



Proposals Selected for Negotiation of Contracts

Expand All

- **A1 Aviation Safety (15)**

- **Aurora Flight Sciences Corporation**

- , VA 00000

- Thomas Vaneck (617) 225-4377

- 06-1-A1.01-9056 ARC

- [MILP-Based 4D Trajectory Planning for Tactical Trajectory Management](#) [1]

- **Barron Associates, Inc.**

- , VA 00000

- Connie Hoover (434) 973-1215

- 06-1-A1.07-9512 LaRC

- [Real-Time Adaptive Algorithms for Flight Control Diagnostics and Prognostics](#) [2]

- **Barron Associates, Inc.**

- , VA 00000

- Connie Hoover (434) 973-1215

- 06-1-A1.02-9516 LaRC

- [Damage Adaptation Using Integrated Structural, Propulsion, and Aerodynamic Control](#) [3]

- **Continuum Dynamics, Inc.**

- , NJ 00000

- Barbara Agans (609) 538-0444

- 06-1-A1.02-9089 LaRC

- [Model Based Aircraft Upset Detection and Recovery System](#) [4]

- **Emerald Sky Technologies**

- , MD 00000

Steven Fritz (443) 745-4109

06-1-A1.05-8854 LaRC

[OZ: An Innovative Primary Flight Display](#) [5]

Global Technology Connection Inc

, GA 00000

Ash Thakker (770) 803-3001

06-1-A1.07-8707 ARC

[Battery Diagnostics and Prognostics for Space Applications](#) [6]

Impact Technologies, LLC

, NY 00000

Carol Marquardt (585) 424-1990

06-1-A1.07-9303 LaRC

[Real-Time Fault Contingency Management for Integrated Vehicle Health Management](#) [7]

Integran Technologies USA, Inc.

, PA 00000

Robert Heard (412) 268-2705

06-1-A1.03-8436 GRC

[Grain Boundary Engineering for Assessing Durability and Aging Issues with Nickel-Based Superalloys](#) [8]

JENTEK Sensors, Inc.

, MA 00000

Joni Hatem (781) 642-9666

06-1-A1.03-8344 LaRC

[Magneto-Thermography and Hybrid Methods for Composite Life Management](#) [9]

Nastec, Inc.

, OH 00000

Richard Klein (216) 464-8388

06-1-A1.02-9217 GRC

[In-Service Aircraft Engine System Life Monitor Using Advanced Life-Estimating Technique](#) [10]

NextGen Aeronautics, Inc.

, CA 00000

Zoltan Feher (310) 626-8384

06-1-A1.03-8886 LaRC

[Cradle-to-Grave Monitoring of Composite Aircraft Structures](#) [11]

Radiation Monitoring Devices, Inc.

, MA 00000

Gerald Entine (617) 668-6801

06-1-A1.03-9319 LaRC

[System for Analyzing Microscopic Defects and Defect Propagation Due to Aging](#) [12]

RHAMM Technologies, LLC

, OH 00000

Jeffrey Hess (888) 465-5909

06-1-A1.02-9768 LaRC

[Dynamic Damage Modeling for IRAC Simulations](#) [13]

RL Associates, Inc.

, PA 00000

Mary Ludwig (610) 499-7530

06-1-A1.06-9659 LaRC

[Near Infrared LIDAR for Hazard Sensing and Characterization](#) [14]

Techno-Sciences, Inc.

, MD 00000

Amy Hizoune (240) 790-0609

06-1-A1.07-8798 GRC

[Aircraft Electrical Power System Diagnostics and Health Management](#) [15]

• **A2 Fundamental Aeronautics (38)**

Advanced Ceramics Research, Inc.

, AZ 00000

Ranji Vaidyanathan (520) 434-6392

06-1-A2.01-8096 LaRC

[Polymer Matrix Composite Materials for Lightning Strike Mitigation](#) [16]

Advanced Dynamics, Inc.

, UT 00000

Patrick Hu (859) 559-7362

06-1-A2.04-8242 AFRC

[Integrated Variable-Fidelity Tool Set For Modeling and Simulation of Aeroservo-thermoelasticity -Propulsion \(ASTE-P\) Effects For Aerospace Vehicles Ranging From Subsonic to Hypersonic Flight](#) [17]

Avant Analysis Technology

, NY 00000

Yu Mukherjee (607) 277-4648

06-1-A2.01-9674 LaRC

[Material Characterization for Hypersonic Vehicles by the Fast Multipole Boundary Element Method](#) [18]

Axis Engineering Technologies

, MA 00000

Eric Prechtel (617) 225-4414

06-1-A2.08-8427 AFRC

[Piezo-Hydraulic Hybrid Pump for Flight Control](#) [19]

CFD Research Corporation

, AL 00000

Silvia Harvey (256) 726-4858

06-1-A2.06-9714 LaRC

[Computational Tool for Aero-thermal Environment Around Transatmospheric Vehicles](#) [20]

Continuum Dynamics, Inc.

, NJ 00000

Barbara Agans (609) 538-0444

06-1-A2.10-8750 ARC

[Surface-Mount Rotor Motion Sensing System](#) [21]

Continuum Dynamics, Inc.

, NJ 00000

Barbara Agans (609) 538-0444

06-1-A2.10-8983 ARC

[Next Generation Modeling Technology for High Speed Rotorcraft](#) [22]

Cornerstone Research Group, Inc.

, OH 00000

Patrick Hood (937) 320-1877

06-1-A2.01-9593 GRC

[Space-Qualifiable Cyanate Ester Elastomer](#) [23]

D&P LLC

, AZ 00000

Lei Tang (480) 518-0981

06-1-A2.06-9822 LaRC

[Gas-Kinetic Navier-Stokes Solver for Hypersonic Flows in Thermal and Chemical Non-Equilibrium](#) [24]

Desktop Aeronautics, Inc.

, CA 00000

Sharon Stanaway (650) 323-3141

06-1-A2.05-8507 LaRC

[High-Fidelity Aerodynamic Design with Transition Prediction](#) [25]

Digital Fusion

, AL 00000

William Dietz (256) 327-8120

06-1-A2.01-9551 LaRC

[Multi-Physics Computational Modeling Tool for Materials Damage Assessment](#) [26]

FlexSys, Inc.

, MI 00000

Sridhar Kota (734) 678-0135

06-1-A2.05-8653 LaRC

[Ultra-Low-Power High-Frequency Micro-Vortex Generators for Transonic Flow Control](#) [27]

Flow Parametrics, LLC

, DE 00000

Andreja Brankovic (561) 625-8850

06-1-A2.02-9540 GRC

[Robust High Fidelity Large Eddy Simulation Tool for Gas Turbine Combustors](#) [28]

Hyper-Therm High-Temperature Composites

, CA 00000

Wayne Steffier (714) 375-4085

06-1-A2.01-9428 AFRC

[Ceramic Composite Mechanical Fastener System for High-Temperature Structural Assemblies](#) [29]

Hyper-Therm High-Temperature Composites

, CA 00000

Wayne Steffier (714) 375-4085

06-1-A2.01-9578 GRC

[Advanced SiC-Matrix Composites with Improved Oxidation Resistance and Life](#) [30]

Innovative Scientific Solutions, Inc.

, OH 00000

Larry Goss (937) 429-5954

06-1-A2.03-9145 LaRC

[Development of Energy Efficient, Multi-Channel, Pulsed Plasma Generator for High-Speed Flow Control by Localized Arc Filament Plasma Actuators](#) [31]

JMSI, Inc. dba Intelligent Light

, NJ 00000

Steve Legensky (201) 460-4700

06-1-A2.10-9691 LaRC

[A Post-Processing System for Physics Based Derived Rotorcraft Computational Aero-Acoustics Simulations](#) [32]

Los Gatos Research

, CA 00000

Anthony O'Keefe (650) 965-7772

06-1-A2.02-8522 LaRC

[A Laser-Based Diagnostic Suite for Hypersonic Test Facilities](#) [33]

M4 Engineering, Inc.

, CA 00000

Myles Baker (562) 981-7797

06-1-A2.09-8306 GRC

[Multidisciplinary Optimization Object Library](#) [34]

Materials Resources International

, PA 00000

Ronald Smith (215) 631-7111

06-1-A2.01-9885 GRC

[Vacuum Plasma Spray Formed High Transition Temperature Shape Memory Alloys](#) [35]

Michigan Engineering Services, LLC

, MI 00000

Christina Vlahopoulos (734) 358-0777

06-1-A2.03-9596 LaRC

[Structural-Acoustic Simulations in Early Airframe Design](#) [36]

MIGA Motor Company

, CA 00000

Mark Gummin (510) 486-8301

06-1-A2.07-9416 GRC

[Miniature High Force, Long Stroke Linear Shape Memory Alloy Actuators](#) [37]

NextGen Aeronautics, Inc.

, CA 00000

Zoltan Feher (310) 626-8384

06-1-A2.09-9172 AFRC

[Advanced Modeling Concepts for Conceptual Design](#) [38]

NextGen Aeronautics, Inc.

, CA 00000

Zoltan Feher (310) 626-8384

06-1-A2.04-8147 LaRC

[Adjustable Fidelity Computational Aeroelasticity Procedure \(AFCAP\)](#) [39]

Nielsen Engineering & Research, Inc.

, CA 00000

Marnix Dillenius (650) 968-9457

06-1-A2.09-8495 ARC

[Cumulative Metamodeling with Uncertainty Estimation: a New Approach to Optimization of Highly Integrated Flight Vehicles](#) [40]

Patz Materials & Technologies

, CA 00000

Nick Patz (707) 748-7577

06-1-A2.10-8181 GRC

[Optimized Cellular Core for Rotorcraft](#) [41]

Pentalim Corporation

, OH 00000

David Hiscock (419) 424-3632

06-1-A2.02-9136 GRC

[A Wireless Chemiluminesce Detector for In-Situ Monitoring for AFEC](#) [42]

Phoenix Integration

, VA 00000

Scott Ragon (540) 961-7215

06-1-A2.09-9065 LaRC

[Multi-Disciplinary Multi-Fidelity Design Environment](#) [43]

Powdermet, Inc.

, OH 00000

Andrew Sherman (216) 404-0053

06-1-A2.01-8325 GRC

[Low Cost P/M Aluminum Syntactic Foam for Blade Containment in Turbine Engines](#) [44]

Powdermet, Inc.

, OH 00000

Andrew Sherman (216) 404-0053

06-1-A2.10-8152 GRC

[Erosion Resistant Compressor Blade Repair Technologies](#) [45]

Prime Research LC

, VA 00000

Michael Miller (540) 961-2200

06-1-A2.02-8281 ARC

[Development of Manufacturing Methods for Low-Cost, High-Temperature Sensors Applicable to Hypersonic Research](#) [46]

Scientific Simulations, LLC

, WY 00000

Dimitri Mavriplis (307) 766-2868

06-1-A2.04-8944 LaRC

[Sensitivity Analysis and Error Control for Computational Aeroelasticity](#) [47]

Spectral Sciences, Inc.

, MA 00000

Fritz Bien (781) 273-4770

06-1-A2.06-9752 ARC

[High-Fidelity Kinetics and Radiation Transport for NLTE Hypersonic Flows](#) [48]

Sun Valley Technology

, OH 00000

Frank Sun (216) 464-1322

06-1-A2.02-8571 GRC

[Multi-Element Lean Direct Injection Combustor Module](#) [49]

Techno-Sciences, Inc.

, MD 00000

Amy Hizoune (240) 790-0609

06-1-A2.10-9284 ARC

[Vibration Reduction Methods and Techniques for Rotorcraft Utilizing On-Blade Active Control](#) [50]

Techno-Sciences, Inc.

, MD 00000

Amy Hizoune (240) 790-0609

06-1-A2.10-9283 GRC

[Rotorcraft On-Blade Pressure and Strain Measurements Using Wireless Optical Sensor System](#) [51]

Technova Corporation

, MI 00000

Farangis Jamzadeh (517) 485-9583

06-1-A2.01-9149 ARC

[Nano-Engineered Structural Joints](#) [52]

Zona Technology, Inc.

, AZ 00000

Jennifer Scherr (480) 945-9988

06-1-A2.08-8973 LaRC

[Unified Nonlinear Flight Dynamics and Aeroelastic Simulator Tool](#) [53]

• **A3 Airspace Systems (8)**

Intelligent Automation, Inc.

, MD 00000

Mark James (301) 294-5221

06-1-A3.02-8286 LaRC

[Decision Support Tool and Simulation Testbed for Airborne Spacing and Merging in Super Dense Operations](#) [54]

Intelligent Automation, Inc.

, MD 00000

Mark James (301) 294-5221

06-1-A3.01-8855 ARC

[ACES Model Composition and Development Toolkit to Support NGATS Concepts](#) [55]

Metron Aviation, Inc.

, VA 00000

David Gaul (703) 787-8700

06-1-A3.02-8982 ARC

[Analysis and Mitigation of Increased Traffic Impacts on the Environment \(AMITIE\)](#) [56]

Metron Aviation, Inc.

, VA 00000

David Gaul (703) 787-8700

06-1-A3.02-9623 ARC

[Airport Configuration Planner with Optimized Weather Forecasts](#) [57]

Metron Aviation, Inc.

, VA 00000

David Gaul (703) 787-8700

06-1-A3.01-9619 LaRC

[Market-Based Mechanisms for Efficient Allocation of NAS Resources](#) [58]

Metron Aviation, Inc.

, VA 00000

David Gaul (703) 787-8700

06-1-A3.01-9867 ARC

[Dynamic Airspace Configuration Tool \(DACT\)](#) [59]

Mosaic ATM, Inc.

, VA 00000

Chris Brinton (703) 737-7637

06-1-A3.01-8376 ARC

[Airspace Flow Program Modeling in the Future ATC Concept Evaluation Tool](#) [60]

Optimal Synthesis, Inc.

, CA 00000

Padmanabhan Menon (650) 213-8585

06-1-A3.01-8158 ARC

[Computational Appliance for Rapid Prediction of Aircraft Trajectories](#) [61]

- **A4 Aeronautics Test Technologies (4)**

Complere, Inc.

, CA 00000

Kevin Owen (831) 646-5370

06-1-A4.01-9662 LaRC

[Measurement and Assessment of Flow Quality in Wind Tunnels](#) [62]

Mobitrum Corporation

, MD 00000

Ray Wang (301) 585-4040

06-1-A4.01-9960 GRC

[Autonomous Facility Health-Enabled Test Instrumentation](#) [63]

Research Support Instruments, Inc.

, MD 00000

Christopher Rollins (301) 306-0010

06-1-A4.01-8326 ARC

[Retroreflector Array for Test Environments \(RATE\)](#) [64]

Structured Materials Industries, Inc.

, NJ 00000

Gary Tompa (732) 302-9274

06-1-A4.01-8240 LaRC

[Fiber-Optic Etalon Pressure Sensor System with High Thermal and Mechanical Stabilities](#) [65]

- **O1 Space Communications (19)**

Aeronix, Inc.

, FL 00000

Judi Coleman (321) 984-1671

06-1-O1.05-8295 GRC

[Reprogrammable Radiation Tolerant Secure Network Access Module](#) [66]

aPeak, Inc.

, MA 00000

Stefan Vasile (617) 964-1788

06-1-O1.08-9886 JPL

[High-Counting Rate Photon Detectors for Long-Range Space Optical Communications](#) [67]

Cornerstone Research Group, Inc.

, OH 00000

Patrick Hood (937) 320-1877

06-1-O1.04-9591 LaRC

[Self-Erecting Communications Infrastructure](#) [68]

Fibertek, Inc.

, VA 00000

Guy Beagler (703) 471-7671

06-1-O1.08-9244 JPL

[Space-Qualifiable 1064 nm Fiber Based Transmitter for Long Range Optical Communications](#) [69]

Harmonic Devices, Inc.

, CA 00000

Justin Black (510) 316-4166

06-1-O1.06-9177 JSC

[Low Power, Small Form Factor, High Performance EVA Radio Employing Micromachined Contour Mode Piezoelectric Resonators and Filters](#) [70]

Hittite Microwave Corporation

, MA 00000

Stephen Daly (978) 250-3343

06-1-O1.09-9380 JPL

[Integrated MMIC for Phase-Locked Oscillators and Frequency Synthesizers](#) [71]

Hittite Microwave Corporation

, MA 00000

Stephen Daly (978) 250-3343

06-1-O1.09-9379 JPL

[SSPA's Using Reduced Conduction Angle Techniques on Wide-Bandgap Devices for Ultra High Efficiency](#) [72]

L'Garde, Inc.

15181 Woodlawn Avenue

Tustin, CA 92780

Constantine Cassapakis (714) 259-0771

06-1-O1.04-9843 GRC

[Light-Weight Self-Correcting Inflatable/Rigidizable Space Antennas](#) [73]

MagiQ Technologies, Inc.

, NY 00000

Alexei Trifonov (617) 661-8300

06-1-O1.07-8709 GRC

[Compact Tunable High-Efficiency Entangled Photon Source](#) [74]

Mevicon, Inc.

, CA 00000

Eric Flint (408) 744-1335

06-1-O1.04-9426 GRC

[High Gain, Very Low Areal Density, Scalable RF Apertures Enabled by Membrane Aperture Shell Technology \(MAST\)](#) [75]

NAL Research Corporation

, VA 00000

Ngoc Hoang (703) 392-5676

06-1-O1.03-8223 GSFC

[Small Satellite Transceiver for Launch Vehicles](#) [76]

NxGen Electronics, Inc.

, CA 00000

Stephan Von Muehlen (858) 309-6610

06-1-O1.05-9630 GRC

[Stackable Radiation Hardened FRAM](#) [77]

Payload Systems, Inc.

, MA 00000

Scott Hart (617) 868-8086

06-1-O1.02-9562 GSFC

[Synchronized Position and Hold Reorient Experimental Satellites - International Space Station \(SPHERES-ISS\)](#) [78]

Princeton Satellite Systems

, NJ 00000

Michael Paluszek (609) 279-9606

06-1-O1.02-8582 GSFC

[Optical Navigation System](#) [79]

Space Micro, Inc.

, CA 00000

David Strobel (858) 332-0702

06-1-O1.09-9523 JPL

[Reconfigurable Miniature Transponder for Multimode L, S, X band Space Communication](#) [80]

Summation Research, Inc.

, FL 00000

Thomas Drago (321) 254-2580

06-1-O1.01-8171 GSFC

[Programmable High-Rate Multi-Mission Receiver for Space Communications](#) [81]

Toyon Research Corporation

, CA 00000

Marcella Lindbery (805) 968-6787

06-1-O1.10-9295 GRC

[Low-Power Radio and Image-Sensor Package](#) [82]

Toyon Research Corporation

, CA 00000

Marcella Lindbery (805) 968-6787

06-1-O1.05-9020 GRC

[Multi-Mission MicroSDR](#) [83]

Wang Electro-Opto Corporation

, GA 00000

Paul Butler (770) 955-9321

06-1-O1.10-9697 GRC

[Smart Multifunction Antenna for Lunar/Planetary Surface Network](#) [84]

• **O2 Space Transportation (7)**

Combustion Research and Flow Technology

, PA 00000

Paula Schachter (215) 766-1520

06-1-O2.02-9520 SSC

[Computational Modeling in Support of High Altitude Testing Facilities](#) [85]

Flight Landata, Inc.

, MA 00000

Brooks Patterson (978) 682-7767

06-1-O2.03-9072 KSC

[A WiMAX Networked UAV Telemetry System for Net-Centric Remote Sensing and Range Surveillance](#) [86]

Lake Shore Cryotronics, Inc.

, OH 00000

Philip Swinehart (614) 891-2243

06-1-O2.02-9146 SSC

[Fiber Optic Mass Flow Gauge for Liquid Cryogenic Fuel Facilities Monitoring and Control](#) [87]

Maracel Systems & Software Technologies, LLC

, FL 00000

Bonnie Ditto (850) 423-0512

06-1-O2.01-9758 KSC

[Range-Based Auto-Focus](#) [88]

Mobitrum Corporation

, MD 00000

Ray Wang (301) 585-4040

06-1-O2.02-9970 SSC

[Health-Enabled Smart Sensor Fusion Technology](#) [89]

New Span Opto-Technology, Inc.

, FL 00000

Michael Wang (305) 321-5288

06-1-O2.01-8509 KSC

[Hyperspectral Foveated Imaging Sensor for Objects Identification and Tracking](#) [90]

Soneticom, Inc.

, FL 00000

James Kingsley (321) 733-0400

06-1-O2.03-8309 KSC

[Remote EMI Field Strength Mapping](#) [91]

• **S1 Robotic Exploration of the Moon and Mars (3)**

Advanced Scientific Concepts, Inc.

, CA 00000

Roger Stettner (805) 966-3331

06-1-S1.03-8451 JPL

[Development of a 3D Flash LADAR Video Camera for Entry, Decent and Landing](#) [92]

Alliance Spacesystems, LLC

, CA 00000

Scott Stanley (626) 296-1373

06-1-S1.01-8788 JPL

[Light Weight Low Force Rotary Percussive Coring Tool for Planetary Applications](#) [93]

Pioneer Astronautics

, CO 00000

Robert Zubrin (303) 980-0890

06-1-S1.01-9456 JPL

[Advanced Gashopper Mobility Technology](#) [94]

• **S2 Robotic Exploration Throughout the Solar System (16)**

Advanced Cooling Technologies, Inc.

, PA 00000

Jon Zuo (717) 295-6058

06-1-S2.03-8433 GRC

[Variable Conductance Heat Pipes for Radioisotope Stirling Systems](#) [95]

Apparati, Inc.

, CA 00000

Charles Bryson (408) 623-1556

06-1-S2.01-8358 JPL

[Elemental and Chemical State Analysis, XPS, for In-Situ Materials Analysis on Mars](#) [96]

EpiWorks, Inc.

, IL 00000

David Ahmari (217) 373-1590

06-1-S2.03-8497 GRC

[High-Efficiency, High-Temperature, Ultra-Lightweight GaP-Based Solar Cells](#) [97]

FMW Composite Systems, Inc.

, WV 00000

William Fehrs (304) 842-1970

06-1-S2.02-8785 JPL

[Titanium Matrix Composite Pressure Vessel](#) [98]

Honeybee Robotics Ltd.

, NY 00000

Stephan Von Muehlen (646) 459-7856

06-1-S2.02-8528 JPL

[Brushless DC Motor and Resolver for Venusian Environment](#) [99]

Intelligent Optical Systems, Inc.

, CA 00000

Lothar Kempen (310) 530-7130

06-1-S2.01-8493 JPL

[Miniaturized Lab-on-a-Chip Polarimeter](#) [100]

Microwave Power Technology

, CA 00000

Robert Espinosa (650) 567-0081

06-1-S2.01-8992 ARC

[Miniature X-ray Source for Planetary Exploration Instruments](#) [101]

Nanosonic, Inc.

, VA 00000

Lisa Lawson (540) 953-1785

06-1-S2.03-9317 GRC

[Ultralightweight PV Array Materials for Deep Space Mission Environments](#) [102]

NEI Corporation

, NJ 00000

Ganesh Skandan (732) 868-3141

06-1-S2.03-9080 JSC

[A New Class of High Z Nanocrystalline and Textured Oxide-Based Thermoelectric Material](#) [103]

Novawave Technologies

, CA 00000

James Scherer (650) 610-0956

06-1-S2.01-8644 ARC

[Compact, Dual Channel, Mid-IR Laser Spectrometer](#) [104]

Q-Peak, Inc.

, MA 00000

Peter Moulton (781) 275-9535

06-1-S2.01-9265 JPL

[Highly Efficient Compact Laser for Planetary Exploration](#) [105]

Rugate Technologies, Inc.

, CT 00000

Jeanne Lazo-Wasem (203) 267-3154

06-1-S2.03-9974 GRC

[Efficient Thermally Stable Spectral Control Filters for Thermophotovoltaics](#) [106]

Scribner Associates Incorporated

, NC 00000

Kevin Cooper (910) 695-8884

06-1-S2.01-9887 JPL

[Sensor Array Analyzer for Planetary Exploration](#) [107]

Thorleaf Research, Inc.

, CA 00000

Paul Holland (805) 692-4978

06-1-S2.01-9187 JPL

[Miniaturized MEMS-Based Gas Chromatograph for High Inertial Loads Associated with Planetary Missions](#) [108]

UTRON, Inc.

, VA 00000

Marian Ludlow (703) 369-5552

06-1-S2.03-8428 JPL

[Nanocomposite Thermoelectric Materials by High Pressure Powder Consolidation Manufacturing](#) [109]

Winzen Engineering, Inc.

, TX 00000

James Rand (210) 415-5041

06-1-S2.05-9341 JPL

[Titan Balloon Convection Model](#) [110]

- **S3 Advanced Telescope Systems (11)**

- **AGILTRON Corporation**

- , MA 00000

- Sharon Tan (781) 935-1200

- 06-1-S3.04-8981 MSFC

- [Nano-Enabled Low-Cost High-Performance UV Anti-Reflection Coatings](#) [111]

- **Composite Technology Development, Inc.**

- , CO 00000

- Lori Pike (303) 664-0394

- 06-1-S3.03-8937 JPL

- [Precision Hinge Actuator for Advanced Telescope Systems](#) [112]

- **Kent Optronics, Inc.**

- , NY 00000

- Le Li (845) 897-0138

- 06-1-S3.04-9430 JPL

- [Bandwidth Controllable Tunable Filter for Hyper-/Multi-Spectral Imager](#) [113]

- **Mevicon, Inc.**

- , CA 00000

- Eric Flint (408) 744-1335

- 06-1-S3.04-9254 MSFC

- [Extremely Lightweight Segmented Membrane Optical Shell Fabrication Technology for Future IR to Optical Telescope](#) [114]

- **Mide Technology Corporation**

- , MA 00000

- Petra Botha (781) 306-0609

- 06-1-S3.01-8780 JPL

- [Control Valve for Miniature Xenon Ion Thruster](#) [115]

Physical Optics Corporation

, CA 00000

Gordon Drew (310) 320-3088

06-1-S3.04-9665 MSFC

[Adaptive Lobster-Eye Hard X-Ray Telescope](#) [116]

Reflective X-ray Optics, LLC

, NY 00000

David Windt (212) 678-4932

06-1-S3.04-9129 MSFC

[Gadolinium EUV Multilayers for Solar Imaging Near 60 nm](#) [117]

Rugate Technologies, Inc.

, CT 00000

Jeanne Lazo-Wasem (203) 267-3154

06-1-S3.02-9450 JPL

[Apodized Occulting and Pupil Masks for Imaging Coronagraphs](#) [118]

Scientific Systems Company, Inc.

, MA 00000

Raman Mehra (781) 933-5355

06-1-S3.01-8544 JPL

[Distributed Formation State Estimation Algorithms Under Resource and Multi-Tasking Constraints](#) [119]

Seabrook Engineering

, MD 00000

David Mozurkewich (301) 459-3375

06-1-S3.04-9363 GSFC

[Beam Combination for Sparse Aperture Telescopes](#) [120]

TRS Ceramics, Inc.

, PA 00000

Wesley Hackenberger (814) 238-7485

06-1-S3.03-8317 JPL

[Cryogenic Piezo Actuators for Lightweight, Large Aperture, Deployable Membrane Mirrors](#) [121]

- **S4 Exploration of the Universe Beyond our Solar System (14)**

- Advanced Science and Novel Technology**

- , CA 00000

- Vladimir Katzman (310) 377-6029

- 06-1-S4.01-8847 JPL

- [Extremely High Bandwidth Rad Hard Data Acquisition System](#) [122]

- Black Forest Engineering, LLC**

- , CO 00000

- Tyler Erickson (719) 593-9501

- 06-1-S4.01-8684 JPL

- [Cooled Bolometer IR Monolithic FPA](#) [123]

- Creare, Inc.**

- , NH 00000

- James Barry (603) 640-2487

- 06-1-S4.03-9573 GSFC

- [Lightweight Magnetic Cooler with a Reversible Circulator](#) [124]

- DR Technologies, Inc.**

- , CA 00000

- Steven Sherman (858) 677-1226

- 06-1-S4.01-8596 JPL

- [Lightweight Thermally Stable Multi-Meter Aperture Submillimeter Reflectors](#) [125]

- EPIR Technologies, Inc.**

- , IL 00000

- Sivalingam Sivananthan (630) 771-0201

- 06-1-S4.02-9848 GSFC

- [Quantum Calorimeters Based on HgCdTe Alloys](#) [126]

Epitaxial Technologies, LLC

, MD 00000

Olaleye Aina (410) 455-5594

06-1-S4.02-9126 GSFC

[Monolithic Time Delay Integrated APD Arrays](#) [127]

Hittite Microwave Corporation

, MA 00000

Stephen Daly (978) 250-3343

06-1-S4.01-9547 JPL

[High-Speed, Low-Power Digitizer \(9725\)](#) [128]

Intevac, Inc.

, CA 00000

Audrey Marshall (408) 654-9869

06-1-S4.02-9622 GSFC

[A Near-Infrared Photon Counting Camera for High Sensitivity Astronomical Observation](#) [129]

MetroLaser, Inc.

, CA 00000

Christina Arnold (949) 553-0688

06-1-S4.04-9893 GSFC

[An Instrument for Inspecting Aspheric Optical Surfaces and Components](#) [130]

Pioneer Astronautics

, CO 00000

Robert Zubrin (303) 980-0890

06-1-S4.06-9130 GSFC

[Stratospheric Deployment Parafoil](#) [131]

QmagiQ

, NH 00000

Mani Sundaram (603) 821-3092

06-1-S4.02-8429 GSFC

[Handheld Longwave Infrared Camera Based on Highly-Sensitive Quantum Well Infrared Photodetectors](#) [132]

Starodub, Inc.

, MD 00000

Nicolas Gagarin (301) 929-0964

06-1-S4.05-9982 GSFC

[Software for Application of HHT Technologies to Time Series Analysis](#) [133]

Techne Instruments, Inc.

, CA 00000

Richard Raffanti (510) 531-5522

06-1-S4.01-9926 JPL

[Low Power FPGA Based Spectrometer](#) [134]

Xinetics, Inc.

, MA 00000

Shoko Yoshikawa (978) 772-0352

06-1-S4.04-8127 JPL

[Programmable Relaxor Open-Loop Mirrors Using Imaging Spatial Encoder \(PROMISE\)](#) [135]

• **S5 Instrument Technologies for Solar Science (2)**

Princeton Power Systems, Inc.

, NJ 00000

Erik Limpaecher (609) 258-9668

06-1-S5.01-8814 GSFC

[Unique Power Dense, Configurable, Robust, High-Voltage Power Supplies](#) [136]

Southwest Sciences, Inc.

, NM 00000

Alan Stanton (505) 984-1322

06-1-S5.02-9245 GSFC

[Low Power, Self Calibrated Vector Magnetometer](#) [137]

• **S6 Earth Science Instrument and Sensor Technology (18)**

Advanced Science and Novel Technology

, CA 00000

Vladimir Katzman (310) 377-6029

06-1-S6.04-9957 GSFC

[Fast Low Power ADC with Integrated Digital Data Processor](#) [138]

ADVR, Inc.

, MT 00000

Betsy Heckel (406) 522-0388

06-1-S6.02-9345 LaRC

[Waveguide Phase Modulator for Integrated Planar Lightwave Circuits in KTP](#) [139]

ADVR, Inc.

, MT 00000

Betsy Heckel (406) 522-0388

06-1-S6.02-9340 GSFC

[Highly Efficient, Compact, Wavelength Converters for Pulsed and CW Laser Sources Used in Lidar-Based Remote Sensing and Ranging Systems](#) [140]

Anasphere, Inc.

, MT 00000

John Bognar (406) 994-9354

06-1-S6.03-8804 GSFC

[Miniature Carbon Dioxide Sensor for Small Unmanned Aircraft Systems](#) [141]

Atmospheric Observing Systems, Inc.

, CO 00000

James Smith (303) 443-3389

06-1-S6.03-9686 GSFC

[Innovative CO2 Analyzer Technology for the Eddy Covariance Flux Monitor](#) [142]

Flight Landata, Inc.

, MA 00000

Brooks Patterson (978) 682-7767

06-1-S6.01-9374 GSFC

[A Gimbal-Stabilized Compact Hyperspectral Imaging System](#) [143]

Hittite Microwave Corporation

, MA 00000

Stephen Daly (978) 250-3343

06-1-S6.04-9389 GSFC

[MMIC Cavity Oscillator at 50 and 94 GHz](#) [144]

Light Processing & Technologies, Inc. d/b/a OptiGrate

, FL 00000

Robert Giffin (407) 381-4115

06-1-S6.02-9049 LaRC

[High Power Compact Single-Frequency Volume Bragg Er-Doped Fiber Laser](#) [145]

Luminit, LLC

, CA 00000

Engin Arik (310) 320-1066

06-1-S6.02-9294 GSFC

[High-Speed Fiber Optic Micromultiplexer for Space and Airborne Lidar](#) [146]

MicroLink Devices

, IL 00000

Noren Pan (847) 588-3001

06-1-S6.05-8469 JPL

[InGaP DHBT for High Efficiency L-band T/R Module](#) [147]

Nanosonic, Inc.

, VA 00000

Lisa Lawson (540) 953-1785

06-1-S6.05-8829 JPL

[Nanocomposite Textiles as Lightweight, Low-Volume Deployable Antenna Systems](#) [148]

Polaronyx, Inc.

, CA 00000

Jian Liu (408) 245-9588

06-1-S6.02-9989 LaRC

[A High Energy and High Efficiency Spectral Shaping Single Frequency Fiber Laser](#) [149]

Sequoia Scientific, Inc.

, WA 00000

Yogesh Agrawal (425) 641-0944

06-1-S6.03-9435 GSFC

[Compact All Solid State Oceanic Inherent Optical Property Sensor](#) [150]

Structured Materials Industries, Inc.

, NJ 00000

Gary Tompa (732) 302-9274

06-1-S6.02-8244 GSFC

[Radiation-Hardened Silicon Integrated Low-Loss Nano-Photonic Switches for Array LIDARs](#) [151]

SVT Associates

, MN 00000

Leslie Price (952) 934-2100

06-1-S6.01-8210 LaRC

[High Performance Dual Band Photodetector Arrays for MWIR/LWIR Imaging](#) [152]

TLC Precision Wafer Technology, Inc.

, MN 00000

Timothy Childs (612) 341-2795

06-1-S6.05-8599 JPL

[X-Band to W-Band Doppler Radar Using Reconfigurable RF T/R MMIC Series](#) [153]

TRS Ceramics, Inc.

, PA 00000

Wesley Hackenberger (814) 238-7485

06-1-S6.01-9035 LaRC

[Cryogenic Stepping Piezomotor for Large Torque, Precise Rotary Motion Control in Passive Optics](#) [154]

Voxel, Inc.

, OR 00000

Debra Ozuna (971) 223-5646

06-1-S6.02-8666 GSFC

[Single Photon Sensitive HgCdTe Avalanche Photodiode Detector \(APD\)](#) [155]

• **S7 Science Spacecraft Systems Technology (16)**

Advanced Cooling Technologies, Inc.

, PA 00000

Jon Zuo (717) 295-6058

06-1-S7.06-8837 GSFC

[Pressure Controlled Heat Pipe for Precise Temperature Control](#) [156]

Advanced Science and Novel Technology

, CA 00000

Vladimir Katzman (310) 377-6029

06-1-S7.02-9995 GSFC

[Radiation Hard Space Wire Gigabit Ethernet Compatible Transponder](#) [157]

Alameda Applied Sciences Corporation

, CA 00000

Mahadevan Krishnan (510) 483-4156

06-1-S7.04-9451 MSFC

[FCAPD Protective Coating for Space Tethers](#) [158]

Andrews Space, Inc.

, WA 00000

Chris Hoeft (206) 438-0602

06-1-S7.04-8252 MSFC

[Rigidized Deployable Lifting Brake for Atmospheric Entry](#) [159]

APECOR

, FL 00000

Khalid Rustom (407) 275-1174

06-1-S7.05-9333 GRC

[Integrated Three-Port Converters for Compact and Efficient Power Management](#) [160]

Cornerstone Research Group, Inc.

, OH 00000

Patrick Hood (937) 320-1877

06-1-S7.04-9588 MSFC

[Low Mass Aeroshell Deployment Mechanism](#) [161]

Cullimore & Ring Technologies, Inc.

, CO 00000

Brent Cullimore (303) 971-0292

06-1-S7.06-9060 JPL

[Thermal Data Exchange Using International Standards](#) [162]

EnTempo Corporation

, ID 00000

Gregory Donohoe (208) 883-3898

06-1-S7.02-9163 GSFC

[Compiler for Fast, Accurate Mathematical Computing on Integer Processors](#) [163]

Luminit, LLC

, CA 00000

Engin Arik (310) 320-1066

06-1-S7.04-9510 MSFC

[UV-Curable Hybrid Nanocomposite Coating to Protect Tether Polymer Materials](#) [164]

Lynntech, Inc.

, TX 00000

Cynthia Barnett (979) 693-0017

06-1-S7.06-9134 MSFC

[Electrochemical-Driven Fluid Pump for Spacecraft Thermal Control](#) [165]

Mainstream Engineering Corporation

, FL 00000

Michael Rizzo (321) 631-3550

06-1-S7.06-8282 GSFC

[Demonstration of a Plug and Play Approach to Satellite Thermal Control System Development](#) [166]

Nightsky Systems, Inc.

, NC 00000

Carl Blaurock (919) 261-0936

06-1-S7.01-8584 GSFC

[Reaction Wheel Disturbance Model Extraction Software](#) [167]

Photonic Associates, LLC

, NM 00000

Claude Phipps (505) 466-3877

06-1-S7.03-9378 GRC

[Feasibility of a 5mN Laser-Driven Mini-Thruster](#) [168]

Plasma Processes, Inc.

, AL 00000

Timothy McKechnie (256) 851-7653

06-1-S7.04-8947 JSC

[High Performance Bipropellant Space Engines](#) [169]

Radiant Acoustics, Inc.

, MA 00000

Steve Derezinski (617) 642-8344

06-1-S7.01-8394 GSFC

[Nano-g Micromachined Inertial Sensors with Low Payload Impact](#) [170]

TPL, Inc.

, NM 00000

Hap Stoller (505) 342-4412

06-1-S7.05-8773 GSFC

[Nano-Composite Cathodes for High Performance Lithium Ion Microbatteries](#) [171]

- **S8 Advanced Modeling, Simulation, and Analysis for Science (11)**

- **AcceLogic, LLC**

- , FL 00000

- Juan Gonzalez (954) 249-3152

- 06-1-S8.02-8466 ARC

- [Novel Supercomputing Approaches for High Performance Linear Algebra Using FPGAs](#) [172]

- **Applied Scientific Research**

- , CA 00000

- Adrin Gharakhani (949) 752-7545

- 06-1-S8.02-9614 ARC

- [A Hardware-Accelerated Fast Adaptive Vortex-Based Flow Simulation Software](#) [173]

- **EM Photonics**

- , DE 00000

- Eric Kelmelis (302) 456-9003

- 06-1-S8.02-9449 ARC

- [Accelerated Numerical Processing API Based on GPU Technology](#) [174]

- **Fantalgo, LLC**

- , MD 00000

- Ramani Duraiswami (301) 332-2507

- 06-1-S8.02-9447 ARC

- [Productive Large Scale Personal Computing: Fast Multipole Methods on GPU/CPU Systems](#) [175]

- **Interactive Supercomputing, Inc.**

- , MA 00000

- James Scully (781) 419-5070

- 06-1-S8.02-8845 ARC

- [Automated Parallel Computing Tools for Multicore Machines and Clusters](#) [176]

Payload Systems, Inc.

, MA 00000

Scott Hart (617) 868-8086

06-1-S8.04-9568 SSC

[Rule-Based Integration of Science Data for Analysis and Display \(RISDAD\)](#) [177]

SciberQuest, Inc.

, CA 00000

Homa Karimabadi (858) 793-7063

06-1-S8.05-9922 GSFC

[Secure Peer-to-Peer Networks for Scientific Information Sharing](#) [178]

SeaFire Micros, Inc.

, MA 00000

James Awrach (978) 317-1831

06-1-S8.05-8900 GSFC

[10-100 Gbps Offload NIC for WAN, NLR, Grid Computing](#) [179]

Tech-X Corporation

, CO 00000

Laurence Nelson (720) 974-1856

06-1-S8.02-9232 ARC

[Grid-Enabled Interactive Data Language for Astronomical Data](#) [180]

Terrametrics, Inc.

, CO 00000

Gregory Baxes (303) 979-5255

06-1-S8.04-9577 SSC

[Dynamic Science Data Services for Display, Analysis and Interaction in Widely-Accessible, Web-Based Geospatial Platforms](#) [181]

Vcrsoft, LLC

, IL 00000

VC Ramesh (817) 652-3190

06-1-S8.04-9981 SSC

[Google Maps Mashups of NASA Data](#) [182]

- **X1 Systems Analysis and Integration (3)**

- **Cybernet Systems Corporation**

- , MI 00000

- Daniel Jarrell (734) 668-2567

- 06-1-X1.01-8518 JPL

- [Application Coherency Manager](#) [183]

- **Payload Systems, Inc.**

- , MA 00000

- Scott Hart (617) 868-8086

- 06-1-X1.02-9567 MSFC

- [System Engineering Software Assessment Model for Exploration \(SESAME\)](#) [184]

- **Spaceworks Engineering, Inc. (SEI)**

- , GA 00000

- John Bradford (770) 379-8007

- 06-1-X1.02-8978 MSFC

- [I-RaCM: A Fully Integrated Risk and Lifecycle Cost Model](#) [185]

- **X2 Avionics and Software (9)**

- **Adventium Enterprises, LLC**

- , MN 00000

- Kyle Nelson (612) 280-9843

- 06-1-X2.02-8873 ARC

- [System-Level Autonomy Trust Enabler \(SLATE\)](#) [186]

- **CFD Research Corporation**

- , AL 00000

Silvia Harvey (256) 726-4858

06-1-X2.04-9709 MSFC

[Improved Models and Tools for Prediction of Radiation Effects on Space Electronics in Wide Temperature Range](#) [187]

Contek Research, Inc.

, CA 00000

Fola Soares (310) 414-6720

06-1-X2.03-9178 ARC

[Analytical Methods for Verification and Validation of Adaptive Systems in Safety-Critical Aerospace Applications](#) [188]

CoolCAD Electronics

, MD 00000

Neil Goldsman (301) 270-9211

06-1-X2.04-9336 GSFC

[Electronic Modeling and Design for Extreme Temperatures](#) [189]

Grammatech Inc

, NY 00000

Ray Teitelbaum (607) 273-7340

06-1-X2.03-8550 JPL

[Static Detection of Bugs in Embedded Software Using Lightweight Verification](#) [190]

NVE Corporation

, MN 00000

Richard George (952) 996-1602

06-1-X2.04-9002 MSFC

[Magnetic Logic Circuits for Extreme Environments](#) [191]

Qualtech Systems, Inc.

, CT 00000

Chakrapani Vallurupalli (860) 257-8014

06-1-X2.01-8204 ARC

[Automated Fault Diagnostics, Prognostics, and Recovery in Spacecraft Power Systems](#) [192]

Ridgetop Group, Inc.

, AZ 00000

Douglas Goodman (520) 742-3300

06-1-X2.01-9421 ARC

[Integrated Health Management for Space Flight Digital Systems](#) [193]

Traclabs, Inc.

, TX 00000

Jonathan Fast (210) 822-2310

06-1-X2.02-9743 ARC

[A Data Abstraction Architecture for Spacecraft Autonomy](#) [194]

• **X3 Environmental Control and Life Support (ECLS) (7)**

Agave BioSystems, Inc.

, TX 00000

Noe Salazar (512) 671-1369

06-1-X3.01-8268 JSC

[CNT-Based Smart Electrostatic Filters for Capturing Nanoparticulate Lunar Regolith](#) [195]

Connecticut Analytical Corporation

, CT 00000

Joseph Bango (203) 393-9666

06-1-X3.01-9427 GRC

[Electrospray Collection of Airborne Contaminants](#) [196]

Environmental and Life Support Tech.

, CO 00000

Clifford Jolly (303) 840-4221

06-1-X3.03-9131 JSC

[Simple, Micro-Miniature Total Organic Carbon Analyzer](#) [197]

Orbital Technologies Corporation

, WI 00000

Thomas Crabb (608) 827-5000

06-1-X3.02-9557 JSC

[Enhanced Brine Dewatering System](#) [198]

Orbital Technologies Corporation

, WI 00000

Thomas Crabb (608) 827-5000

06-1-X3.01-9555 MSFC

[Plasma Air Decontamination System \(PADS\)](#) [199]

Santa Fe Science and Technology, Inc.

, NM 00000

Ann Fick (505) 239-1789

06-1-X3.02-8898 JSC

[High Recovery, Low Fouling Reverse Osmosis Membrane Elements for Space Wastewater Reclamation](#) [200]

Synkera Technologies, Inc.

, CO 00000

Stephen Williams (720) 494-8401

06-1-X3.01-8461 ARC

[Nanostructured Catalytic Reactors for Air Purification](#) [201]

• **X4 Lunar In Situ Resource Utilization (ISRU) (7)**

Diamond Materials, Inc.

, NJ 00000

Gary Tompa (732) 885-0805

06-1-X4.01-8247 GRC

[Non-Lubricated Diamond-Coated Bearings Reinforced by Carbon Fibers to Work in Lunar Dust](#) [202]

DR Technologies, Inc.

, CA 00000

Steven Sherman (858) 677-1226

06-1-X4.02-8511 GRC

[Modular Distributed Concentrator for Solar Furnace](#) [203]

Honeybee Robotics Ltd.

, NY 00000

Chris Chapman (212) 966-0661

06-1-X4.03-8139 KSC

[Pneumatic Excavation Mechanism for Lunar Resource Utilization](#) [204]

Packer Engineering

, IL 00000

Charlotte Sartain (800) 323-0114

06-1-X4.02-9797 MSFC

[Lunar Oxygen and Silicon Beneficiation Using Only Solar Power](#) [205]

Physical Optics Corporation

, CA 00000

Gordon Drew (310) 320-3088

06-1-X4.03-9564 JSC

[Selective Photoinitiated Electrophoretic Separator](#) [206]

Physical Sciences, Inc.

, MA 00000

B. Green (978) 689-0003

06-1-X4.02-9046 JSC

[Multi-Use Solar Thermal System for Oxygen Production from Lunar Regolith \[7227-060\]](#) [207]

sysRAND Corporation

, CO 00000

Gary Rodriguez (303) 840-0797

06-1-X4.01-8138 JSC

[MPED: An ISRU Bucket Ladder Excavator Demonstrator System](#) [208]

- **X5 Extreme Environment Mechanisms (1)**

Honeybee Robotics Ltd.

, NY 00000

Stephan von Muehlen (646) 459-7856

06-1-X5.01-8741 GSFC

[Gear Bearing Transmission for the Lunar Environment](#) [209]

- **X6 Lightweight Structures and Materials (8)**

International Scientific Technologies, Inc.

, VA 00000

Wanda Gibson (540) 633-1424

06-1-X6.01-8619 LaRC

[Multifunctional Polymers Incorporating High-Z Neutron-Capture Nanoparticles](#) [210]

Iten Industries, Inc.

, OH 00000

William Kane (440) 997-6134

06-1-X6.03-9695 MSFC

[Composite Shell/Nanoporous Organosilica Core-Multifunctional Structures](#) [211]

Materials Research and Design

, PA 00000

Kent Buesking (610) 964-6130

06-1-X6.03-9045 MSFC

[Lightweight High Temperature Non-Eroding Throat Materials for Propulsion Systems](#) [212]

Microcosm, Inc.

, CA 00000

Lynn Shimohara (310) 726-4100

06-1-X6.02-8701 MSFC

[Lightweight, Composite Cryogenic Tank Structures](#) [213]

Mo-Sci Corp

, MO 00000

Thomas Day (573) 364-2338

06-1-X6.02-9365 LaRC

[High-Strength and Optically Transparent Fiber-Reinforced Composites](#) [214]

TDA Research, Inc.

, CO 00000

John Wright (303) 940-2300

06-1-X6.03-8922 LaRC

[A Nanotechnology Approach to Lightweight Multifunctional Polyethylene Composite Materials for Use Against the Space Environment](#) [215]

Technology Assessment & Transfer, Inc.

, MD 00000

Sharon Fehrenbacher (410) 224-3710

06-1-X6.03-9290 MSFC

[Magnesium MMC for Aerospace Structures](#) [216]

Wright Materials Research Co.

, OH 00000

Seng Tan (937) 431-8811

06-1-X6.03-8197 MSFC

[Ultra-Lightweight Nanocomposite Foams and Sandwich Structures for Space Structures Applications](#) [217]

• **X7 Operations of Exploration Equipment (6)**

Beck Engineering, Inc.

, WA 00000

Douglas Beck (360) 876-9710

06-1-X7.01-9703 JSC

[Vacuum-Compatible Multi-Axis Manipulator/Machining Center for Long-Duration Space Missions](#) [218]

Intelligent Automation, Inc.

, MD 00000

Mark James (301) 294-5221

06-1-X7.02-8690 JSC

[An Integrated Human System Interaction \(HSI\) Framework for Human-Agent Team Collaboration](#) [219]

ProtoInnovations, LLC

, PA 00000

Dimitrios Apostolopoulos (412) 916-8807

06-1-X7.03-8448 ARC

[Lunar All-Terrain Utility Vehicle for EVA](#) [220]

Traclabs, Inc.

, TX 00000

Jonathan Fast (210) 822-2310

06-1-X7.02-9316 JSC

[A Software Framework for Coordinating Human-Robot Teams](#) [221]

Traclabs, Inc.

, TX 00000

Jonathan Fast (210) 822-2310

06-1-X7.03-9595 JSC

[A Field Reconfigurable Manipulator for Rovers](#) [222]

Turbogizmo, LLC

, VA 00000

Stephen Schwartz (703) 625-8510

06-1-X7.02-9092 JSC

[Software Tools that Control a Framework of Perceptual Interfaces and Visual Display Systems for Human-System Interaction with Robotic and Autonomous Systems](#) [223]

• **X8 Energy Generation and Storage (7)**

Creare, Inc.

, NH 00000

James Barry (603) 640-2487

06-1-X8.02-9409 GRC

[A Novel, Ultra-Light, Heat Rejection System for Nuclear Power Generation](#) [224]

Distributed Energy Systems

, CT 00000

Stephen Szymanski (203) 678-2338

06-1-X8.03-9246 KSC

[Closed-Loop Pure Oxygen Static Feed Fuel Cell for Lunar Missions](#) [225]

Giner Electrochemical Systems, LLC

, MA 00000

Anthony Vaccaro (781) 529-0504

06-1-X8.03-9828 GRC

[Advanced Composite Bipolar Plate for Unitized Regenerative Fuel Cell/Electrolyzer Systems](#) [226]

Giner, Inc.

, MA 00000

Anthony LaConti (781) 529-0501

06-1-X8.03-9877 JSC

[Control of Internal and External Short Circuits in Lithium Ion and Lithium Batteries](#) [227]

Santa Fe Science and Technology, Inc.

, NM 00000

Ann Fick (505) 239-1789

06-1-X8.03-9013 GRC

[Composite Conducting Polymer Cathodes For High Energy Density Lithium-Ion Batteries](#) [228]

T/J Technologies, Inc.

, MI 00000

Maria Thompson (734) 213-1637

06-1-X8.03-8784 JPL

[Low Flammability, Wide Temperature Range Electrolytes for Lithium Ion Batteries](#) [229]

Yardney Technical Products, Inc.

, CT 00000

Vince Yevoli (860) 599-1100

06-1-X8.03-8162 JSC

[Nano-Engineered Materials for Rapid Rechargeable Space Rated Advanced Li-Ion Batteries](#) [230]

- **X9 Propulsion and Propellant Storage (11)**

Acellent Technologies, Inc.

, CA 00000

Amrita Kumar (408) 745-1188

06-1-X9.02-8357 MSFC

[Maturation of Structural Health Management Systems for Solid Rocket Motors](#) [231]

Advanced Materials Technology, Inc.

, FL 00000

Akbar Fard (813) 994-6360

06-1-X9.01-9950 JSC

[Advanced Insulation Materials for Cryogenic Propellant Storage Applications](#) [232]

Advanced Mechanical Technology, Inc.

, MA 00000

Andrew Vasilakis (617) 926-6700

06-1-X9.01-9928 GSFC

[High Efficiency Regenerative Helium Compressor](#) [233]

Alphaport, Inc.

, OH 00000

Anthony Miranda (216) 619-2400

06-1-X9.03-8629 GRC

[Physical Improvements in Exciter/Igniter Units](#) [234]

Aspen Aerogels, Inc.

, MA 00000

Heather Crouse (508) 691-1161

06-1-X9.01-8756 KSC

[Lightweight Aerogel Structural and Insulation Materials](#) [235]

Ceramic Composites, Inc.

, MD 00000

Sharon Fehrenbacher (410) 224-3710

06-1-X9.04-9251 GRC

[Improved CVD Coatings for NTP Fuel Elements](#) [236]

Combustion Research and Flow Technology

, PA 00000

Paula Schachter (215) 766-1520

06-1-X9.02-9519 MSFC

[Advanced Numerical Tools for Design and Analysis of In-Space, Valve and Feed Systems](#) [237]

IN Space, LLC

, IN 00000

Benjamin Austin (765) 775-2107

06-1-X9.03-8824 JSC

[Innovative Swirl Injector for LOX and Hydrocarbon Propellants](#) [238]

Quest Product Development Corporation

, CO 00000

Alan Kopelove (303) 670-5088

06-1-X9.01-8488 GRC

[Integrated MLI: Advanced Thermal Insulation Using Micro-Molding Technology](#) [239]

Transition45 Technologies, Inc.

, CA 00000

Edward Chen (714) 283-2118

06-1-X9.02-8412 MSFC

[Friction Stir Processing of Cast Superalloys](#) [240]

WASK Engineering, Inc.

, CA 00000

Wendelin Burkhardt (530) 672-2797

06-1-X9.03-8904 JSC

[Transpiration Cooled Thrust Chamber Technology](#) [241]

- **X10 Thermal Protection (2)**

ElectroDynamic Applications, Inc.

, MI 00000

Timothy Smith (734) 786-1434

06-1-X10.01-8793 ARC

[Low Intrusive Fiber Optic-Plug for TPS Materials](#) [242]

MATECH Advanced Materials

, CA 00000

HeeMann Yun (818) 991-8500

06-1-X10.01-9224 ARC

[High specific-strength C-Zr\(O\)C / C-ablator TPS for CEV](#) [243]

- **X11 Thermal Management (4)**

Advanced Cooling Technologies, Inc.

, PA 00000

Jon Zuo (717) 295-6058

06-1-X11.01-8432 JPL

[Vapor Compressor Driven Hybrid Two-Phase Loop](#) [244]

Creare, Inc.

, NH 00000

James Barry (603) 640-2487

06-1-X11.01-9477 JSC

[Efficient, Long-Life Biocidal Condenser](#) [245]

Creare, Inc.

, NH 00000

James Barry (603) 640-2487

06-1-X11.01-9369 JSC

[Lightweight, Flexible, and Freezable Heat Pump/Radiator for EVA Suits](#) [246]

Paragon Space Development Corp.

, AZ 00000

Taber MacCallum (520) 903-1000

06-1-X11.01-8656 JSC

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• **X12 Space Human Factors and Food Systems (4)**

Luminit, LLC

, CA 00000

Engin Arik (310) 320-1066

06-1-X12.01-9501 JSC

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Planet LLC

, WI 00000

Thomas Crabb (608) 827-5555

06-1-X12.02-9488 JSC

[Just-in-Time Simulation Platform](#) [249]

SmartWear, LLC

, CA 00000

Michael Pottenger (310) 396-1339

06-1-X12.02-9068 JSC

[Materials for Damping Ambient Acoustic and Vibration Signals](#) [250]

SVT Associates

, MN 00000

Leslie Price (952) 934-2100

06-1-X12.01-8932 JSC

[Biodegradable Long Shelf Life Food Packaging Material](#) [251]

- **X13 Space Radiation (3)**

Luna Innovations Incorporated

, VA 00000

Michael Pruzan (540) 552-5128

06-1-X13.01-8735 ARC

[Optical Real-Time Space Radiation Monitor](#) [252]

Payload Systems, Inc.

, MA 00000

Scott Hart (617) 868-8086

06-1-X13.01-9570 JSC

[Radiation Target Area Sample Environmental Chamber \(RTASEC\)](#) [253]

Radiation Monitoring Devices, Inc.

, MA 00000

Gerald Entine (617) 668-6800

06-1-X13.01-9313 JSC

[Tissue-Equivalent Radiation Dosimeter-On-A-Chip](#) [254]

- **X14 Exploration Medical Capabilities (6)**

Nanosonic, Inc.

, VA 00000

Lisa Lawson (540) 953-1785

06-1-X14.02-9306 JSC

[Lightweight, Wearable Metal Rubber-Textile Sensor for In Situ Lunar Autonomous Health Monitoring](#) [255]

Nyx Illuminated Clothing Company

, CA 00000

John Bell (562) 989-3940

06-1-X14.02-9549 JSC

[Wearable Health Monitoring Systems](#) [256]

Orbital Research, Inc.

, OH 00000

Joseph Snyder (216) 649-0399

06-1-X14.02-9443 JSC

[Lunar Health Monitor](#) [257]

Redondo Optics, Inc.

, CA 00000

Edgar Mendoza (310) 292-7673

06-1-X14.02-8215 JSC

[Miniature Non-Intrusive Multi-Parameter Oronasal Respiratory Health Monitor](#) [258]

Tesla Laboratories

, VA 00000

Patrick James (303) 554-5769

06-1-X14.01-8254 JSC

[Novel Versatile Intelligent Drug Delivery](#) [259]

ZIN Technologies, Inc.

, OH 00000

Robbie Bruewer (216) 925-1093

06-1-X14.01-9514 GRC

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