonough	GA	30252	Weapons Technologies
Cracked Armor Laminated Patch Repair	NEXTGen Aeronautics, Inc.	Torrance	VA	90503	Ground & Sea Systems
Assault Amphibious Vehicle Survivability Upgrade Survivability Kit	Navatek	Honolulu	HI	96813	Networked Command, Control, & Communications
Innovative Small Advanced Field Refrigeration System	Triton Systems	Chelmsford	MA	22134	Energy & Power
Surface Targeting Rapid Integrated Kill Chain Engagement Module	Integrity Applications Inc.	Chantilly	VA	20151	Networked Command, Control, & Communications
Advanced Helmet for Maintainer Head and Hearing Protection	Creare	Hanover	NH	03755	Human Systems
Vibration Isolation System for the MH-60S Gunner Seat	Innovital Systems	Calverton	MD	20705	Human Systems
Intelligent Agents for Load Plan Requirements	Proburst Test Systems	Red Bank	NJ	07701	Command, Control, Communications, Computers, & Intelligence
MH-60R Environmentally Insensitive Decluttering	Cornerturn	Corona	CA	92880	Networked Command, Control, & Communications
Integrated System for Avoidance of Ice-Producing Airborne Hazards	FIRST RF Corporation	Boulder	CO	80301	Artificial Intelligence / Machine Learning
Tri-band L, S, and C Ultra Wideband Phased Array for Telemetry	Creative Digital Systems Integration, Inc.	Simi Valley	CA	93065	Sensors & Processing
Automated Bistatic Active Sonar Processing	Metron	Reston	VA	20190	Sensors & Processing

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High Energy Density Non-Flammable Battery	Physical Sciences	Andover	MA	01810	Energy & Power
Transparent Armor Windows for U.S. Navy Ships	Karagozian and Case	Glendale	CA	91203	Materials & Manufacturing Processes
Precision Acoustic Ranging System	Progeny Systems Corporation	Manassas	VA	20110	Sensors & Processing
Real-Time Trainer and Simulator for Radar Operators	Physical Optics Corporation	Torrance	CA	90501	Human Systems
Loading for Naval Resupply Deployment	Robotic Research	Gaithersburg	MD	20878	Engineered Resilient Systems
Low Cost Quantum Cascade Lasers for IR Applications	Forward Photonics, LLC	Woburn	MA	01801	Materials & Manufacturing Processes
Next Generation Radio-Frequency Identification Technology for the Naval Supply Chain	Logistics Management Institute	Mclean	VA	22102	Cybersecurity
Mobile User Objective System (MUOS) Enhanced Capability	Viasat	Carlsbad	CA	92009	Networked Command, Control, & Communications
Assured Position, Navigation, and Timing Using Small Satellites in a GPS-Denied Environment	TMC Design Corporation	Las Cruces	NM	88012	Networked Command, Control, & Communications
MUOS Extension Gateway	W5 Technologies	Scottsdale	AZ	85257	Networked Command, Control, & Communications
Non-Linear Behavior Models for the Design of Thermal Protection System Materials and Components	ATA Engineering	San Diego	CA	92128	Materials & Manufacturing Processes
Global Impact Location System	Trident Research	Austin	TX	78758	Weapons Technologies

OSD: 25 Projects					
Automated Cybersecurity Software Testing Tools	GrammaTech, Inc.	Ithaca	NY	14850	Cybersecurity
Artificial Intelligence / Machine Learning to Enhance Decision	Data Robot	Boston	MA	02110	Cybersecurity
System for Background Evaluation and Review	TrussWorks, Inc.	San Francisco	CA	94104	General Warfighting Requirement
Non-Powered Cold Storage Carry-On	Triton Systems, Inc.	Chelmsford	MA	01824	Materials & Manufacturing Processes
Commercial Expansion of Novel Rare Earth Separation Technology	Rare Earth Salts	Beatrice	NE	68310	Materials & Manufacturing Processes
Extracting and Linking Data for Biological Materials Information Program	Inferlink	El Segundo	CA	90245	Artificial Intelligence / Machine Learning
Vanishing Material Parachute Initiated by Sun-Ray Exposure	MORSE Corp	Cambridge	MA	01760	Materials & Manufacturing Processes
Global Force Management Analysis Tool	Modus Operandi, Inc.	Melbourne	FL	32901	Networked Command, Control, & Communications
A Sprayable Coating System for Immediate Decontamination of Military Equipment	Clear Scientific	Cambridge	MA	02138	Materials & Manufacturing Processes
Aerodynamic Control System for Hypersonic Technology Testbed	Troy 7	Huntsville	AL	35806	Hypersonics
Carbon/Carbon	Allcomp	City of Industry	CA	91746	Hypersonics
High Temperature Semiconductor Diode Laser Pumps	Freedom Photonics	Goleta	CA	93117	Advanced Electronics

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Auto-Tracking Order of Battle	Commonwealth Computer Research, Inc.	Charlottesville	VA	22905	Artificial Intelligence / Machine Learning
Source Maritime Automated Processing System	Sierra Nevada	Sparks	NV	89434	Artificial Intelligence / Machine Learning
Reactive Electronic Attack Portable Radio - Innovative Electronic Support / Attack Suite Extends to Airborne Platforms	Kerberos	Temple	TX	76501	Electronic Warfare
Strained-Layer-Superlattice Digital Pixel Focal Plane Array for Wide Field of View IR Search Track Imaging	QmagiQ	Nashua	NH	03063	Sensors & Processing
Optically Interconnected High Dynamic Range IR Imaging System	CACI Technologies (Senseseeker Engineering and Freedom Photonics)	Chantilly	VA	20151	Advanced Electronics
Drone Rupture	Blind Tiger Communications, Inc.	Blairsville	GA	30512	Electronic Warfare
Tactical Mobile Infrastructure Management Suite	Veloxiti, Inc.	Alpharetta	GA	30022	Networked Command, Control, & Communications
Machine Learning to Supercharge Logistics	Cybernet Systems Corporation	Ann Arbor	MI	48108	Artificial Intelligence / Machine Learning
Low SWaP Optical Infrasonic Sensor for Wave Gliders	MagiQ Technologies	Somerville	MA	02143	Sensors & Processing
L-Band Interference Cancellation System	MagiQ Technologies	Somerville	MA	02143	Electronic Warfare
Autonomous Navigation in Non-GPS Environments	Vista Research	Arlington	VA	22202	Autonomy
Multi-Access Waveform Virtualization in Open High-Performance Computing Environment	Advanced Technology International/AASKI/Envistacom	Chantilly	VA	20151	Networked Command, Control, & Communications
Rapidly Deployable Advanced Extremely High Frequency Antenna	COMTECH	Germantown	MD	20874	Networked Command, Control, & Communications

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## Rapid Innovation Fund Program -- FY 2019 Funded Projects Total: 94 Project Awards

Project Title	Contractor	City	State	Zip	Technology Area
<b>AIR FORCE: 22 Projects</b>					
Improved Wear/Corrosion Resistant and Low Friction Coatings for Ferrous and Non-Ferrous Armament Substrates	IBC Materials and Technology	Lebanon	IN	46052	Materials & Manufacturing Processes
SERVAL on Attributable Unmanned Aerial System (UAS)	Systems Technology & Research	Woburn	MA	01801	Air Platforms
Artificial Intelligence Course of Action Generation and What If Evaluation Tools for Post Wargame Analysis	Perceptronic Solutions	Sherman Oaks	CA	91423	Artificial Intelligence / Machine Learning
Intelligent Battle Manager	Aegis Technologies Group	Huntsville	AL	35806	Artificial Intelligence / Machine Learning
Logistics Fueled Generator Family	Precision Combustion	North Haven	CT	06473	Energy & Power Technology
Ultimate Passive Diffusive Sampler	XploSafe	Stillwater	OK	74075	Biomedical
Air Launched Cruise Missile Desiccant Modification	AGM Container Controls	Tucson	AZ	85716	Weapons Technologies
Real-Time Situational Awareness with Small Aperature Radar Change Detection	Technology Service Corporation	Trumbull	CT	06611	Artificial Intelligence / Machine Learning
Additive Manufacturing (AM) of Tooling Via Large Format Material Extrusion	Titan Robotics	Colorado Springs	CO	80907	Materials & Manufacturing Processes
High-Efficiency Diesel for Multiple Power Applications	Mainstream Engineering Corp	Rockledge	FL	32955	Energy & Power Technology

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Reduced Cost and Fabrication Lead Time of Critical High-Temperature Hypersonic Facility Refractory through AM	Castheon	Thousand Oaks	CA	91320	Hypersonics
Low-Code Cloud and Mobile Device Application Platform	Appian	Tysons	VA	22102	Command, Control, Communications, Computers, & Intelligence
Space Based Airborne/Ground Moving Target Indication	Systems Technology & Research	Woburn	MA	01801	Space
Air Traffic Control and Landing System Active Electronically Scanned Array	FIRST RF Corporation	Boulder	CO	80301	Microelectronics
Space Deconfliction System Probabilistic Risk Assessment Tool	Raytheon	Colorado Springs	CO	80910	Directed Energy
Integration of and Display Data from Missile Defense and Non-Traditional Sources	Aegis Technologies Group	Huntsville	AL	35806	Networked Command, Control, & Communications
Advancing Die Extraction and Repackaging (DER™)/Remanufactured Parts Standardization, DMSMS Predictive Tools, Ensuring Mission Performance	Universal Engineering Consulting Services	Castlerock	CO	80108	Microelectronics
Semi-Automated Remanufacturing of Integrated Circuits (ICs)	DPA Components International	Simi Valley	CA	93065	Microelectronics
Work Unit Codes to Supply Rosetta Stone	Mercer Engineering Research Center	Warner Robbins	GA	31088	Autonomy
Space Asset Protection, Servicing, and Debris Disposal System	Busek Co. Inc.	Natick	MA	01760	Space
High-Explosive Anti-Tank Anti-Personnel Anti-Material Multipurpose Warhead for AGR-20 Advanced Precision Kill Weapon System II	General Dynamics Ordnance and Tactical Systems Inc.	Niceville	FL	32578	Weapons Technologies
Common Engine Sensor Package with Cybersecurity	Management Sciences	Albuquerque	NM	87110	Cybersecurity

ARMY: 25 Projects					
Three Dimensional (3D) Active Warning and Recognition Environment	Irvine Sensors Corporation	Costa Mesa	CA	92626	Artificial Intelligence / Machine Learning
Physics-Based High Fidelity Radio Frequency (RF) Predictive Tools in Electromagnetics (EM)	HyperComp, Inc.	Westlake Village	CA	91361	Hypersonics
Biotemplated Carbon Nanofibers for the Broad-Spectrum Removal of Chemical Threats	Massachusetts Institute of Technology	Cambridge	MA	02139	Materials & Manufacturing
Fuel Cell Mission Extension for Trackless Moving Target-Vehicle	Pratt and Miller Engineering & Fabrication	New Hudson	MI	48165	Autonomy
Expedient Protection Toolset for Critical Assets	Summerwind Consultants, Inc.	Wesson	MS	39191	Networked Command, Control, & Communications
Detecting Fake Images and Videos Using Artificial Intelligence and Multimedia Forensics	Drexel University	Philadelphia	PA	19104	Cybersecurity
Software Programmable Electronic Warfare and Cyber and EM Activities Threat Representative Environment	GaN Corporation	Huntsville	AL	35803	Cybersecurity
Foamed Celluloid Extended Range Combustible Artillery Propulsion Cases	Polymer Processing Institute	Newark	NJ	07102	Materials & Manufacturing
High Frequency Cognitive, Robust, Survivable and Secure Radio	EpiSys Science	Poway	CA	92064	Networked Command, Control, & Communications
Airborne Wideband Satellite Communications	Strata-G Solutions	Huntsville	AL	35808	Networked Command, Control, & Communications
Intelligent Radio with Agility via Machine Learning	ANDRO Computational Solutions	Rome	NY	13440	Artificial Intelligence / Machine Learning

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Crashworthy Troop Seat and Crew Chief Seat	Pratt and Miller Engineering & Fabrication	New Hudson	MI	48165	Air Platforms
Integrated Navigation, Situational Awareness, and Targeting System	Leidos	Arlington	VA	22203	Autonomy
Optimized Simultaneous Aided Target Detection and Imagery-based Navigation in Global Positioning System-Denied Environments	SRI International	Menlo Park	CA	94025	Autonomy
5th Display for Army Helicopter Platforms	L3 Aviaton Products, Inc.	Alpharetta	GA	30004	Air Platforms
High Capacity RF Network Channel Emulator Simulator Tool RFnest™	Intelligent Automation, Inc.	Rockville	MD	20855	Networked Command, Control, & Communications
Low Cost Embedded Vehicle Prognostics	Trident Systems Inc.	Fairfax	VA	22030	Autonomy
Situational Awareness Sensor System	Bevilacqua Research Corporation	Huntsville	AL	35805	Sensors & Processing
Affordable 360 Situational Awareness for Ground Combat and Combat Support Platforms	Mistral, Inc.	Bethesda	MD	20814	Sensors & Processing
Bridge Military Load Classification Calculator	Kihomac, Inc.	Reston	VA	20191	Autonomy
Universal Near Infrared (IR) Complementary Metal-Oxide Semiconductor Seeker Module	SiOnyx, LLC	Beverly	MA	01915	Advanced Electronics
Interface Blue Force Tracking with Common Missile Warning Systems	Raytheon	Indiana	IN	46219	Networked Command, Control, & Communications
Electronic Textile Power Delivery System	DCS Corporation	Alexandria	VA	22310	Energy & Power Technology

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High Energy Laser Hybrid Power System	Intuitive Research and Technology	Huntsville	AL	35805	Directed Energy
Structure Occupancy Detector	Helios Remote Sensing Systems	Rome	NY	13441	Sensors & Processing

NAVY: 21 Projects					
Forensic Case File Analysis Tool	Grier Forensics	Pikesville	MD	21117	Artificial Intelligence / Machine Learning
Ground Counter Fire Sensor Replacement	Hyperion Technology Group, Inc.	Tupelo	MS	38801	Sensors & Processing
Medium Range Intercept Fire Control Radar and RF Data Link	Northrop Grumman Corporation	Baltimore	MD	21240	Sensors & Processing
2.9 Meter Small Form Factor Steel Whip Antenna	Comrod, Inc.	Westlake	OH	44145	Networked Command, Control, & Communications
Speech Enabled MH-60R Sensor Operator Desktop Part Task Trainer	Soar Technology, Inc.	Ann Arbor	MI	48105	Artificial Intelligence / Machine Learning
MAVRIC Aircrew Endurance Seat for E-2C/D Aircraft	Safe, Inc.	Tempe	AZ	85282	Human Systems
Digital Vertical Line Array Sonobuoy 2.0	Ultra Electronics - Undersea Sensor Systems, Inc.	Columbia City	IN	46725	Sensors & Processing
Hot Spot Sensorless Control for EM Aircraft Launch System	Electro Standards Laboratories	Cranston	RI	02921	Ground & Sea Platforms
Multi-Parameter Aircraft Life Support Sensor	Makel Engineering, Inc.	Chico	CA	95973	Air Platforms

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Rapid Acquisition Sensor and Response	BAE Systems	Merrimack	NH	03054	Networked Command, Control, & Communications
Shipboard Atmospheric Extinction Light Detection and Ranging	Physical Sciences, Inc.	Andover	MA	01810	Directed Energy
Automated Test and ReTest Control System Configuration Manager for CVN 78 Class Control Systems	Innovative Defense Technologies	Arlington	VA	22203	Cybersecurity
Towed Airborne Lift of Naval Systems Development for Unmanned Surface Vehicle (USV) Applications	Maritime Applied Physics Corp	Baltimore	MD	21226	Autonomy
Portable Fluid Analyzer	AMETEK Spectro Scientific	Chelmsford	MA	01824	Artificial Intelligence / Machine Learning
Fully Resilient Cybersecurity Software Development and Information Technology Operations (DevOps)	Progeny Systems Corporation	Manassas	VA	20110	Cybersecurity
Medium-Voltage Direct Current Solid State Circuit Breaker	Diversified Technologies, Inc.	Bedford	MA	01730	Directed Energy
Cooperative Sonar Engagement for Theater	Marine Acoustics, Inc.	Arlington	VA	22203	Networked Command, Control, & Communications
Cybersecurity Data Framework Implemented for PEO C4I/PMW 130 on Naval Afloat Assets	Tychon LLC	Fredericksburg	VA	22401	Cybersecurity
Buoyant Cable Antenna for Underwater Mobile User Objective System (MUOS) Satellite Communications Capability	Johns Hopkins University Applied Physics Laboratory	Laurel	MD	20723	Networked Command, Control, & Communications
Assured Communications for Cross Domain Networking, Miniaturized Size, Weight, and Power MUOS Functional Terminal	Vulcan Wireless, Inc.	Carlsbad	CA	92008	Networked Command, Control, & Communications
Modular Flight Test Instrumentation for Persistent USVs	Trident Research	Austin	TX	78758	Sensors & Processing

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OSD: 26 Projects					
Field Deployable Alert Notification System	Space Sciences Corporation	Socorro	NM	87823	Networked Command, Control, & Communications
Distributed Machine Learning of Computer Network Defense Data	Enlighten IT Consulting	Linthicum Heights	MD	21090	Cybersecurity
In Protocol Analysis	Enlighten IT Consulting	Linthicum Heights	MD	21090	Cybersecurity
Development of a Highly Efficient Adsorber to Remove Anti-A/Anti-B Antibodies from Blood/Plasma for Transfusion	CytoSorbents, Inc.	Monmouth Junction	NJ	08852	Biomedical
Flight Medic Ultra-Wideband Microphone Toggle Device	Starix Technology	Irvine	CA	92618	Networked Command, Control, & Communications
Seamless Rotorcraft Crashworthy Fuel Cell	Response Technologies LLC	West Warwick	RI	02893	Energy & Power Technology
Mobile Cyber Security Threat Detection and Analysis Toolset-Black Rhino Next Generation	Sealing Technologies, Inc.	Columbia	MD	21046	Cybersecurity
Weaponizing for Low Collateral Damage Agent/Target Defeat	Protection Engineering Consultants	San Antonio	TX	78213	Counter Weapons of Mass Destruction
Self-Detoxifying Garment for Chemical Warfare Defense	Guild Associates, Inc.	Dublin	OH	43016	Materials & Manufacturing Processes
Production of Highly Active Garments that Utilize Metal-Organic Frameworks for Capture and Detoxification of Chemical Warfare	NuMat Technologies	Skokie	IL	60077	Materials & Manufacturing Processes
Low-Latency, High-Amplitude Thrust Vector Control	ASRC Federal Astronautics, LLC	Huntsville	AL	35824	Hypersonics

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Low Thermal Conductivity Valve for Highly Maneuverable Upper Stage Motors	Plasma Processes LLC	Huntsville	AL	35811	Hypersonics
Self-Contained Agile Tracking Element	SciTec	Princeton	NJ	08540	Microelectronics
Missile Ascent Phase and Left-of-Launch Integrated Estimation System	Knowledge Based Systems, Inc.	College Station	TX	77840	Artificial Intelligence / Machine Learning
Lithium Oxyhalide Battery Separator Material / Nanofiber Web Production Process Improvement	eSpin Technologies	Chattanooga	TN	37416	Materials & Manufacturing Processes
Automated Flight Procedure Assessment System	SitScape Inc.	Vienna	VA	22182	Artificial Intelligence / Machine Learning
Ship Detection Algorithm Development	SRI International	Menlo Park	CA	94025	Artificial Intelligence / Machine Learning
Improved Point Cloud Compression Capabilities	SRI International	Menlo Park	CA	94025	Artificial Intelligence / Machine Learning
Synthesis of Bis-2, 2-Dinitropropyl-Acetal/Formal (BDNPA/F) in an Advanced Continuous Flow Reactor	Leidos	Reston	VA	20190	Materials & Manufacturing Processes
3D Autonomous Measurement	Aris	Batavia	IL	60510	Autonomy
Multicolumn Electron-Beam Lithography Process Flow for IC Patterning	Multibeam Corporation	Santa Clara	CA	95054	Microelectronics
Dual-Band (Mid-/Long-wave) Digital-Pixel Upgrade To F/A-18 IR Search and Track For Enhanced Tactical Capability	Copius Imaging LLC	Lexington	MA	02421	Microelectronics
Vertical Takeoff and Landing of Fixed Wing Unmanned Aerial Vehicles	Indigo Industries, LLC	Scottsdale	AZ	85251	Autonomy

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Hyperspectral Chemical Airborne Reconnaissance Sensor	Spectrum Photonics	Honolulu	HI	96822	Sensors & Processing
Manpack Flat-Panel Wideband Ku-band Satellite Terminal	Wafer, LLC	Danvers	MA	01923	Networked Command, Control, & Communications
UAS Hosted Automated Maritime Target Detection	Trillium Engineering	Hood River	OR	97031	Autonomy