



## Proposals Selected for Negotiation of Contracts

Expand All

- **A1 Aviation Safety (18)**

**Acellent Technologies, Inc.**

835 Stewart Drive

Sunnyvale, CA 94085

Amrita Kumar (408) 745-1188

07-1-A1.06-8474 GRC

[Autonomous Composite Fan Containment Integrity Monitoring \(AUTOCONFIRM\) System](#) [1]

**Adherent Technologies, Inc.**

9621 Camino del Sol NE

Albuquerque, NM 87111

Susan Switzer (505) 346-1685

07-1-A1.01-8922 GRC

[Moisture Resistant Primer for Composite Bonded Repairs](#) [2]

**Aptima, Inc.**

12 Gill Street, Suite 1400

Woburn, MA 01801

Richard Salvage (781) 496-2487

07-1-A1.12-9786 ARC

[Computational Model and Measurement Tool for Evaluating the Design of Flight Deck Technologies](#) [3]

**Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

07-1-A1.11-9128 LaRC

[A Verification and Validation Tool for Diagnostic Systems](#) [4]

**Coherent Technical Services, Inc.**

46655 Expedition Drive, Suite 101

Lexington Park, MD 20653

Tom Sanders (301) 880-3341

07-1-A1.09-9909 LaRC

[Avionics for Scaled Remotely Operated Vehicles](#) [5]

**Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Barbara Agans (609) 538-0444

07-1-A1.09-8752 LaRC

[Serial In-Line Instrumentation Bus for ROV Engineering Research](#) [6]

**CSA Engineering, Inc.**

2565 Leghorn Street

Mountain View, CA 94043

Eric Anderson (650) 210-9000

07-1-A1.10-9435 AFRC

[Adaptive Filtering for Aeroservoelastic Response Suppression](#) [7]

**Emerald Sky Technologies, LLC**

6106 Hour Hand Court

Columbia, MD 21044

Steven Fritz (443) 745-4109

07-1-A1.02-9543 LaRC

[H/OZ: PFD and Collaborative Flight Control System](#) [8]

**Extreme Diagnostics, Inc.**

2525 Arapahoe Avenue, Bldg. E4, #262

Boulder, CO 80302

Robert Owen (303) 530-1248

07-1-A1.06-9979 GRC

[Three-Dimensional Health Monitoring of Sandwich Composites](#) [9]

**Extreme Diagnostics, Inc.**

2525 Arapahoe Avenue, Bldg. E4, #262

Boulder, CO 80302

Robert Owen (303) 530-1248

07-1-A1.07-9927 GRC

[Crucial Component Damage Detection, Monitoring and Mitigation](#) [10]

**Impact Technologies, LLC**

200 Canal View Blvd.

Rochester, NY 14623

Carol Marquardt (585) 424-1990

07-1-A1.07-9427 GRC

[Digital System e-Prognostics for Critical Aircraft Computer Systems](#) [11]

**Michigan Aerospace Corporation**

1777 Highland Drive, Suite B

Ann Arbor, MI 48108

Peter Tchoryk (734) 975-8777

07-1-A1.05-9348 ARC

[Data Mining for IVHM using Sparse Binary Ensembles](#) [12]

**Optimal Synthesis, Inc.**

868 San Antonio Road

Palo Alto, CA 94303

P. Menon (650) 213-8585

07-1-A1.04-8554 ARC

[Rapid Estimation of Aircraft Performance Models using Differential Vortex Panel Method and Extended Kalman Filter](#) [13]

**Picomatrix, LLC**

2925 Boardwalk Drive

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Ann Arbor, MI 48104

Marsha Gilbert (734) 864-5611

07-1-A1.06-9274 GRC

[Time Domain Terahertz Axial Computed Tomography Non Destructive Evaluation](#) [14]

**Scientific Monitoring, Inc.**

8777 E. Via de Ventura Drive, Suite 120

Scottsdale, AZ 85258

Walt Merrill (440) 328-5832

07-1-A1.05-9321 ARC

[A Low Cost, Hybrid Approach to Data Mining](#) [15]

**Scientific Systems Company, Inc.**

500 West Cummings Park, Suite 3000

Woburn, MA 01801

Jay Miselis (781) 933-5355

07-1-A1.04-9462 ARC

[Integrated Reconfigurable Aero and Propulsion Control for Improved Flight Safety of Commercial Aircraft](#) [16]

**ThinKom Solutions, Inc.**

3825 Del Amo Blvd., Suite 200

Torrance, CA 90503

Stuart Coppedge (310) 802-4501

07-1-A1.03-8543 LaRC

[A Low Cost, Electronically Scanned Array \(ESA\) Antenna Technology for Aviation Hazard Detection and Avoidance](#) [17]

**ZONA Technology, Inc.**

9489 E. Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

07-1-A1.10-8772 AFRC

[Adaptive Feedforward Feedback Control Framework](#) [18]

- **A2 Fundamental Aeronautics (39)**

**Advanced Dynamics, Inc.**

1500 Bull Lea Road, Suite 203

Lexington, KY 40511

Patrick Hu (859) 699-0441

07-1-A2.10-8315 ARC

[Gradient Transport Correction \(GTC\): A General Confinement Method for Better Simulation of Rotor Wake and Vortex-Dominated Flows](#) [19]

**Advanced Fluidics, LLC**

4217 Red Bandana Way

Ellicott City, MD 21042

Surya Raghu (410) 499-9237

07-1-A2.05-9161 LaRC

[Compact Fluidic Actuator Arrays For Flow Control](#) [20]

**Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 01821

Charles Kolb (978) 663-9500

07-1-A2.02-9654 GRC

[An Adaptive Chemistry Approach to Modeling Emissions Performance of Gas Turbine Combustors](#) [21]

**AeroSoft, Inc.**

1872 Pratt Drive, Suite 1275

Blacksburg, VA 24060

Kim Newman (540) 557-1900

07-1-A2.06-9041 LaRC

[A Multi-Physics CFD Toolkit for Reentry Flows](#) [22]

**Aspen Aerogels, Inc.**

30 Forbes Road

Northborough, MA 01532

Heather Creelman (508) 691-1161

07-1-A2.01-9382 GRC

[Multifunctional Aerogel Thermal Protection Systems for Hypersonic Vehicles](#) [23]

**ATA Engineering, Inc.**

11995 El Camino Real

San Diego, CA 92130

Ronan Cunningham (858) 481-2015

07-1-A2.03-8606 LaRC

[Development of an Engine Air-Brake for Quiet Drag Applications](#) [24]

**CFD Research Corporation**

215 Wynn Drive, 5th Floor

Huntsville, AL 35805

Silvia Harvey (256) 726-4800

07-1-A2.04-9818 LaRC

[Aeroservoelastic Modeling](#) [25]

**Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Paula Schachter (215) 766-1520

07-1-A2.06-9510 LaRC

[New Chemical Kinetics Approach for DSMC Applications to Nonequilibrium Flows](#) [26]

**Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Paula Schachter (215) 766-1520

07-1-A2.02-9405 GRC

[Turbulent Scalar Transport Model Validation for High Speed Propulsive Flows](#) [27]

**Continuum Dynamics, Inc.**

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34 Lexington Avenue

Ewing, NJ 08618

Barbara Agans (609) 538-0444

07-1-A2.01-9010 GRC

[High Temperature Shape Memory Alloy Technology for Inlet Flow Control](#) [28]

**D&P, LLC**

3409 N. 42nd Place

Phoenix, AZ 85018

Lei Tang (480) 518-0981

07-1-A2.06-9211 LaRC

[Gas-Kinetic Computational Algorithms for Hypersonic Flows in Continuum and Transitional Regimes](#) [29]

**Energy Plus Ltd.**

23342 South Pointe Drive, Suite E

Laguna Hills, CA 92653

Vincent McDonell (949) 583-1197

07-1-A2.02-9840 GRC

[Mechanistic Model for Atomization of Superheated Liquid Jet Fuel](#) [30]

**Energy Plus Ltd.**

23342 South Pointe Drive, Suite E

Laguna Hills, CA 92653

Vincent McDonell (949) 583-1197

07-1-A2.02-9839 GRC

[Automated Analysis of Imaging Based Experiments](#) [31]

**Hyper-Therm High-Temperature Composites**

18411 Gothard Street, Units B&C

Huntington Beach, CA 92648

Wayne Steffier (714) 375-4085

07-1-A2.01-9728 GRC

[Durable, High Thermal Conductivity Melt Infiltrated Ceramic Composites for Turbine Engine Applications](#) [32]

**Intech Software Solutions, Inc.**

5655 Peachtree Parkway, Suite 202

Norcross, GA 30092

Walter Clough (404) 372-2755

07-1-A2.05-8326 LaRC

[Advanced Turbulence Modeling for Unsteady and Stalled Flows](#) [33]

**Jabiru Software and Services**

3819 Sunnycroft Place

West Lafayette, IN 47906

Sanjay Mathur (765) 497-3653

07-1-A2.06-8756 LaRC

[Efficient Radiation Simulation in Complex Geometries with Applications to Planetary Entry](#) [34]

**Lawrie Technology, Inc.**

227 Hathaway E

Girard, PA 16417

Duncan Lawrie (814) 746-4125

07-1-A2.10-8919 ARC

[Fully Integral, Flexible Composite Driveshaft](#) [35]

**M4 Engineering, Inc.**

2161 Gundry Avenue

Signal Hill, CA 90755

Kevin Roughen (562) 981-7797

07-1-A2.04-8573 LaRC

[Generalized Reduced Order Model Generation](#) [36]

**M4 Engineering, Inc.**

2161 Gundry Avenue

Signal Hill, CA 90755

Kevin Roughen (562) 981-7797

07-1-A2.09-8400 ARC



[Adaptive Structural Mode Control](#) [37]

**M4 Engineering, Inc.**

2161 Gundry Avenue

Signal Hill, CA 90755

Kevin Roughen (562) 981-7797

07-1-A2.01-8385 GRC

[Optimization of Weight Including Damage Scenarios](#) [38]

**Materials Research and Design**

300 E. Swedesford Road

Wayne, PA 19087

Brian Sullivan (610) 964-6131

07-1-A2.01-8811 GRC

[Multi-Axial Damage Index and Accumulation Model for Predicting Fatigue Life of CMC Materials](#) [39]

**Materials Technologies Corporation**

57 Maryanne Drive

Monroe, CT 06468

Yogesh Mehrotra (203) 874-3100

07-1-A2.10-8515 ARC

[3D Warping Actuation Driven Dynamic Camber Control Concept for Helicopter Rotor Blades](#) [40]

**Materials Technologies Corporation**

57 Maryanne Drive

Monroe, CT 06468

Yogesh Mehrotra (203) 874-3100

07-1-A2.10-8476 ARC

[Elastomeric Dampers Derived From First-Principles-Based Analytical Simulation](#) [41]

**Mechanical Solutions, Inc.**

11 Apollo Drive

Whippany, NJ 07981

Eric Olson (973) 326-9920

07-1-A2.04-8395 LaRC

[Blade Vibration Measurement System for Characterization of Closely Spaced Modes and Mistuning](#) [42]

**MetroLaser, Inc.**

2572 White Road

Irvine, CA 92614

Christina Arnold (949) 553-0688

07-1-A2.08-9753 AFRC

[An All Electronic, Adaptive, Focusing Schlieren System for Flight Research](#) [43]

**Michigan Engineering Services, LLC**

2890 Carpenter Road, Suite 1900

Ann Arbor, MI 48108

Nick Vlahopoulos (734) 358-0792

07-1-A2.09-8604 ARC

[Utilizing High Fidelity Simulations in Multidisciplinary Optimization of Aircraft Systems](#) [44]

**Nanosonic, Inc.**

1485 South Main Street

Blacksburg, VA 24060

Lisa Lawson (540) 953-1785

07-1-A2.10-9479 ARC

[Multifunctional Erosion Resistant Icephobic Appliqu](#) [45]

**Optimal Synthesis, Inc.**

868 San Antonio Road

Palo Alto, CA 94303

P. Menon (650) 213-8585

07-1-A2.07-8610 GRC

[Advanced Control System Design for Hypersonic Vehicles](#) [46]

**Peregrine Power, LLC**

27350 SW 95th Avenue, Suite 3030

Wilsonville, OR 97070

Dallas Marckx (503) 682-7001

07-1-A2.10-9788 ARC

[Variable Speed Rotor System](#) [47]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

07-1-A2.02-9886 GRC

[Novel Catalyst Development for Synthetic Endothermic Fuels](#) [48]

**Reaction Systems, LLC**

1814 19th Street

Golden, CO 80401

Todd Leeson (303) 881-7992

07-1-A2.02-8933 GRC

[Species Source Term Mapping for Reacting Flow CFD](#) [49]

**Rolling Hills Research Corporation**

420 N. Nash Street

El Segundo, CA 90245

Brian Kramer (310) 640-8781

07-1-A2.08-9140 AFRC

[Novel MAV Air Data System](#) [50]

**Rolling Hills Research Corporation**

420 N. Nash Street

El Segundo, CA 90245

Brian Kramer (310) 640-8781

07-1-A2.08-8599 AFRC

[Innovative Self-Powered and Self-Contained Sensor Array for Separation Detection](#) [51]

**Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505

Alan Stanton (505) 984-1322

07-1-A2.10-9334 ARC

[Optical Method for Real-Time Turbine Blade Tip Clearance Measurement](#) [52]

**Sukra Helitek, Inc.**

3146 Greenwood Road

Ames, IA 50014

R Nappinnai (515) 292-9646

07-1-A2.10-8873 ARC

[Computational Wind Tunnel: A Design Tool for Rotorcraft](#) [53]

**Systems Technology, Inc.**

13766 South Hawthorne Blvd.

Hawthorne, CA 90250

Suzie Fosmore (310) 679-2281

07-1-A2.04-8684 LaRC

[Aeroelastic Uncertainty Analysis Toolbox](#) [54]

**UES, Inc.**

4401 Dayton-Xenia Road

Dayton, OH 45432

John Gruenwald (937) 426-6900

07-1-A2.01-9570 GRC

[Lightweight High Temperature Beta Gamma Alloy/Process Development for Disk and Blade Applications](#) [55]

**VorCat, Inc.**

1370 Piccard Drive, Suite 210

Rockville, MD 20850

Jacob Krispin (301) 947-9600

07-1-A2.05-9985 ARC

[Grid-Free LES 3D Vortex Method for the Simulation of Tubulent Flows Over Advanced Lifting Surfaces](#) [56]

**ZONA Technology, Inc.**

9489 E. Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

07-1-A2.04-9327 LaRC

[Nonlinear Aerodynamic ROM-Structural ROM Methodology for Inflatable Aeroelasticity in Hypersonic Atmospheric Entry](#) [57]

• **A3 Airspace Systems (8)**

**Aerotech Research**

11836 Fishing Point Drive, Suite 200

Newport News, VA 23606

Steven Velotas (757) 723-1300

07-1-A3.01-9581 ARC

[Turbulence Impact Module for ATM Planning and Research](#) [58]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 400

Rockville, MD 20855

Mark James (301) 294-5221

07-1-A3.02-8971 LaRC

[A Simulation Testbed for Dynamic Air Corridors within the Next Generation Air Transportation System](#) [59]

**Metron Aviation, Inc.**

131 Elden Street, Suite 200

Herndon, VA 20170

David Gaul (703) 234-0802

07-1-A3.01-9057 ARC

[On-Demand Special Use Airspace](#) [60]

**Metron Aviation, Inc.**

131 Elden Street, Suite 200

Herndon, VA 20170

David Gaul (703) 234-0802

07-1-A3.01-8982 ARC

[Robust Traffic Flow Management: Coevolutionary Approach](#) [61]

**Mosaic ATM, Inc.**

1190 Hawling Place

Leesburg, VA 20175

Chris Brinton (703) 737-7637

07-1-A3.02-8836 ARC

[Collaborative Outbound Taxi Metering for Environmental Benefits](#) [62]

**Mosaic ATM, Inc.**

1190 Hawling Place

Leesburg, VA 20175

Chris Brinton (703) 737-7637

07-1-A3.02-8835 ARC

[Microscopic Analysis and Modeling of Airport Surface Sequencing](#) [63]

**Optical Scientific, Inc.**

2 Metropolitan Court, Suite 6

Gaithersburg, MD 20878

Chung-Dyi Hsu (301) 963-3630

07-1-A3.02-8812 LaRC

[An Optical Wake Vortex Detection System for Super-Density Airport Operation](#) [64]

**The Innovation Laboratory, Inc.**

2360 SW Chelmsford Avenue

Portland, OR 97201

Michelle Camarda (503) 242-1761

07-1-A3.01-9215 ARC

[Airspace Analyzer for Assessing Airspace Directional Permeability](#) [65]

- **A4 Aeronautics Test Technologies (2)**

**Research Support Instruments, Inc.**

4325-B Forbes Blvd.

Lanham, MD 20706

Christopher Rollins (301) 306-0010

07-1-A4.01-8824 GRC

[Friction-Sensing Retroreflector Array Patches \(FRAP\)](#) [66]

**Waddan Systems**

8801 Encino Avenue

Northridge, CA 91325

Mahendra Singh (661) 257-4172

07-1-A4.01-8341 AFRC

[Aircraft Nodal Data Acquisition System \(ANDAS\)](#) [67]

- **O1 Space Communications and Navigation (18)**

**Adherent Technologies, Inc.**

9621 Camino del Sol NE

Albuquerque, NM 87111

Susan Switzer (505) 346-1685

07-1-O1.04-9130 LaRC

[Foamed Antenna Support for Very Large Apertures](#) [68]

**Applied EM, Inc.**

144 Research Drive

Hampton, VA 23666

C. Reddy (757) 224-2035

07-1-O1.04-9232 JSC

[Conformal Space Suit Antenna Development for Enhanced EVA Communications and Wearable Computer Applications](#) [69]

**Coherent Logix, Inc.**

1120 S. Capital of Texas Hwy, Bldg. 3, Suite 310

Austin, TX 78746

Donald Gorsuch (512) 382-8951

07-1-O1.05-8732 GRC

[Software Defined Common Processing System \(SDCPS\)](#) [70]

**Composite Technology Development, Inc.**

2600 Campus Drive, Suite D

Lafayette, CO 80026

Lori Pike (303) 664-0394

07-1-O1.04-8808 GRC

[Surface Optimization Techniques for Deployable Reflectors](#) [71]

**Eltron Research & Development, Inc.**

4600 Nautilus Court South

Boulder, CO 80301

James Beck (303) 530-0263

07-1-O1.07-8424 GRC

[Electrochemical Capacitor Development for Pulsed Power Communications](#) [72]

**Epsilon Lambda Electronics Corporation**

396 Fenton Lane, Suite 601

West Chicago, IL 60185

Robert Knox (630) 293-7118

07-1-O1.10-8605 GRC

[V-Band Wireless Surface Networks](#) [73]

**Hittite Microwave Corporation**

20 Alpha Road

Chelmsford, MA 01824

Mary Crockett (719) 590-1112

07-1-O1.09-9627 JPL

[MMIC for High-Efficiency Ka-Band GaN Power Amplifiers \(2007043\)](#) [74]

**Innovative Communications Engineering**

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55 Middlesex Street, Suite 227

N. Chelmsford, MA 01863

Erik Thoen (617) 645-3960

07-1-O1.01-9587 GSFC

[High-Rate Receiver Design](#) [75]

**Lexycom Technologies, Inc.**

1227 Reserve Drive

Longmont, CO 80501

Lisa Livdahl (303) 774-7822

07-1-O1.06-9935 JSC

[Software Defined Multiband EVA Radio](#) [76]

**Milli Sensor Systems and Actuators, Inc.**

93 Border Street

West Newton, MA 02465

Nunzi Sapuppo (617) 965-4872

07-1-O1.03-9070 GSFC

[Stable Tactical-Grade MEMS IMU for Spin-Stabilized Rockets](#) [77]

**Neocera, LLC**

10000 Virginia Manor Road

Beltsville, MD 20705

Solomon Kolagani (301) 210-1010

07-1-O1.09-8325 JPL

[Development of Epitaxial GaN Films for RF Communications](#) [78]

**Omega Optics, Inc.**

10435 Burnet Road, Suite 108

Austin, TX 78758

Clara Chen (512) 996-8833

07-1-O1.04-8886 GRC

[Printable Nano-Field Effect Transistors Combined with Carbon Nanotube Based Printable Interconnect Wires for Large-Area Deployable Active Phased-Array](#) [79]

**RT Logic**

12515 Academy Ridge View

Colorado Springs, CO 80921

Paul Thoreson (858) 673-7392

07-1-O1.01-9340 JPL

[Low-Density Parity-Check Codes for High Data Rate Receivers](#) [80]

**Scientific Systems Company, Inc.**

500 West Cummings Park, Suite 3000

Woburn, MA 01801

Jay Miselis (781) 933-5355

07-1-O1.10-9476 JSC

[SELENE - Self-Forming Extensible Lunar EVA Network](#) [81]

**Space Micro, Inc.**

10401 Roselle Street, Suite 400

San Diego, CA 92121

David Strobel (858) 332-0702

07-1-O1.05-8647 GRC

[Low Power Universal Direct Conversion Transmit and Receive \(UTR\) RF Module for Software Defined Radios](#) [82]

**Surface Optics Corporation**

11555 Rancho Bernardo Road

San Diego, CA 92127

Jill Trolinger (858) 583-4362

07-1-O1.08-8373 JPL

[Very Large Solar Rejection Filter for Laser Communication](#) [83]

**SVT Associates**

7620 Executive Drive

Eden Prairie, MN 55344

Leslie Price (952) 934-2100

07-1-O1.09-9383 JPL

[Integrated Production of Ultra-Low Defect GaN Films and Devices for High-Power Amplifiers](#) [84]

**Toyon Research Corporation**

6800 Cortona Drive

Goleta, CA 93117

Marcella Lindbery (805) 968-6787

07-1-O1.03-9524 GSFC

[GPS Attitude Determination for Launch Vehicles](#) [85]

• **O2 Space Transportation (5)**

**International Electronic Machines Corporation (IEM)**

60 Fourth Avenue

Albany, NY 12202

Ryk Spoor (518) 449-5504

07-1-O2.02-9942 SSC

[Intelligent Flamefinder Detection and Alert System \(IFDAS\)](#) [86]

**Light Prescriptions Innovators, LLC**

2400 Lincoln Avenue

Altadena, CA 91001

Richard Barron (626) 296-6461

07-1-O2.01-9731 KSC

[Hyperspectral Imager - Tracker](#) [87]

**Mobitrum Corporation**

8070 Georgia Avenue, Suite 209

Silver Spring, MD 20910

Ray Wang (301) 585-4040

07-1-O2.02-9994 SSC

[Sensor Area Network for Integrated Systems Health Management](#) [88]

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**PERCEPTEK**

12395 N. Mead Way

Littleton, CO 80125

Steve VanHooser (720) 344-1037

07-1-O2.03-8968 KSC

[Persistant Launch Range Surveillance](#) [89]

**Physical Optics Corporation**

20600 Gramercy Place, Bldg. 100

Torrance, CA 90501

Gordon Drew (310) 320-3088

07-1-O2.01-9551 KSC

[Spectral Imaging Visualization and Tracking System](#) [90]

• **O3 Processing and Operations (5)**

**Emergent Space Technologies, Inc.**

6301 Ivy Lane, Suite 700

Greenbelt, MD 20770

Everett Cary (301) 345-1535

07-1-O3.04-8775 ARC

[Ground Enterprise Management System](#) [91]

**Luna Innovations Incorporated**

1703 South Jefferson Street SW, Suite 400

Roanoke, VA 24016

Angela Keen (540) 552-5128

07-1-O3.03-9063 KSC

[Self Healing Ultrahydrophobic Coatings for Corrosion Protection](#) [92]

**S&K Aerospace**

63066 Old Hwy 93

St Ignatius, MT 59865

Arthur Molin (281) 480-1453

07-1-O3.01-9652 JSC

[Electronic Procedures for Medical Operations](#) [93]

**Stottler Henke Associates, Inc.**

951 Mariner's Island Blvd., Suite 360

San Mateo, CA 94404

Carolyn Maxwell (650) 931-2726

07-1-O3.04-9160 ARC

[Intelliviz - An Intelligent Telemetry Data Visualization Assistant](#) [94]

**WEVOICE, Inc.**

9 Sylvan Drive

Bridgewater, NJ 08807

Sherry Ye (718) 614-8084

07-1-O3.02-8769 GRC

[Microphone Array Signal Processing and Active Noise Control for the In-Helmet Speech Communication](#) [95]

• **S1 Sensors, Detectors, and Instruments (42)**

**Aculight Corporation**

22121 - 20th Avenue SE

Bothell, WA 98021

Robert Afzal (425) 482-1100

07-1-S1.01-9711 GSFC

[All-Fiber Components for Micro-Structured Fibers](#) [96]

**Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 01821

Andrew Freedman (978) 663-9500

07-1-S1.08-9736 ARC

[Multispectral Particle Absorption Monitor](#) [97]

**Aerotech Research**

11836 Fishing Point Drive, Suite 200

Newport News, VA 23606

Steven Velotas (757) 723-1300

07-1-S1.08-9582 ARC

[3-D Wind and Turbulence Measurement System for UAV](#) [98]

**Atlas Scientific**

1367 Camino Robles Way

San Jose, CA 95120

Ali Kashani (408) 507-0906

07-1-S1.07-9924 JPL

[A Thermal Switch for Space Applications](#) [99]

**Aymont Technology, Inc.**

27 Kent Street, Suite 105A

Ballston Spa, NY 12020

Larry Rowland (518) 810-3294

07-1-S1.05-9011 GSFC

[SiC Avalanche Photodiodes and Arrays](#) [100]

**Black Forest Engineering, LLC**

PO Box 8059

Colorado Springs, CO 80908

Vivian McDonald (719) 593-9501

07-1-S1.05-9289 MSFC

[Low Power X-Ray Photon Resolving Imaging Array](#) [101]

**Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

James Barry (603) 640-2487

07-1-S1.09-9757 GSFC

[Very Low-Cost, Rugged, High-Vacuum System for Mass Spectrometers](#) [102]

**Crystal Research, Inc.**

48501 Warm Springs Blvd., Suite 103

Fremont, CA 94539

Suning Tang (510) 444-0833

07-1-S1.09-9135 ARC

[A Fiber Raman Spectrometer for Field Detecting Geological Materials](#) [103]

**Dynamic Sensing Technologies**

125 I Brittany Manor Dr

Amherst, MA 01002

Luko Krnan (520) 444-5622

07-1-S1.02-9952 GSFC

[Digital Conically Scanned L-Band Radar](#) [104]

**Energy Science Laboratories, Inc.**

6888 Nancy Ridge Drive

San Diego, CA 92121

Timothy Knowles (858) 552-2034

07-1-S1.02-8910 JPL

[Space Compatible Radar Absorbing Materials](#) [105]

**Fibertek, Inc.**

510 Herndon Parkway

Herndon, VA 20170

Tracy Perinis (703) 471-7671

07-1-S1.01-9270 LaRC

[Single Frequency Lasers for Space-Based Wind and Aerosol Lidar](#) [106]

**Flight Landata, Inc.**

One Parker Street

Lawrence, MA 01843

Brooks Patterson (978) 682-7767

07-1-S1.08-9341 GSFC

[Miniaturized Airborne Imaging Central Server System](#) [107]

**GPD Optoelectronics Corporation**

7 Manor Parkway

Salem, NH 03079

Rufus Ward (603) 894-6865

07-1-S1.04-9545 JPL

[GaAs JFETs for Extremely Low-Noise, Deep Cryogenic Sensor Readout](#) [108]

**Hittite Microwave Corporation**

20 Alpha Road

Chelmsford, MA 01824

Mary Crockett (719) 590-1112

07-1-S1.02-9629 JPL

[Pulsed Power Amplifier for Enhanced Transmitter Power Output in L- and P-band T/R Modules \(2007045\)](#) [109]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 400

Rockville, MD 20855

Mark James (301) 294-5221

07-1-S1.02-8869 GSFC

[Reconfigurable L-band Radar Transceiver using Digital Signal Synthesis](#) [110]

**inXitu, Inc.**

2551 Casey Avenue, Suite A

Mountain View, CA 94043

Philippe Sarrazin (650) 799-2118

07-1-S1.09-8541 JPL

[Hybrid Powder - Single Crystal X-Ray Diffraction Instrument for Planetary Mineralogical Analysis of Unprepared Samples](#) [111]

**JJW Consulting, Inc.**

1500 New Horizons Blvd.



North Amityville, NY 11701

James Whelehan (970) 392-2756

07-1-S1.03-9150 JPL

[Low Noise Millimeter Wave LNA](#) [112]

**LightSmyth Technologies**

1720 Willow Creek Circle, #520

Eugene, OR 97402

Thomas Mossberg (541) 431-0027

07-1-S1.08-8682 MSFC

[New Class of Multi-Channel Spectrometers Based on Diffraction Grating Array](#) [113]

**Los Gatos Research**

67 East Evelyn Avenue, Suite 3

Mountain View, CA 94041

Anthony O'Keefe (808) 826-7031

07-1-S1.09-9028 JPL

[Novel Micro-Capillary Electrochromatography for Mars Organic Detector](#) [114]

**Luna Innovations Incorporated**

1703 South Jefferson Street SW, Suite 400

Roanoke, VA 24016

Angela Keen (540) 552-5128

07-1-S1.04-8475 JPL

[Ge Quantum Dot Infrared Imaging Camera](#) [115]

**Luxel Corporation**

515 Tucker Avenue

Friday Harbor, WA 98250

Dianne Hall (360) 378-4137

07-1-S1.05-8972 GSFC

[Blocking Filters with Enhanced Throughput for X-Ray Microcalorimetry](#) [116]

**Michigan Aerospace Corporation**

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1777 Highland Drive, Suite B

Ann Arbor, MI 48108

Peter Tchoryk (734) 975-8777

07-1-S1.01-9084 LaRC

[355nm Photon-Recycled Fringe Imager for HSRL](#) [117]

**Neocera, LLC**

10000 Virginia Manor Road

Beltsville, MD 20705

Thomas Hennigan (301) 210-1010

07-1-S1.07-8729 GSFC

[Superconducting Current Leads for Cryogenic Systems](#) [118]

**nLight Photonics**

5408 NE 88th Street, Building E

Vancouver, WA 98665

Dan Milewski (360) 566-4479

07-1-S1.01-8427 LaRC

[Wavelength Stabilized High Brightness Direct Diode Pumps for Solid State LIDAR Systems at Eye-Safe Wavelengths](#) [119]

**Novawave Technologies**

900 Island Drive, Suite 101

Redwood City, CA 94065

James Scherer (650) 610-0956

07-1-S1.08-8517 ARC

[Compact, Ultrasensitive Formaldehyde Monitor](#) [120]

**Physical Optics Corporation**

20600 Gramercy Place, Bldg. 100

Torrance, CA 90501

Gordon Drew (310) 320-3088

07-1-S1.05-9739 GSFC

[Silicon Microchannel Plate Large Area UV Detector](#) [121]

**Polaronyx, Inc.**

470 Lakeside Drive, Suite F

Sunnyvale, CA 94085

Jian Liu (408) 245-9588

07-1-S1.01-9894 GSFC

[A Space-Qualified Single Frequency Fiber Laser for LISA](#) [122]

**Polaronyx, Inc.**

470 Lakeside Drive, Suite F

Sunnyvale, CA 94085

Jian Liu (408) 245-9588

07-1-S1.01-9794 LaRC

[High Energy Single Frequency Fiber Laser at Low Repetition Rate](#) [123]

**Polatomic, Inc.**

1124 Commerce Drive

Richardson, TX 75081

Robert Slocum (972) 690-0099

07-1-S1.06-8715 GSFC

[High-Range Scalar Helium Magnetometer \(HSHM\)](#) [124]

**Polatomic, Inc.**

1124 Commerce Drive

Richardson, TX 75081

Robert Slocum (972) 690-0099

07-1-S1.06-8463 GSFC

[Self-Calibrating Vector Helium Magnetometer \(SVHM\)](#) [125]

**Q-Peak, Inc.**

135 South Road

Bedford, MA 01730

Peter Moulton (781) 275-9535

07-1-S1.01-9308 LaRC

[Efficient Tm-Fiber-Pumped Ho:YLF Laser System for Coherent LIDAR Applications](#) [126]

**Remote Sensing Solutions, Inc.**

P.O. Box 1092

Barnstable, MA 02631

James Canniff (508) 362-9400

07-1-S1.02-8288 GSFC

[Hybrid Ocean Wind Sensor \(HOWS\)](#) [127]

**Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505

Alan Stanton (505) 984-1322

07-1-S1.08-9267 MSFC

[Fast Temperature Sensor for use in Atmospheric Sciences](#) [128]

**Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505

Alan Stanton (505) 984-1322

07-1-S1.06-8996 GSFC

[Magnetometer for Calibrating Jovian Fields](#) [129]

**Spectra Research, Inc.**

2790 Indian Ripple Road

Dayton, OH 45440

Jerry Capozzi (937) 320-5999

07-1-S1.02-9359 JPL

[Dual Polarization Multi-Frequency Antenna Array](#) [130]

**SVT Associates**

7620 Executive Drive

Eden Prairie, MN 55344

Leslie Price (952) 934-2100

07-1-S1.05-9286 GSFC

[Advanced Coating Technology for Enhanced Performance of Microchannel Plates for UV Detectors](#) [131]

**Tai-Yang Research Company**

2031 E. Paul Dirac Drive

Tallahassee, FL 32310

Christopher Rey (865) 250-0237

07-1-S1.07-9378 GSFC

[Novel Lightweight Magnets for Space Applications](#) [132]

**The Peregrine Falcon Corporation**

1072 A Serpentine Lane

Pleasanton, CA 94566

Robert Hardesty (925) 461-6806

07-1-S1.07-8635 JPL

[Thermal Pyrolytic Graphite Enhanced Components](#) [133]

**Virginia Diodes, Inc.**

979 Second Street SE

Charlottesville, VA 22902

Thomas Crowe (434) 297-3257

07-1-S1.03-8994 GSFC

[Schottky Heterodyne Receivers with Full Waveguide Bandwidth](#) [134]

**Vista Photonics, Inc.**

67 Condesa Road

Santa Fe, NM 87508

Jeffrey Pilgrim (505) 466-3830

07-1-S1.09-9913 JPL

[Airborne Isotopic Hydrocarbon Analyzer for Titan](#) [135]

**Vista Photonics, Inc.**

67 Condesa Road

Santa Fe, NM 87508

Jeffrey Pilgrim (505) 466-3830

07-1-S1.08-9912 GSFC

[High-Performance Airborne Optical Carbon Dioxide Analyzer](#) [136]

**Xiomas Technologies**

1317 Skyway Drive

Ypsilanti, MI 48197

John Green (734) 646-6535

07-1-S1.08-9119 ARC

[Airborne Wide Area Imager for Wildfire Mapping and Detection](#) [137]

• **S2 Advanced Telescope Systems (9)**

**Advanced Materials Technology, Inc.**

9324 Mandrake Court

Tampa, FL 33647

Akbar Fard (813) 994-6360

07-1-S2.05-9745 MSFC

[Novel Materials for Mirror Substrate in Space Telescopes](#) [138]

**Busek Co., Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 655-5565

07-1-S2.01-8706 JPL

[Colloid Thruster for Attitude Control Systems \(ACS\) and Tip-off Control Applications](#) [139]

**Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

James Barry (603) 640-2487

07-1-S2.05-9744 GSFC

[The Affordable Pre-Finishing of Silicon Carbide for Optical Applications](#) [140]

**Microscale, Inc.**

165-X New Boston Street

Woburn, MA 01801

Xingtao Wu (781) 995-2245

07-1-S2.02-8576 JPL

[Single Crystal Bimorph Array Driven Deformable Mirrors](#) [141]

**Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Keith Jamison (512) 389-9990

07-1-S2.04-9624 MSFC

[Radiation Hard Multi-Layer Optical Coatings](#) [142]

**Payload Systems, Inc.**

247 Third Street

Cambridge, MA 02142

Scott Hart (617) 868-8086

07-1-S2.01-8714 GSFC

[Synthetic Imaging Maneuver Optimization \(SIMO\)](#) [143]

**RAPT Industries, Inc.**

46535 Fremont Blvd.

Fremont, CA 94538

Kevin Carr (510) 933-1020

07-1-S2.05-8391 MSFC

[Reactive Atom Plasma Processing of Slumped Glass Wedges](#) [144]

**Scientific Systems Company, Inc.**

500 West Cummings Park, Suite 3000

Woburn, MA 01801

Jay Miselis (781) 933-5355

07-1-S2.01-8707 JPL

[Novel Approaches for Spacecraft Formation Robustness and Performance using Distributed Estimation, Control and Communication](#) [145]

**TRS Ceramics, Inc.**

2820 East College Avenue

State College, PA 16801

Wesley Hackenberger (814) 238-7485

07-1-S2.02-8981 JPL

[Micromachined Piezoelectric Actuators for Cryogenic Adaptive Optics](#) [146]

• **S3 Spacecraft and Platform SubSystems (15)**

**Ashwin-Ushas Corp, Inc.**

206 Ticonderoga Blvd.

Freehold, NJ 07728

Prasanna Chandrasekhar (732) 462-1270

07-1-S3.02-9170 GSFC

[Variable Emissivity Electrochromics Using Ionic Electrolytes and Low Solar Absorptance Coatings](#) [147]

**Atlas Scientific**

1367 Camino Robles Way

San Jose, CA 95120

Ali Kashani (408) 507-0906

07-1-S3.02-9921 GSFC

[Thermally Conductive Tape Based on Carbon Nanotube Array](#) [148]

**Coherent Logix, Inc.**

1120 S. Capital of Texas Hwy, Bldg. 3, Suite 310

Austin, TX 78746

Donald Gorsuch (512) 382-8951

07-1-S3.01-8738 GSFC

[Reliable High Performance Processing System \(RHPPS\)](#) [149]



**CU Aerospace, LLC**

2100 South Oak Street, Suite 206

Champaign, IL 61820

David Carroll (217) 333-8274

07-1-S3.04-9790 MSFC

[UltraSail Solar Sail Flight Experiment](#) [150]

**EPIR Technologies, Inc.**

590 Territorial Drive, Suite B

Bolingbrook, IL 60440

Sivalingam Sivananthan (630) 771-0201

07-1-S3.03-9293 GRC

[High Efficiency, High Mass Specific Power Two-Terminal Solar Cells](#) [151]

**Infocitex Corporation**

303 Bear Hill Road

Waltham, MA 02451

Michelle Sansivero (781) 890-1338

07-1-S3.05-8864 GSFC

[Enhanced PBO Fiber Reinforced Balloon Envelope Materials for Titan Aerobots](#) [152]

**Kopin Corporation**

200 John Hancock Road

Taunton, MA 02780

Roger Welser (508) 824-6696

07-1-S3.03-9444 GRC

[Nanostructured InGaP Solar Cells](#) [153]

**Materials Modification, Inc.**

2721-D Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

07-1-S3.03-8357 GRC

[Quantum Dot Based Photovoltaics](#) [154]

**MicroLink Devices**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 588-3001

07-1-S3.03-8411 GRC

[Lightweight InP Solar Cells for Space Applications](#) [155]

**NEI Corporation**

201 Circle Drive N., Suite 102/103

Piscataway, NJ 08854

Ganesh Skandan (732) 868-3141

07-1-S3.04-9053 MSFC

[Silicone Adhesives for High Temperature Inflatable Fabrics and Polymer Films](#) [156]

**Quallion, LLC**

12744 San Fernando Road

Sylmar, DE 91342

Vincent Visco (818) 833-2025

07-1-S3.03-9617 JPL

[Expanded Operational Temperature Range for Space Rated Li-Ion Batteries](#) [157]

**Rini Technologies, Inc.**

582 South Econ Circle

Orlando, FL 32765

Dan Rini (407) 359-7138

07-1-S3.02-9398 JPL

[Lightweight and Energy Efficient Heat Pump](#) [158]

**Sienna Technologies, Inc.**

19501 144th Avenue NE, Suite F-500

Woodinville, WA 98072

Ender Savrun (425) 485-7272

07-1-S3.04-8649 JPL

[A High Performance Cathode Heater for Hall Thrusters](#) [159]

**Sun Innovations, Inc.**

44166 Old Warm Springs Blvd.

Fremont, CA 94538

Xiao-Dong Sun (510) 651-1329

07-1-S3.03-9727 GRC

[Novel Materials that Enhance Efficiency and Radiation Resistance of Solar Cells](#) [160]

**TDA Research, Inc.**

12345 W. 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

07-1-S3.03-8862 GRC

[Flexible, Lightweight, Low-Cost Organic Photovoltaics with Improved Efficiency](#) [161]

• **S4 Low-Cost Small Spacecraft and Technologies (18)**

**Advanced Solutions, Inc.**

10822 W. Toller Drive, Suite 250

Littleton, CO 80127

Allen Bucher (303) 979-2417

07-1-S4.05-8552 ARC

[Modular Autonomous C&DH Software with Built-In Simulation/Test](#) [162]

**Advatech Pacific, Inc.**

1849 North Wabash Avenue

Redlands, CA 92374

Tom Kister (909) 307-6218

07-1-S4.08-9441 ARC

[Virtual Satellite Integration Environment](#) [163]

**AeroAstro Corporation**

20145 Ashbrook Place

Ashburn, VA 20147

Brenda Gravelle (720) 974-0510

07-1-S4.03-8382 ARC

[Wireless Data and Power Transfer on Small Spacecraft](#) [164]

**CSA Engineering, Inc.**

2565 Leghorn Street

Mountain View, CA 94043

Eric Anderson (650) 210-9000

07-1-S4.02-9538 ARC

[ESPA for Lunar and Science Missions](#) [165]

**Delta Velocity Corporation**

932 Edwards Ferry Road, Suite 14

Leesburg, VA 20176

Joseph Padavano (540) 338-4103

07-1-S4.01-8693 ARC

[Minimum Cost Nanosatellite Launch System](#) [166]

**Garvey Spacecraft Corporation**

389 Haines Avenue

Long Beach, CA 90814

John Garvey (562) 498-2984

07-1-S4.01-8929 ARC

[Flight Testing of Wireless Networking for Nanosat Launch Vehicles](#) [167]

**Innoflight, Inc.**

5850 Oberlin Drive, Suite 340

San Diego, CA 92121

Jeffrey Janicik (858) 638-1580

07-1-S4.09-8602 ARC

[High Performance Programmable Transceiver](#) [168]

**James Cutler**

933 N California Avenue

Palo Alto, CA 94303

James Cutler (650) 776-7482

07-1-S4.09-8519 ARC

[Software-Defined Ground Stations - Enhancing Multi-Mission Support](#) [169]

**Microcosm, Inc.**

4940 W. 147th Street

Hawthorne, CA 90250

Lynn Shimohara (310) 219-2700

07-1-S4.06-9411 ARC

[Plug-and-Play Star Sensor for Rapid Spacecraft Integration](#) [170]

**Microcosm, Inc.**

4940 W. 147th Street

Hawthorne, CA 90250

Lynn Shimohara (310) 219-2700

07-1-S4.03-8760 ARC

[A Sustainable Spacecraft Component Database Solution](#) [171]

**Odyssey Space Research**

1120 NASA Parkway

Houston, TX 77058

David Strack (281) 488-7953

07-1-S4.04-8941 ARC

[Wiki-Based Data and Information Integration \(WikiDI2\) System](#) [172]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

07-1-S4.07-9076 ARC

[Pulsed Electrogasdynamic Thruster for Attitude Control and Orbit Maneuver](#) [173]

**sci\_zone**

17133 Inavale

Holland, MI 49424

Andrew Santangelo (505) 264-0095

07-1-S4.03-9166 ARC

[OpenSAT, An Open Source Based Satellite Design Data Architecture with API Design and Management Plugins](#) [174]

**Space Propulsion Group, Inc.**

760 San Aleso Avenue

Sunnyvale, CA 94085

Arif Karabeyoglu (408) 541-1481

07-1-S4.01-9017 ARC

[Nytrox Oxidizers for NanoSat Launch Vehicles](#) [175]

**Stellar Exploration, Inc.**

207 Suburban Road, Suite 3

San Luis Obispo, CA 93401

Charles Haycock (805) 543-2912

07-1-S4.07-8340 ARC

[Innovative Applications of DOD Propulsion Technology for Low-Cost Satellite Missions](#) [176]

**Stellar Exploration, Inc.**

207 Suburban Road, Suite 3

San Luis Obispo, CA 93401

Charles Haycock (805) 543-2912

07-1-S4.06-8307 ARC

[Low-Cost Suite of COTS GNC Sensors for Precision Lunar Lander](#) [177]

**Tiger Innovations, LLC**

5207 32nd St North

Arlington, VA 22207

Robert Atkin (703) 407-1236

07-1-S4.08-9172 ARC

[Automated Break-Out Box for use with Low Cost Spacecraft Integration and Test](#) [178]

**Whittinghill Aerospace, LLC**

265 Durley Avenue, Suite 208

Camarillo, CA 93010

George Whittinghill (805) 901-2297

07-1-S4.07-8526 ARC

[Effectiveness of Nitrous Oxide as a Liquid Injection Thrust Vector Control Fluid](#) [179]

• **S5 Robotic Exploration Technologies (11)**

**Advanced Scientific Concepts, Inc.**

305 E. Haley Street

Santa Barbara, CA 93101

JoAnn Stettner (805) 966-3331

07-1-S5.02-8644 JPL

[Flash 3D Planetary Entry, Descent and Landing Sensor Hardening](#) [180]

**Aerospacecomputing, Inc.**

465 Fairchild Drive, Suite 224

Mountain View, CA 94043

Hiro Kumagai (650) 988-0388

07-1-S5.02-9410 ARC

[Design and Simulation Tools for Planetary Atmospheric Entry Vehicles](#) [181]

**DMD Concepts**

5315 Turnstone Court

Rockledge, FL 32955

Russell Davis (321) 720-9707

07-1-S5.01-8588 JPL

[Chemically and Thermally Stable High Energy Density Silicone Composites](#) [182]

**Honeybee Robotics Ltd.**

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460 W 34th Street

New York, NY 10001

Chris Chapman (646) 459-7802

07-1-S5.03-9066 JPL

[SASSI: Subsystems for Automated Subsurface Sampling Instruments](#) [183]

**Honeybee Robotics Ltd.**

460 W 34th Street

New York, NY 10001

Chris Chapman (646) 459-7802

07-1-S5.03-8882 JPL

[One-Meter Class Drilling for Planetary Exploration](#) [184]

**Honeybee Robotics Ltd.**

460 W 34th Street

New York, NY 10001

Chris Chapman (646) 459-7802

07-1-S5.04-8749 JPL

[Robotic Tool Changer for Planetary Exploration](#) [185]

**inXitu, Inc.**

2551 Casey Avenue, Suite A

Mountain View, CA 94043

Scott Snyder (650) 567-0081

07-1-S5.03-8648 JPL

[Miniature Sample Collection and Delivery System using Gas-Entrained Powder Transport](#) [186]

**Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

07-1-S5.01-8349 JPL

[An Active Thermal Control System for Extreme Environments](#) [187]



**Mobile Energy Products, Inc.**

3820 S Hancock Expressway

Colorado Springs, CO 80911

Za Johnson (719) 392-4266

07-1-S5.01-9846 JPL

[High Temperature Energy Storage for In Situ Planetary Atmospheric Measurement Technologies](#) [188]

**SJT Micropower**

16411 N. Skyridge Lane

Fountain Hills, AZ 85268

Pamela DiSalvo (480) 816-8077

07-1-S5.01-9806 JPL

[Wide Temperature Range DC-DC Boost Converters for Command/Control/Drive Electronics](#) [189]

**The Manufactory, LLC**

4047 Cabinet Street

Pittsburgh, PA 15224

Stuart Heys (773) 412-3081

07-1-S5.04-8566 JPL

[Enabling Tethered Exploration on Mars](#) [190]

• **S6 Information Technologies (9)**

**Ambint**

430 Woodcock Drive

Cranberry, PA 16066

Shangcong Zeng (412) 352-0516

07-1-S6.04-8631 GSFC

[Visual Data Mining Toolbox](#) [191]

**American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Lina Greenberg (805) 582-0582

07-1-S6.06-9228 SSC

[Attribute Image Map Fused 3D Web-Objects Technology and Software Toolsets](#) [192]

**Aniuk Consulting, LLC**

7015 61st Avenue

Kenosha, WI 53142

Brian Harshburger (262) 997-2070

07-1-S6.04-8590 GSFC

[A GIS Software Toolkit for Monitoring Areal Snow Cover and Producing Daily Hydrologic Forecasts using NASA Satellite Imagery](#) [193]

**Infocitex Corporation**

303 Bear Hill Road

Waltham, MA 02451

Michelle Sansivero (781) 890-1338

07-1-S6.04-8847 GSFC

[Octet](#) [194]

**SciberQuest, Inc.**

Pacific Executive Plaza, 777 South Highway 101, Suite 108

Solana Beach, CA 92075

Homa Karimabadi (858) 793-7063

07-1-S6.02-9196 ARC

[High Interactivity Visualization Software for Large Computational Data Sets](#) [195]

**Tech-X Corporation**

5621 Arapahoe Avenue, Suite A

Boulder, CO 80303

Leslie Rosczyk (720) 974-1855

07-1-S6.05-9732 GSFC

[Remote Online Visualization Environment for Researchers](#) [196]

**Tech-X Corporation**

5621 Arapahoe Avenue, Suite A

Boulder, CO 80303

Leslie Rosczyk (720) 974-1855

07-1-S6.02-9708 ARC

[Building Blocks for the Rapid Development of Parallel Simulations](#) [197]

**Tech-X Corporation**

5621 Arapahoe Avenue, Suite A

Boulder, CO 80303

Leslie Rosczyk (720) 974-1855

07-1-S6.02-9676 ARC

[Remote Data Exploration with the Interactive Data Language](#) [198]

**Xigen, LLC**

11001 Sugarbush Terrace

Rockville, MD 20852

Jason Geng (301) 637-6828

07-1-S6.05-9973 GSFC

[A Novel Volumetric 3D Display System with Static Screen](#) [199]

• **X1 Avionics and Software (8)**

**Acellent Technologies, Inc.**

835 Stewart Drive

Sunnyvale, CA 94085

Amrita Kumar (408) 745-1188

07-1-X1.04-8403 ARC

[Quantifiable and Reliable Structural Health Management Systems](#) [200]

**Aries Design Automation, LLC**

6157 N Sheridan Road, Suite 16M

Chicago, IL 60660

Miroslav Velez (773) 856-6633

07-1-X1.02-8523 ARC

[Efficient Techniques for Formal Verification of PowerPC 750 Executables](#) [201]

**Impact Technologies, LLC**

200 Canal View Blvd.

Rochester, NY 14623

Carol Marquardt (585) 424-1990

07-1-X1.04-9851 ARC

[HyDE Enhancements for IVHM System Deployment](#) [202]

**S&K Aerospace**

63066 Old Hwy 93

St Ignatius, MT 59865

Arthur Molin (281) 480-1453

07-1-X1.01-9651 ARC

[Procedure Integrated Development Environment \(PRIDE\)](#) [203]

**Safeware Engineering Corporation**

1500 Fairview Avenue E, Suite 205

Seattle, WA 98102

Hugh Lee (206) 328-4880

07-1-X1.02-9216 ARC

[Automated Test Case Generation from Highly Reliable System Requirements Models](#) [204]

**Sienna Technologies, Inc.**

19501 144th Avenue NE, Suite F-500

Woodinville, WA 98072

Ender Savrun (425) 485-7272

07-1-X1.03-8784 LaRC

[A Reliable Electronic Package for Space Exploration](#) [205]

**Structured Materials Industries, Inc.**

201 Circle Drive No., Suite 102-103

Piscataway, NJ 08854

Gary Tompa (732) 301-9274

07-1-X1.03-8300 LaRC

[Radiation-Tolerant Reconfigurable FPGA for Digital Signal Processing Circuits](#) [206]

**Traclabs, Inc.**

8610 N. New Braunfels, Suite 110

San Antonio, TX 78217

Jonathan Fast (210) 822-2310

07-1-X1.01-9152 ARC

[Enhancing NASA's Procedure Representation Language to Support Planning Operations](#) [207]

• **X2 Sensors for Autonomous Systems (5)**

**Advanced Optical Systems, Inc.**

6767 Old Madison Pike, Suite 410

Huntsville, AL 35806

Halley Little (256) 971-0036

07-1-X2.01-9384 JSC

[Using a Bore Sight Camera as an AR&D Sensor](#) [208]

**Advanced Scientific Concepts, Inc.**

305 E. Haley Street

Santa Barbara, CA 93101

JoAnn Stettner (805) 966-3331

07-1-X2.01-8759 JSC

[Flash 3D Rendezvous and Docking Sensor](#) [209]

**Advanced Scientific Concepts, Inc.**

305 E. Haley Street

Santa Barbara, CA 93101

JoAnn Stettner (805) 966-3331

07-1-X2.02-8558 JSC

[Flash 3D Enhancements for Autonomous Precision Landing and Hazard Detection and Avoidance](#) [210]

**nLight Photonics**

5408 NE 88th Street, Building E

Vancouver, WA 98665

Dan Milewski (360) 566-4479

07-1-X2.02-8926 JSC

[High Sensitivity Indium Phosphide Based Avalanche Photodiode Focal Plane Arrays](#) [211]

**Q-Peak, Inc.**

135 South Road

Bedford, MA 01730

Peter Moulton (781) 275-9535

07-1-X2.02-8931 JSC

[Efficient 3-D Ladar Source](#) [212]

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

**Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 01821

Andrew Freedman (978) 663-9500

07-1-X3.03-9656 JPL

[Spacecraft Cabin Particulate Monitor](#) [213]

**Nanomaterials Company**

15 North Bacton Hill Road

Malvern, PA 19355

Nicholas Coppa (610) 695-0081

07-1-X3.02-8845 JSC

[Water Reclamation using Spray Drying](#) [214]

**Reactive Innovations, LLC**

410 Great Road, Suite C-2

Littleton, MA 01460

Michael Kimble (978) 952-6947

07-1-X3.01-9876 JSC

[High-Pressure Oxygen Concentrator](#) [215]

**Seldon Laboratories, LLC**

7 Everett Lane, Suite One

Windsor, VT 05089

Jonathan Wilson (802) 674-2444

07-1-X3.01-8838 JSC

[Application of a Fused Carbon Nanomaterial Filter for Lunar Dust Abatement](#) [216]

**Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505

Alan Stanton (505) 984-1322

07-1-X3.04-9437 GRC

[Mirage Fire Sensor for Spacecraft](#) [217]

**UMPQUA Research Company**

PO Box 609

Myrtle Creek, OR 97457

John Aker (541) 863-2655

07-1-X3.02-9715 JSC

[Nonhazardous Urine Pretreatment Method for Future Exploration Systems](#) [218]

**Vista Photonics, Inc.**

67 Condesa Road

Santa Fe, NM 87508

Jeffrey Pilgrim (505) 466-3953

07-1-X3.04-9258 GRC

[Advanced Fire Detector for Space Applications](#) [219]

- **X4 Extra Vehicular Activity (EVA) (7)**

**Air-Lock, Inc.**

Wampus Lane

Milford, CT 06460

Michael McCarthy (203) 878-4691

07-1-X4.01-9834 JSC

[Hard Upper Torso Shoulder Joint Design for Crew Member Sizing Adjustment and Enhanced Mobility](#) [220]

**Luminit, LLC**

20600 Gramercy Place, Suite 203

Torrance, CA 90501

Linh Whitaker (310) 320-1066

07-1-X4.03-9536 GRC

[Holographic Waveguided See-Through Display](#) [221]

**Lynntech, Inc.**

7610 Eastmark Drive

College Station, TX 77840

Cynthia Barnett (979) 693-0017

07-1-X4.02-8991 JSC

[Compact, Lightweight, Efficient Cooling Pump for Space Suit Life Support Systems](#) [222]

**Paragon Space Development Corporation**

3481 E. Michigan Street

Tucson, AZ 85714

Carole Hammond (520) 903-1000

07-1-X4.02-9360 JSC

[Metabolic Heat Regenerated Temperature Swing Adsorption for CO<sub>2</sub> Thermal and Humidity Control](#) [223]

**Paragon Space Development Corporation**

3481 E. Michigan Street

Tucson, AZ 85714

Carole Hammond (520) 903-1000



07-1-X4.02-9353 JSC

[A Super Cooled, Non-toxic, Non-flammable Phase Change Material Thermal Pack for Portable Life Support Systems](#) [224]

**Vista Photonics, Inc.**

67 Condesa Road

Santa Fe, NM 87508

Jeffrey Pilgrim (505) 466-3830

07-1-X4.03-9910 GRC

[Compact Optical Carbon Dioxide Monitor for EVA](#) [225]

**ZIN Technologies, Inc.**

6745 Engle Road

Middleburg Hts, OH 44130

Gradmon Boling (440) 625-2279

07-1-X4.03-9275 GRC

[Spacesuit Sensing Data Display and Management System](#) [226]

• **X5 Lunar In-Situ Resource Utilization (ISRU) (6)**

**Adherent Technologies, Inc.**

9621 Camino del Sol NE

Albuquerque, NM 87111

Susan Switzer (505) 346-1685

07-1-X5.02-8801 JPL

[Lunar Regolith Stabilization for Excavation](#) [227]

**Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

Jon Zuo (717) 295-6058

07-1-X5.01-8867 GRC

[Heat Pipe Solar Receiver for Oxygen Production of Lunar Regolith](#) [228]

**Grainflow Dynamics, Inc.**

1141 Catalina Drive, PMB #270

Livermore, CA 94550

Otis Walton (925) 447-4293

07-1-X5.02-8417 GRC

[High Fidelity Regolith Simulation Tool for ISRU Applications](#) [229]

**Pioneer Astronautics**

11111 W. 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 980-0890

07-1-X5.01-9825 JSC

[Multi-Cell Thermal Battery](#) [230]

**Pioneer Astronautics**

11111 W. 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 980-0890

07-1-X5.01-9824 KSC

[Lunar Sulfur Capture System](#) [231]

**Starsys, Inc.**

1722 Boxelder Street

Louisville, CO 80027

Bryan Helgesen (303) 530-1925

07-1-X5.03-9447 JSC

[Sealing Technologies for Repetitive Use in Abrasive, Electrostatic, High Vacuum Environments](#) [232]

• **X6 Structures, Materials and Mechanisms (6)**

**Adherent Technologies, Inc.**

9621 Camino del Sol NE

Albuquerque, NM 87111

Susan Switzer (505) 346-1685

07-1-X6.01-9530 MSFC

[Self-Healing Inflatable, Rigidizable Shelter for the Lunar Environment](#) [233]

**Aspen Aerogels, Inc.**

30 Forbes Road

Northborough, MA 01532

Kevin Schmidt (508) 691-1161

07-1-X6.01-8728 GRC

[Multifunctional Flexible Aerogels for Inflatable Habitats](#) [234]

**Dynamic Structures and Materials, LLC**

205 Williamson Square

Franklin, TN 37064

Murray Johns (615) 595-6665

07-1-X6.02-8294 GSFC

[Cryogenic Rotary Piezoelectric Motor](#) [235]

**International Scientific Technologies, Inc.**

P.O. Box 757

Dublin, VA 24084

Wanda Gibson (540) 633-1424

07-1-X6.03-8786 LaRC

[Hydrogen-Rich, Multifunctional Polymeric Nanocomposites for Radiation Shielding](#) [236]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

07-1-X6.03-8797 LaRC

[Long Duration Space Shelter Shielding](#) [237]

**San Diego Composites, Inc.**

9550 Ridgehaven Court, Suite A

San Diego, CA 92123

Gary Wonacott (858) 751-0450

07-1-X6.04-8594 LaRC

[Double Bag VARTM for High Temperature Composites](#) [238]

- **X7 Lunar Operations (6)**

- **Honeybee Robotics Ltd.**

- 460 W 34th Street

- New York, NY 10001

- Chris Chapman (646) 459-7802

- 07-1-X7.04-9485 GRC

- [Surface System Dust Mitigation](#) [239]

- **Honeybee Robotics Ltd.**

- 460 W 34th Street

- New York, NY 10001

- Chris Chapman (646) 459-7802

- 07-1-X7.03-8844 ARC

- [A 3-D Miniature LIDAR System for Mobile Robot Navigation](#) [240]

- **New Span Opto-Technology, Inc.**

- 16115 SW 117th Avenue, A-15

- Miami, FL 33177

- Michael Wang (305) 321-5288

- 07-1-X7.03-8868 JSC

- [Foveated 3-D Imaging Rangefinder for Object Tracking](#) [241]

- **Orbital Technologies Corporation**

- Space Center, 1212 Fourier Drive

- Madison, WI 53717

- Eric Rice (608) 229-2730

07-1-X7.04-9706 GRC

[High-Fidelity Lunar Dust Simulant](#) [242]

**Rapid Imaging Software, Inc.**

1318 Ridgecrest Place SE

Albuquerque, NM 87108

Mike Abernathy (505) 265-7020

07-1-X7.02-9718 JSC

[Advanced Situation Awareness Technologies](#) [243]

**Tietronix Software, Inc.**

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Victor Tang (281) 404-7222

07-1-X7.02-8660 JSC

[Model-Based Resource and Mode Management for Lunar Surface Operations](#) [244]

• **X8 Energy Generation and Storage (8)**

**ElectroChem, Inc.**

400 West Cummings Park

Woburn, MA 01801

Jeremy Bernier (781) 938-5300

07-1-X8.01-9374 GRC

[Advanced Approaches to Greatly Reduce Hydrogen Gas Crossover Losses in PEM Electrolyzers Operating at High Pressures and Low Current Densities](#) [245]

**Giner Electrochemical Systems, LLC**

89 Rumford Avenue

Newton, MA 02466

Anthony Vaccaro (781) 529-0504

07-1-X8.01-9791 GRC

[Electrolyzer for NASA Lunar Regenerative Fuel Cells](#) [246]

**Giner Electrochemical Systems, LLC**

89 Rumford Avenue

Newton, MA 02466

Anthony Vaccaro (781) 529-0504

07-1-X8.01-9737 GRC

[Dimensionally Stable Membrane for High Pressure Electrolyzers](#) [247]

**Payload Systems, Inc.**

247 Third Street

Cambridge, MA 02142

Scott Hart (617) 868-8086

07-1-X8.03-9658 GRC

[Autonomous Control of Space Nuclear Reactors](#) [248]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

07-1-X8.02-9077 GRC

[Inorganic Polymer Nanocomposite Cathode for Long Cycle Life Lithium - Sulfur Batteries](#) [249]

**TIAX, LLC**

15 Acorn Park

Cambridge, MA 02140

Renee Wong (617) 498-5655

07-1-X8.02-9277 GRC

[Novel Anodes for Rapid Recharge High Energy Density Lithium-ion Batteries](#) [250]

**Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

07-1-X8.03-8499 GRC

[High Efficiency, High Temperature Foam Core Heat Exchanger for Fission Surface Power Systems](#) [251]

**Yardney Technical Products, Inc.**

82 Mechanic Street

Pawcatuck, CT 06379

Vince Yevoli (860) 599-1100

07-1-X8.02-8761 GRC

[High Capacity Nano-Composite Cathodes for Human-Rated Lithium-Ion Batteries](#) [252]

• **X9 Propulsion and Cryogenic Systems (6)**

**Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

James Barry (604) 640-2487

07-1-X9.01-9829 GRC

[Advanced, Long-Life Cryocooler Technology for Zero-Boil-Off Cryogen Storage](#) [253]

**Firestar Engineering, LLC**

557 Burbank Street, Unit J

Broomfield, CO 80020

Greg Mungas (303) 439-2698

07-1-X9.03-9640 JSC

[Nitrous Oxide Fuel Blend-Continuous Operation Lunar Thruster \(NOFB-COLT\)](#) [254]

**Orion Propulsion, Inc.**

105 A-4 Commerce Circle

Madison, AL 35758

Jennifer Lewter (256) 461-8032

07-1-X9.03-8678 MSFC

[Acoustic Igniter](#) [255]

**Plasma Processes, Inc.**

4914 Moores Mill Road

Huntsville, AL 35811

Angela Hattaway (256) 851-7653

07-1-X9.04-9517 MSFC

[Lightweight Exit Cone for Liquid Rocket Engines](#) [256]

**Sierra Lobo, Inc.**

426 Croghan Street

Fremont, OH 43420

George Saturnino (419) 332-7101

07-1-X9.01-9022 GRC

[Advanced Insulation Techniques for Cryogenic Tanks](#) [257]

**SPACEDEV**

13855 Stowe Drive

Poway, CA 92064

Dave McNeely (858) 375-2063

07-1-X9.04-8618 MSFC

[Annular Hybrid Rocket Motor](#) [258]

• **X10 Protection Systems (1)**

**Touchstone Research Laboratory, Ltd.**

The Millenium Centre, RR 1, Box 100B

Triadelphia, WV 26059

Janet Joseph (304) 547-5800

07-1-X10.01-9681 ARC

[Infiltration of Carbon Foam for Mid-Density Ablative Thermal Protection Systems](#) [259]

• **X11 Thermal Management (4)**

**Advanced Cooling Technologies, Inc.**



1046 New Holland Avenue

Lancaster, PA 17601

Jon Zuo (717) 295-6058

07-1-X11.01-8478 JSC

[VCHP Radiators for Lunar and Martian Environments](#) [260]

**Eltron Research & Development, Inc.**

4600 Nautilus Court South

Boulder, CO 80301

James Beck (303) 530-0263

07-1-X11.01-8439 JSC

[Efficient Space Hardy Thermoelectric Materials with Broad Temperature Range](#) [261]

**Energy Science Laboratories, Inc.**

6888 Nancy Ridge Drive

San Diego, CA 92121

Timothy Knowles (858) 552-2034

07-1-X11.01-8908 JSC

[Lightweight Thermal Storage Heat Exchangers](#) [262]

**Illuminex Corporation**

1064 New Holland Avenue

Lancaster, PA 17601

Youssef Habib (717) 295-3746

07-1-X11.01-9722 JSC

[High Performance Low Mass Nanowire Enabled Heatpipe](#) [263]

• **X12 Exploration Crew Health Capabilities (4)**

**Linea Research Corporation**

781 Rosewood Drive

Palo Alto, CA 94303

Soenkyung Pak (650) 325-9000

07-1-X12.01-9535 JSC

[Wearable Beat to Beat Blood Pressure Monitor](#) [264]

**Operational Technologies Corporation**

4100 N.W. Loop 410

San Antonio, TX 78229

Judson Miner (210) 731-0015

07-1-X12.01-9625 JSC

[Handheld FRET-Aptamer Sensor for Bone Markers](#) [265]

**The DNA Medicine Institute**

116 Charles Street, Suite 6

Boston, MA 02114

Eugene Chan (617) 233-7656

07-1-X12.03-8958 GRC

[Reusable Handheld Electrolytes and Lab Technology for Humans \(rHEALTH Sensor\)](#) [266]

**Valeo Human Performance, LLC**

1235 Clear Lake City Blvd., Suite F

Houston, TX 77062

Paul Colosky (281) 488-5877

07-1-X12.02-9208 JSC

[The Constant Force Resistive Exercise Unit \(CFREU\) for Multi-Functional Exercise](#) [267]

• **X13 Space Human Factors and Food Systems (5)**

**Design Interactive, Inc.**

1221 E. Broadway, Suite 110

Oviedo, FL 32765

John Stanney (407) 706-0977

07-1-X13.01-8449 JSC

[CogGauge](#) [268]

**Materials Modification, Inc.**

2721-D Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

07-1-X13.02-8489 JSC

[Novel Biodegradable Food Packaging Material](#) [269]

**NTI, Inc.**

1 1/2 S. Central Avenue

Fairborn, OH 45324

Beth Barker (937) 879-0612

07-1-X13.01-9560 JSC

[Integrated Cognitive Assessment: Combining Measurement, System, and Mission](#) [270]

**PROVE IT, LLC**

14514 Creek Crossing Drive

Orland Park, IL 60467

George Sadler (708) 441-9781

07-1-X13.02-9217 JSC

[Dual Use Packaging](#) [271]

**Tietronix Software, Inc.**

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Victor Tang (281) 461-9300

07-1-X13.01-9164 JSC

[Handheld CAT Video Game](#) [272]

• **X14 Space Radiation (3)**

**Merril Corporation of Utah, dba MSI Photogenics**

P.O. Box 511283

Salt Lake City, UT 84151

David Merrill (801) 773-7900

07-1-X14.03-8416 ARC

[Spectroscopic Dosimeter](#) [273]

**Nano EnerTex**

4131 Grennoch Lane

Houston, TX 77025

Laura Ignatiev (713) 667-9558

07-1-X14.01-9532 JSC

[A Medipix-Based Small Personal Space Radiation Dosimeter](#) [274]

**Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 02472

Nancy Marshall (617) 668-6810

07-1-X14.03-9491 ARC

[CMOS-Based Neutron Spectroscopic Dosimeter \(CNSD\)](#) [275]

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