



## Proposals Selected for Negotiation of Contracts

Expand All

- **Alabama (13)**

- **CFD Research Corporation**

- 701 McMillian Way Northwest, Suite D

- Huntsville, AL 35806

- Silvia Harvey (256) 726-4858

- 15-1-Z1.01-9821 GRC

- [Thermodynamically Consistent Electrochemical Models for Accelerating Development and Qualification of Power Generation and Storage Systems](#) [1]

- **CFD Research Corporation**

- 701 McMillian Way Northwest, Suite D

- Huntsville, AL 35806

- Silvia Harvey (256) 726-4858

- 15-1-H5.01-9816 LaRC

- [Lightweight Inflatable Structural Airlock \(LISA\)](#) [2]

- **CFD Research Corporation**

- 701 McMillian Way Northwest, Suite D

- Huntsville, AL 35806

- Silvia Harvey (256) 726-4858

- 15-1-A1.07-9813 GRC

- [Variable Fidelity AeroPropulsoServoElasticity Analysis Tool](#) [3]

- **Dynsan, LLC**

- 8000 Madison Boulevard, Suite D102 PMB303

- Madison, AL 35758

- Maciej Z. Pindera (256) 468-6458

15-1-S3.04-9554 GSFC

[Optimization Of Fuel Consumption Using Atmospheric Vertical Air Currents](#) [4]

**GATR Technologies**

11506 Gilleland Road

Huntsville, AL 35803

Janette Rawls (256) 704-5611

15-1-S1.02-9271 JPL

[Cubesat Collapsible Composite Antenna](#) [5]

**KT Engineering Corporation**

238 Business Park Boulevard, Building 23B Suite J

Madison, AL 35758

Richard Webb (256) 461-8522

15-1-H2.01-8863 GRC

[In-Space LOX/Methane Pintle Propulsion Engine \(LMPPE\) Evaluation and Demonstration](#) [6]

**Plasma Processes, LLC**

4914 Moores Mill Road

Huntsville, AL 35811

Angela Hattaway (256) 851-7653

15-1-H5.02-9227 MSFC

[Metallic Joining to Advanced Ceramic Composites](#) [7]

**Plasma Processes, LLC**

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

15-1-H2.02-9101 MSFC

[Advanced Zirconium Carbide Tie-Tubes for NTP](#) [8]

**Plasma Processes, LLC**

4914 Moores Mill Road

Huntsville, AL 35811

Angela Hattaway (256) 851-7653

15-1-H2.01-9267 GRC

[Thermo-Catalytic Ignition of Cryogenic Oxygen-Methane](#) [9]

**Research in Flight**

1919 N Ash Court

Auburn, AL 36830

Roy Hartfield (334) 444-8523

15-1-A1.05-8776 GRC

[Advanced Aerodynamic Analysis For Propulsion Airframe Integration](#) [10]

**Space Resources Extraction Technology**

3708 Nolen Avenue Southeast

Huntsville, AL 35801

Edwin Ethridge (256) 520-4242

15-1-H1.01-9984 JSC

[Microwave Extraction of Water from Boreholes in Regolith](#) [11]

**SPIRITUS, INC**

1011 Coronado Ave SE

HUNTSVILLE, AL 35802

Shaneva McReynolds (256) 539-8018

15-1-S5.03-9352 GSFC

[SparkRS - Spark for Remote Sensing](#) [12]

**Torch Technologies, Incorporated**

4035 Chris Drive

Huntsville , AL 35802

Kenneth Lones (256) 319-6019

15-1-S3.08-9572 MSFC

[Slow and Fast Light](#) [13]

• **Arizona (9)**

**AdValue Photonics, Inc.**

3440 East Britannia Drive, Suite 190

Tucson, AZ 85706

Shibin Jiang (520) 790-5468

15-1-S1.01-8973 LaRC

[Radiation-Hardened 1.55 Micron Fiber Laser for Coherent LIDAR](#) [14]

**AdValue Photonics, Inc.**

3440 East Britannia Drive, Suite 190

Tucson, AZ 85706

Shibin Jiang (520) 790-5468

15-1-S1.01-8972 LaRC

[Highly Efficient 2 Micron Wavelength Fiber Laser](#) [15]

**Alphacore, Inc.**

1616 East Main Street, Suite 221

Tucson, AZ 85203

Esko Mikkola (520) 647-4445

15-1-S1.02-8978 JPL

[Radiation-Hard Ka-Band Power Amplifier for CubeSats](#) [16]

**Amsen Technologies, LLC**

1684 South Research Loop, Suite 518

Tucson, AZ 85710

Hongxing Hu (520) 546-6944

15-1-H10.01-8895 SSC

[Helium Recovery System Based on High-Performance Proton Exchange Membranes](#) [17]

**Apre Instruments, LLC**

2440 West Ruthrauff Road, Suite 100

Tucson, AZ 85745

Robert Smythe (860) 398-5764

15-1-S2.04-9249 GSFC

[Low Coherence, Spectrally Modulated, Spherical Wavefront Probe for Nanometer Level Free-Form Metrology](#) [18]

**Lenzner Research, LLC**

125 East Canyon View Drive

Tucson, AZ 85704

Matthias Lenzner (347) 301-5402

15-1-S3.08-9443 MSFC

[Study of Sensitivity Enhancement and Dead Band Elimination in Laser Gyros](#) [19]

**Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Carole Leon (520) 382-4814

15-1-H2.04-9337 GRC

[Fabric, Inflated, Insulating Shroud for Cryogenic In-Space Transportation](#) [20]

**S. D. Miller and Associates, PLLC**

216 West Cherry Avenue, Building 2

Flagstaff, AZ 86001

Stephen Miller (928) 779-5000

15-1-H5.02-9569 MSFC

[Enabling Technology for Thermal Protection on HIAD and Other Hypersonic Missions](#) [21]

**STARA Technologies, Inc.**

1620 West Sunrise Boulevard

Gilbert, AZ 85233

Thomas Glenn (480) 850-1555

15-1-S3.04-9800 GSFC

[Precision Guided Parafoil System For Sounding Rocket Recovery](#) [22]

• **Arkansas (3)**

**Arkansas Power Electronics International, Inc.**

535 West Research Center Boulevard

Fayetteville, AR 72701

Sharmila Mounce (479) 443-5759

15-1-H2.02-9359 MSFC

[Extreme Temperature Radiation Tolerant Instrumentation for Nuclear Thermal Propulsion Engines](#) [23]

**Ozark Integrated Circuits, Inc.**

700 West Research Center Boulevard

Fayetteville, AR 72701

Anthony Francis (479) 575-1600

15-1-S1.04-9563 GSFC

[Highly Scalable SiC UV Imager for Earth & Planetary Science](#) [24]

**Ozark Integrated Circuits, Inc.**

700 West Research Center Boulevard

Fayetteville, AR 72701

Anthony Francis (479) 575-1600

15-1-S1.06-9561 JPL

[A SiC-based Microcontroller for High-Temperature In-Situ Instruments and Systems](#) [25]

• **California (71)**

**Advanced Scientific Concepts, LLC**

135 East Ortega Street

Santa Barbara, CA 93101

JoAnn Stettner (805) 966-3331

15-1-A3.02-8745 ARC

[3D Flash LIDAR All Weather Safety](#) [26]

**Advanced Scientific Concepts, LLC**

135 East Ortega Street

Santa Barbara, CA 93101

JoAnn Stettner (805) 966-3331

15-1-S4.01-8929 JPL

[3D Flash LIDAR Megapixel High Speed Array](#) [27]

**Advanced Systems & Technologies, Inc.**

12 Mauchly, Building H

Irvine, CA 92618

Vladimir Markov (949) 733-3355

15-1-H13.02-8935 LaRC

[Reconfigurable Optical Velocimeter for Autonomous Structural Inspection in Space \(ROVASIS\)](#) [28]

**Advanced Systems & Technologies, Inc.**

12 Mauchly, Building H

Irvine, CA 92618

Vladimir Markov (949) 733-3355

15-1-A1.04-9214 LaRC

[Interferometric Correlator for Acoustic Radiation & Underlying Structural Vibration \(ICARUSV\)](#) [29]

**Aerosol Dynamics Inc.**

935 Grayson Street

Berkeley, CA 94710

Susanne Hering (510) 649-9360

15-1-H3.01-8848 JPL

[An Airborne Particulate Monitor for Spacecraft](#) [30]

**American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

15-1-H6.01-8753 JSC

[Real-Time Integrated Navigation System for Planetary Exploration \(RT-INSPEX\)](#) [31]

**Angstrom Designs, Inc.**

P.O. Box 2032

Santa Barbara, CA 93120

Timothy Halsey (805) 284-4535

15-1-H5.01-9640 LaRC

[Compact Telescoping Array Design and Development](#) [32]

**AOSense, Inc.**

929 E Arques Ave

Sunnyvale, CA 94085

Brenton Young (408) 735-9500

15-1-S1.09-8809 JPL

[Stabilized Portable External Cavity Laser \(SPECL\)](#) [33]

**Applied Poleramic, Inc.**

6166 Egret Court

Benicia, CA 94510

Doyle Dixon (707) 747-6738

15-1-H11.01-9861 LaRC

[Multifunctional Structural Composites for Radiation Shielding](#) [34]

**Applied Poleramic, Inc.**

6166 Egret Court

Benicia, CA 94510

Doyle Dixon (707) 747-6738

15-1-Z2.01-9669 MSFC

[Infusion Resins for Automated Dry Fiber Placement Products](#) [35]

**ATA Engineering, Inc.**

13290 Evening Creek Drive South, Suite 250

San Diego, CA 92128

Joshua Davis (858) 480-2028

15-1-H5.01-9790 LaRC

[Active Gravity Offloading System for Deployable Solar Array Structures](#) [36]

**ATAC**

2770 De La Cruz Boulevard



Santa Clara, CA 95050

Charles Winkleman (408) 736-2822

15-1-A3.03-8942 ARC

[Big Data Driven Architecture for Real Time Systemwide Safety Assurance](#) [37]

**Biospherical Instruments, Inc.**

5340 Riley Street

San Diego, CA 92110

John Morrow (619) 686-1888

15-1-S1.07-8995 GSFC

[14-Decades Calibration in Airborne Detectors for Environmental Science \(14DeCADES\)](#) [38]

**Creative Aero Engineering Solutions**

6285 East Spring Street, #304N

Long Beach, CA 90808

Alan Arslan (562) 443-7566

15-1-A1.04-9178 LaRC

[Adjoint Techniques and Acoustic Three Zone Method for the Accurate Design of Low Boom Maneuvers \(ATAZM-DLBM\)](#) [39]

**Empirical Systems Aerospace, Inc.**

P.O. Box 595

Pismo Beach, CA 93448

Andrew Gibson (805) 275-1053

15-1-A1.03-9122 GRC

[Cryogenic and Non-Cryogenic Hybrid Electric Distributed Propulsion with Integration of Airframe and Thermal Systems to Analyze Technology Influence](#) [40]

**EOTRON, LLC**

3516 Seagate Way, Suite 140

Oceanside, CA 92056

Gerald Kim (760) 707-6955

15-1-S3.07-9949 GSFC

[Silicon Cold Plate for CubeSat/SmallSat Thermal Control](#) [41]

**Flight Works, Inc.**

17905 Sky Park Circle, Suite F

Irvine, CA 92614

Eric Besnard (949) 387-9552

15-1-S3.02-9803 GRC

[Micropump for MON-25/MMH Propulsion and Attitude Control](#) [42]

**Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

15-1-S3.05-8747 GSFC

[Compact Ultrasensitive Erbium-doped Waveguide Optical Gyros](#) [43]

**Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

15-1-A2.01-8933 AFRC

[Integrated Optical Engine for Rugged, Compact, Inexpensive Airborne Fiber Sensor Interrogators](#) [44]

**Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

15-1-A2.01-8787 AFRC

[Rugged, Compact, and Inexpensive Airborne Fiber Sensor Interrogator Based on a Monolithic Tunable Laser](#) [45]

**G. A. Tyler Associates, Inc dba the Optical Sciences Company**

1341 South Sunkist Street

Anaheim, CA 92806

Glenn Tyler (714) 772-7668

15-1-H9.01-9298 JPL

[NASA Laser Communications with Adaptive Optics and Linear Mode Photon Counting](#) [46]

**Grainflow Dynamics, Inc.**

1141 Catalina Drive, PMB 270

Livermore, CA 94550

Otis Walton (925) 447-4293

15-1-H1.01-9564 JSC

[Small Body Regolith Extraction System](#) [47]

**Human Automation Teaming Solutions, Inc.**

18645 Sherman Way, Suite 215

RESEDA, CA 91335

Vicky Ho (818) 697-5283

15-1-A2.02-9371 AFRC

[Human Automation Teaming Testbed for Multi-UAS Management \(M-HATT\)](#) [48]

**ICS Associates, Inc.**

11404 Camaloa Avenue

Lake View Terrace, CA 91342

Joel Sercel (818) 422-0514

15-1-H1.01-9278 JSC

[Demonstration of "Optical Mining" For Excavation of Asteroids and Production of Mission Consumables](#) [49]

**Innoflight, Inc.**

9985 Pacific Heights Boulevard, Suite 250

San Diego, CA 92121

David Andaleon (858) 638-1580

15-1-H4.03-9399 JSC

[Compact Wireless EVA Communications System \(CWECS\)](#) [50]

**Innoflight, Inc.**

9985 Pacific Heights Boulevard, Suite 250

San Diego, CA 92121

David Andaleon (858) 638-1580

15-1-S3.09-9398 GSFC

[Software Redundancy Framework for COTS SoC FPGAs](#) [51]

**Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

15-1-S3.07-9570 GSFC

[Modified Ionic Liquids for Thermal Properties in CubeSats](#) [52]

**Intelligent Fiber Optic Systems Corporation**

2363 Calle Del Mundo

Santa Clara, CA 95054

Behzad Moslehi (408) 565-9004

15-1-S3.05-9717 GSFC

[Innovative Fiber-Optic Gyroscopes \(FOGs\) for High Accuracy Space Applications](#) [53]

**Iris Technology Corporation**

P.O. Box 5838

Irvine, CA 92616

Mitul Jambusaria (949) 975-8410

15-1-S1.10-9837 GSFC

[CubeSat Cryocooler System \(CCS\)](#) [54]

**Irvine Sensors Corporation**

3001 Red Hill Avenue, B3-108

Costa Mesa, CA 92626

Daryl Smetana (714) 444-8760

15-1-S4.01-9473 JPL

[High Resolution, High Sensitivity LIDAR for Robotic Space Operation Support](#) [55]

**KWJ Engineering, Inc**

8430 Central Avenue, Suite 2D

Newark, CA 94560

Melvin Findlay (510) 405-5911

15-1-H10.01-8807 SSC

[MEMS Sensor Arrays for Cryogenic Propellant Applications](#) [56]

**LaunchPoint Technologies, Inc.**

5735 Hollister Avenue, Suite B

Goleta, CA 93117

Vicki Young (805) 683-9659

15-1-A1.06-9338 ARC

[Non-Contact Magnetic Transmission For Hybrid/Electric Rotorcraft](#) [57]

**Leiden Measurement Technology, LLC**

751 Laurel St #344

San Carlos, CA 94087

Richard Quinn (650) 691-8573

15-1-S1.08-8855 ARC

[Novel Microfluidic Advances Enabling Autonomous, Long-Duration, Analysis of Nitrite/Nitrate](#) [58]

**Leiden Measurement Technology, LLC**

751 Laurel St #344

San Carlos, CA 94087

Richard Quinn (650) 691-8573

15-1-H3.01-8900 JPL

[Microchip Capillary Electrophoresis for In Situ Water Analysis](#) [59]

**Luminit, LLC**

1850 West 205 Street

Torrance, CA 90501

Emmanuel Gorce (310) 320-1066

15-1-S1.08-9925 ARC

[Multi Wavelength Greenhouse gas LIDAR \(MUGGLE\)](#) [60]

**Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

15-1-H10.01-8857 SSC

[Multi-Species Chemical Microsensor For Real Time Cryogenic Purge Line Monitoring](#) [61]

**MetroLaser, Inc.**

22941 Mill Creek Drive

Laguna Hills, CA 92653

Cecil Hess (949) 553-0688

15-1-H7.02-9691 ARC

[Short Pulsed Laser Methods for Velocimetry and Thermometry in High Enthalpy Facilities](#) [62]

**Microcosm, Inc.**

4940 West 147th Street

Hawthorne, CA 90250

Chris Maruyama (310) 219-2700

15-1-S4.03-9958 JPL

[Single-Stage, Gelled Hydrazine System for Mars Ascent Vehicle Propulsion](#) [63]

**Mindrum Precision, Inc.**

10000 4th Street

Rancho Cucamonga, CA 91730

Adam Pohl (909) 989-1728

15-1-S2.04-9666 GSFC

[Precollimator Manufacturing for X-ray Telescopes](#) [64]

**Motiv Space Systems, Inc.**

350 North Halstead Street

Pasadena, CA 91107

Tom McCarthy (626) 389-5783

15-1-S4.04-9151 JPL

[Dual Axis Controller for Extreme Environments](#) [65]

**Optimal Synthesis, Inc.**

95 First Street, Suite 240

Los Altos, CA 94022

Victor Cheng (650) 559-8585

15-1-A3.01-8953 ARC

[Airport Gate Activity Monitoring Tool Suite for Improved Turnaround Prediction](#) [66]

**Optimal Synthesis, Inc.**

95 First Street, Suite 240

Los Altos, CA 94022

Victor Cheng (650) 559-8585

15-1-A3.02-8950 ARC

[Generic FMS Platform for Evaluation of Autonomous Trajectory-Based Operation Concepts](#) [67]

**Optimal Synthesis, Inc.**

95 First Street, Suite 240

Los Altos, CA 94022

Victor Cheng (650) 559-8585

15-1-A3.02-8949 ARC

[Autonomous Airport Operations for Safe and Efficient Use of Airports](#) [68]

**Optimal Synthesis, Inc.**

95 First Street, Suite 240

Los Altos, CA 94022

P. K. Menon (650) 559-8585

15-1-A2.02-8604 AFRC

[Onboard Model Checking for Small Scale Unmanned Aerial Vehicle Autopilots](#) [69]

**Opto-Knowledge Systems, Inc. (OKSI)**

19805 Hamilton Avenue

Torrance, CA 90502

Nahum Gat (310) 756-0520

15-1-A2.02-9786 AFRC

[Command and Control Software for Single-Operator Multiple UAS Missions](#) [70]

**Opto-Knowledge Systems, Inc. (OKSI)**

19805 Hamilton Avenue

Torrance, CA 90502

Nahum Gat (310) 756-0520

15-1-H7.01-9767 ARC

[Heat Shield Recession Measurements Using Remote Spectral Sensors](#) [71]

**Parabilis Space Technologies, Inc.**

1145 Linda Vista Drive

San Marcos, CA 92078

Richard Slansky (855) 727-2245

15-1-H2.01-9296 GRC

[Additively Manufactured Monolithic LOx/Methane Vortex RCS Thruster](#) [72]

**Photon Systems, Inc.**

1512 Industrial Park Street

Covina, CA 91722

Ray Reid (626) 967-6431

15-1-S4.05-9450 JPL

[Development of Non-Contact Trace Contamination Detection Methods and Instrumentation for Spacecraft Cleaning Validation Using Deep UV Chemical Imaging](#) [73]

**Physical Optics Corporation**

1845 West 205th Street

Torrance, CA 90501

Gordon Drew (310) 320-3088

15-1-H13.02-9289 LaRC

[Microwave Inspection Nondestructive Imaging Array](#) [74]

**Physical Optics Corporation**

1845 West 205th Street

Torrance, CA 90501

Gordon Drew (310) 320-3088

15-1-S1.09-9462 JPL



[Miniature Optical Isolator](#) [75]

**Physical Optics Corporation**

1845 West 205th Street

Torrance, CA 90501

Gordon Drew (310) 320-3088

15-1-H7.01-9025 ARC

[Embedded Multifunctional Optical Sensor System](#) [76]

**Physical Optics Corporation**

1845 West 205th Street

Torrance, CA 90501

Gordon Drew (310) 320-3088

15-1-H6.01-9902 JSC

[Robotic Autonomous Navigation and Orientation Tracking System](#) [77]

**Polaronyx, Inc.**

2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

15-1-H9.01-9619 JPL

[100W High Efficiency 1550 nm Pulsed Fiber Laser](#) [78]

**San Diego Composites, Inc.**

9220 Activity Road

San Diego, CA 92126

Adrian Romanyszyn (858) 751-0450

15-1-H5.01-8614 LaRC

[Advanced Composite Truss \(ACT\) Printing for Large Solar Array Structures](#) [79]

**Somatis Sensor Solutions**

411 South Hewitt Street

Los Angeles, CA 90013

Nicholas Wettels (213) 477-0710

15-1-S4.02-9372 JPL

[Industrial Electrostatic-Gecko Gripper](#) [80]

**Space Micro, Inc.**

10237 Flanders Court

San Diego, CA 92121

David Strobel (858) 332-0700

15-1-Z4.01-9798 ARC

[Radiation Tolerant Integrated Attitude Determination and Control \(uADCS\) System](#) [81]

**Spectabit Optics, LLC**

22941 Mill Creek Drive

Laguna Hills, CA 92653

Benjamin Buckner (714) 757-4187

15-1-A2.01-8721 AFRC

[Self-Nulling Schlieren Imaging for Aircraft in Flight](#) [82]

**Spectabit Optics, LLC**

22941 Mill Creek Drive

Laguna Hills, CA 92653

Benjamin Buckner (714) 757-4187

15-1-H7.02-9142 ARC

[Digital Focusing Schlieren for Hypervelocity Ground Testing](#) [83]

**Swift Engineering, Inc.**

1141 Via Callejon

San Clemente, CA 92673

Jonathan Faiella (949) 492-6608

15-1-H6.01-9381 JSC

[Surround Visual & Sensory Feedback for Robotic Arm Pilots](#) [84]

**The Peregrine Falcon Corporation**

1051 Serpentine Lane, Suite 100

Pleasanton, CA 94566

Robert Hardesty (925) 461-6800

15-1-H8.01-8946 GRC

[Pulsating Heat Pipes](#) [85]

**Transition45 Technologies, Inc.**

1739 North Case Street

Orange, CA 92865

Edward Chen (714) 283-2118

15-1-H2.03-9179 GRC

[Rapid Manufacturing of High Power Electric Propulsion Components](#) [86]

**Transition45 Technologies, Inc.**

1739 North Case Street

Orange, CA 92865

Edward Chen (714) 283-2118

15-1-A1.04-9175 LaRC

[Shape Memory Alloy Adaptive Structures](#) [87]

**Transition45 Technologies, Inc.**

1739 North Case Street

Orange, CA 92865

Edward Chen (714) 283-2118

15-1-H2.01-9172 GRC

[Bulk Nano-structured Materials for Turbomachinery Components](#) [88]

**Trex Enterprises Corporation**

10455 Pacific Center Court

San Diego, CA 92121

Deborah Doyle (858) 646-5462

15-1-S2.03-9297 MSFC

[Diffusion Bonded CVC SiC for Large UVOIR Telescope Mirrors and Structures](#) [89]

**Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

15-1-S3.02-8908 GRC

[Green Monopropellant Secondary Payload Propulsion System](#) [90]

**Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

15-1-H2.01-8906 GRC

[Low-Cost, Lightweight Transpiration-Cooled LOX/CH4 Engine](#) [91]

**Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

15-1-S3.02-8905 GRC

[Low-Cost, Lightweight, High-Performance CMC Combustion Chamber for HAN-Based Monopropellant Engines](#) [92]

**Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

15-1-H5.02-8903 MSFC

[Rapid Manufacturing of Durable, Cost-Effective Ceramic Matrix Composites for High Temperature Structures](#) [93]

**Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

15-1-H2.04-8901 GRC

[Parahydrogen-Orthohydrogen Catalytic Conversion for Cryogenic Propellant Passive Heat Shielding](#) [94]

**Ventions, LLC**

1142 Howard Street

San Francisco, CA 94103

Amit Mehra (202) 213-2846

15-1-H2.01-9859 GRC

[Small-Scale, Methane-Fueled Reaction Control Engines for In-Space Propulsion](#) [95]

**Ventions, LLC**

1142 Howard Street

San Francisco, CA 94103

Amit Mehra (202) 213-2846

15-1-S4.03-9675 JPL

[High-Performance, Pump-Fed Propulsion for Mars Ascent Vehicle Applications](#) [96]

• **Colorado (23)**

**Advanced Space, LLC**

2100 Central Ave Suite 102

Boulder, CO 80301

Bradley Cheetham (607) 316-1273

15-1-H9.03-9689 GSFC

[Improved Navigation for Highly Dynamic Environments](#) [97]

**Altius Space Machines, Inc.**

3001 Industrial Lane, Unit #5

Broomfield, CO 80020

Jonathan Goff (801) 362-2310

15-1-Z5.01-9370 ARC

[Low-Inertia STEM Arm \(LISA\) Manipulators for Assistive Free-Flyers](#) [98]

**Barber-Nichols, Inc.**

6325 West 55th

Arvada, CO 80002

Jeff Shull (303) 421-8111

15-1-H2.01-9651 GRC

[Enabling Pump Technologies for Deep Throttle Ascent/Descent Engine Operation](#) [99]

**Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

15-1-S1.07-9700 GSFC

[Compact 3D Wind Sensor for Unmanned Aerial Vehicles](#) [100]

**Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

15-1-H14.01-9699 JSC

[LMM Holographic Optical Tweezers \(HOT\) Module](#) [101]

**Composite Technology Development, Inc.**

2600 Campus Drive, Suite D

Lafayette, CO 80026

Lori Bass (303) 664-0394

15-1-S1.05-8837 GSFC

[Electric Potential and Field Instrument for CubeSat \(EPIC\)](#) [102]

**ExoTerra Resource, LLC**

10579 Bradford Rd, Suite 103

Littleton, CO 80127

Michael VanWoerkom (303) 565-6898

15-1-Z4.01-8766 ARC

[Cubesat SEP Power Module](#) [103]

**Extreme Diagnostics, Inc.**

6960 Firerock Court

Boulder, CO 80301

Robert Owen (303) 523-8924

15-1-S2.02-9994 JPL

[Macro-Fiber Composite-based actuators for space](#) [104]

**i2C Solutions**

500 South Arthur Avenue

Louisville, CO 80027

Doug Campbell (720) 300-8167

15-1-S3.07-9239 GSFC

[Flexible 2-Phase Thermal Strap for Small Sats](#) [105]

**Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 980-0890

15-1-S3.02-9159 GRC

[Nitrous Ethane-Ethylene Rocket with Hypergolic Ignition](#) [106]

**Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 980-0890

15-1-H1.01-9764 JSC

[Carbonaceous Asteroid Volatile Recovery \(CAVoR\) system](#) [107]

**Plasma Controls, LLC**

1180 La Eda Lane

Fort Collins, CO 80526

Casey Farnell (970) 581-2239

15-1-S3.02-8693 GRC

[Electride Hollow Cathode](#) [108]

**Quest Thermal Group**

6452 Fig Street Unit A

Arvada, CO 80004

Alan Kopelove (303) 395-3100

15-1-H2.04-9559 GRC

[Integrated Launch Vehicle - Load Responsive MLI: High Performance during Launch Ascent, In-Air, On-Orbit and On-Mars](#) [109]

**Quest Thermal Group**

6452 Fig Street Unit A

Arvada, CO 80004

Alan Kopelove (303) 395-3100

15-1-H2.04-9218 GRC

[Vapor Cooled Structure MLI: Efficient Vapor Cooling of Structural Elements](#) [110]

**ROCCOR, LLC**

500 South Arthur, Unit 300

Louisville, CO 80027

Douglas Campbell (720) 300-8167

15-1-H5.01-9228 LaRC

[Robust, Highly Scalable Solar Array System](#) [111]

**ROCCOR, LLC**

500 South Arthur, Unit 300

Louisville, CO 80027

Douglas Campbell (720) 300-8167

15-1-S2.02-9221 JPL

[Dimensionally Stable Structural Space Cable](#) [112]

**SibellOptics, LLC**

815 Beauprez Avenue

Lafayette, CO 80026

Russell Sibell (303) 913-1772

15-1-S1.01-8825 LaRC

[Development of a High Energy Er-Fiber Amplifier for a Space-based Wind, Aerosol, and Range Lidar Sensor](#) [113]



**Special Aerospace Services**

3005 30th Street

Boulder, CO 80301

Kimberley Lopez (303) 747-6885

15-1-H2.01-8819 GRC

[ORSC Methane Ascent/Descent Engine Technology Development](#) [114]

**Sporian Microsystems, Inc.**

515 Courtney Way, Suite B

Lafayette, CO 80026

Mike Usrey (303) 516-9075

15-1-A1.07-9387 GRC

[High Temperature "Smart" P3 Sensors and Electronics for Distributed Engine Control](#) [115]

**TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

15-1-H11.01-9318 LaRC

[Multifunctional Polyolefin Matrix Composite Structures](#) [116]

**Tendeg LLC**

686 S Taylor Ave Ste 108

Louisville, CO 80027

Douglas Campbell (720) 300-8167

15-1-S1.02-9216 JPL

[ROC-Rib Deployable Ka-Band Antenna for Nanosatellites](#) [117]

**Vescent Photonics, Inc.**

14998 West 6th Avenue, #700

Golden, CO 80401

Ruth McCurry (303) 296-6766

15-1-H9.01-8772 JPL

[Electro-Optically Scanned Micro-Laser Communication Module](#) [118]

**Vescent Photonics, Inc.**

14998 West 6th Avenue, #700

Golden, CO 80401

Ruth McCurry (303) 296-6766

15-1-S1.09-8674 JPL

[Robust Frequency Combs and Lasers for Optical Clocks and Sensing](#) [119]

• **Connecticut (6)**

**Air-Lock, Inc.**

Wampus Lane

Milford, CT 6460

Brian Battisti (203) 878-4691

15-1-H4.02-9792 JSC

[Contact Stress Design Parameters for Titanium Bearings](#) [120]

**Connecticut Analytical Corporation**

696 Amity Road

Bethany, CT 6524

Joseph Bango (203) 393-9666

15-1-S1.06-9867 JPL

[Low Power Miniature Colloidal High Vacuum Pump](#) [121]

**nVizix, LLC**

127 Greyrock Place, Suite 1212

Stamford, CT 6901

Elie Track (914) 953-2069

15-1-H8.03-9093 GRC

[Light-Weight, Flexible, High Efficiency Vacuum Photo-Thermo-Voltaic Solar Cells](#) [122]

**Precision Combustion, Inc.**

410 Sackett Point Road

North Haven, CT 6473

Amit Kumar (203) 287-3700

15-1-H8.02-9587 GRC

[Efficient, High Power Density Hydrocarbon-Fueled Solid Oxide Stack System](#) [123]

**Qualtech Systems, Inc.**

100 Corporate Place Suite 220

Rocky Hill, CT 6067

Sudipto Ghoshal (860) 761-9341

15-1-S5.05-9573 ARC

[Fault Management Technologies - Metrics Evaluation and V&V](#) [124]

**Sustainable Innovations, LLC**

111 Roberts Street, Suite J

East Hartford, CT 6108

Trent Molter (860) 289-0159

15-1-H10.01-8824 SSC

[Highly Efficient Electrochemical Cryogenic Purge Gas Recovery System](#) [125]

• **Delaware (3)**

**AlphaSense, Inc.**

510 Philadelphia Pike

Wilmington, DE 19809

Xin Zhang (302) 998-1116

15-1-A2.01-9961 AFRC

[A Novel Laser Ultrasound Visualization Tool for Non-destructive Evaluation of Composite Aircraft Structures](#) [126]

**AlphaSense, Inc.**

510 Philadelphia Pike

Wilmington, DE 19809

Xin Zhang (302) 998-1116

15-1-Z6.01-9513 MSFC

[A Novel 3D Printer to Support Additive Manufacturing of Gradient Metal Alloy Structures](#) [127]

**EM Photonics, Inc.**

51 East Main Street, Suite 203

Newark, DE 19711

Eric Kelmelis (302) 456-9003

15-1-S5.01-8794 ARC

[A Scheduling-Based Framework for Efficient Massively Parallel Execution](#) [128]

• **District of Columbia (1)**

**AeroMancer Technologies Corporation**

1375 Kenyon St NW Apt 408

Washington, DC 20010

Anand Radhakrishnan (202) 556-0625

15-1-A1.08-9770 LaRC

[3D Flow Field Measurements using Aerosol Correlation Velocimetry](#) [129]

• **Florida (8)**

**Accelogic, LLC**

1633 Bonaventure Boulevard

Weston, FL 33326

Juan Gonzalez (954) 888-4711

15-1-S5.01-9614 ARC

[Accelerating Memory-Access-Limited HPC Applications via Novel Fast Data Compression](#) [130]

**Dioxide Materials, Inc.**

3998 FAU Blvd #300

Boca Raton, FL 33431

Rich masel (217) 239-1400

15-1-H8.02-9936 GRC

[Room Temperature Electrolyzers For Oxygen Generation On Mars](#) [131]

**Florida Turbine Technologies, Inc.**

1701 Military Trail, Suite 110

Jupiter, FL 33458

Lloyd Mazer (561) 427-6337

15-1-H2.01-9299 GRC

[Additive Manufacturing Applied to LOX - Methane Turbopumps](#) [132]

**Florida Turbine Technologies, Inc.**

1701 Military Trail, Suite 110

Jupiter, FL 33458

Lloyd Mazer (561) 427-6337

15-1-H2.02-8968 MSFC

[Long Life Bearings for Nuclear Thermal Propulsion](#) [133]

**Interdisciplinary Consulting Corporation**

5745 Southwest 75th, 364

Gainesville, FL 32608

Leonard Kubik (256) 960-9520

15-1-A1.08-8885 LaRC

[Miniaturized Dynamic Pressure Sensor Arrays with Sub-Millimeter \(mm\) Spacing for Cross-Flow Transition Measurements](#) [134]

**Keystone Synergistic Enterprises, Inc.**

664 Northwest Enterprise Drive, Suite 118

Port Saint Lucie, FL 34953

Bryant Walker (772) 343-7544

15-1-Z6.01-9018 MSFC

[Advanced Solid-State Joining Processes for 2219 Aluminum Alloys](#) [135]

**Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

15-1-H3.03-9079 MSFC

[Designer Fluid for use in a Single Loop Variable Heat Rejection Thermal Control System](#) [136]

**Semplastics EHC, LLC**

269 Aulin Avenue, Suite 1003

Oviedo, FL 32765

Barbara Hopkins (407) 353-6885

15-1-S2.03-9856 MSFC

[Ultra-low Cost, Lightweight, Molded, Chalcogenide Glass-Silicon Oxycarbide Composite Mirror Components](#) [137]

• **Georgia (1)**

**Area-I, Inc.**

1590 North Roberts Road, Suite 102

Kennesaw, GA 30144

Hilary Beeston (678) 594-5227

15-1-A2.02-9634 AFRC

[Flight Testing of Resource allocation for Multi-Agent Planning \(ReMAP\) System for Unmanned Vehicles](#) [138]

• **Hawaii (1)**

**WxOps, Inc.**

500 Ala Moana Blvd Suite 400

Honolulu, HI 96813

Scott Shipley (571) 309-6024

15-1-A3.03-8717 ARC

[Transported Turbulence during Climb, Cruise and Descent](#) [139]

• **Illinois (6)**

**Applied Material Systems Engineering, Inc. (AMSENG)**

2309 Pennsbury Court

Schaumburg, IL 60194

Mukund Deshpande (630) 372-9650

15-1-S3.07-9425 GSFC

[Innovations for the Affordable Conductive Thermal Control Material Systems for Space Applications](#) [140]

**Digital Optics Technologies, Inc.**

1645 Hicks Road, Suite R

Rolling Meadows, IL 60008

Rabia Shahriar (847) 358-2592

15-1-S3.08-9455 MSFC

[Fast Light Enhanced Active and Passive Gyroscopes, Accelerometers and Fiber- Optic Sensors](#) [141]

**EPIR, Inc.**

590 Territorial Drive

Bolingbrook, IL 60440

Sivalingam Sivananthan (630) 771-0203

15-1-H7.01-9872 ARC

[Next generation HgCdTe FPAs for high frame rate characterization of thermal protective systems](#) [142]

**MicroLink Devices, Inc.**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 920-9705

15-1-S3.01-9281 GRC

[Large-Area, Multi-Junction, Epitaxial Lift-Off Solar Cells with Backside Contacts](#) [143]

**MicroLink Devices, Inc.**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 920-9705

15-1-S3.01-9275 GRC

[Flexible ELO Solar Cells with Ultra-High Specific Power and Areal Power Density](#) [144]

**MicroLink Devices, Inc.**

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6457 Howard Street

Niles, IL 60714

Noren Pan (847) 920-9705

15-1-H8.03-9072 GRC

[Radiation Hard, High Efficiency, Quadruple Junction Solar Cells Based on InGaAsN](#) [145]

- **Indiana (4)**

**Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Mark Deuser (812) 923-9591

15-1-H14.01-9736 JSC

[Electrical Microgravity Research in Colloidal Development Platform](#) [146]

**Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Mark Deuser (812) 923-9591

15-1-H14.01-9877 JSC

[Snap Freezer for ISS](#) [147]

**Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Mark Deuser (812) 923-9591

15-1-H14.01-9875 JSC

[Rodent Centrifuge Facility for ISS Life and Microgravity Science Research](#) [148]

**Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Mark Deuser (812) 923-9591



15-1-H14.03-9732 MSFC

[Space Plastic Recycling System](#) [149]

- **Kansas (2)**

- **Sunlite Science & Technology, Inc.**

- 4811 Quail Crest Place

- Lawrence, KS 66049

- Fong Suo (785) 856-0219

- 15-1-S2.01-9534 JPL

- [Switching Electronics for Space-based Telescopes with Advanced AO Systems](#) [150]

- **UAVradars, LLC**

- 2029 Becker Drive

- Lawrence, KS 66047

- Lei Shi (316) 461-1181

- 15-1-A2.02-9059 AFRC

- [Collision-avoidance radar for small UAS](#) [151]

- **Louisiana (1)**

- **Geocent, LLC**

- 111 Veterans Boulevard, Suite 1600

- Metairie, LA 70005

- Cathy Murray (504) 831-1900

- 15-1-S5.02-8861 SSC

- [Cloud-Based Open Data Environment and Flow-based Aggregation Science Tool \(CODEFAST\)](#) [152]

- **Maryland (13)**

- **Arctic Slope Technical Services**

- 7000 Muirkirk Meadows Drive, Suite 100

- Beltsville, MD 20705

David Dempsey (301) 837-9029

15-1-S4.03-9756 JPL

[High Performance Nozzle for Mars Ascent Vehicle](#) [153]

**Brimrose Technology Corporation**

P.O. Box 616, 19 Loveton Circle

Sparks, MD 21152

Diane Murray (936) 588-6901

15-1-H11.01-9623 LaRC

[Novel Approach In Fabrication Of Shielding Composite Materials By Emerging Field Assisted Sintering Technique \(FAST\)](#) [154]

**CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Neil Goldsman (301) 405-3363

15-1-S1.04-8822 GSFC

[Large Area Silicon Carbide Photodiode Active Pixel Sensor](#) [155]

**Emergent Space Technologies, Inc.**

6411 Ivy Lane, Suite 303

Greenbelt, MD 20770

Everett Cary (301) 345-1535

15-1-H9.03-9090 GSFC

[World-Class Visualizations in GMAT](#) [156]

**Heron Systems, Inc.**

20945 Great Mills Road

Lexington Park, MD 20653

Brett Darcey (571) 257-8403

15-1-A2.02-9727 AFRC

[A Modular Swarm Optimization Framework Enabling Multi-Vehicle Coordinated Path Planning](#) [157]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

15-1-A2.02-9001 AFRC

[Verification and Validation of Adaptive Learning Control System Towards Safety Assurance and Trusted Autonomy](#) [158]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

15-1-S1.02-9012 JPL

[Scalable Architectures for Distributed Beam-Forming Synthetic Aperture Radar \(DBSAR\)](#) [159]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

15-1-A3.01-9007 ARC

[360-Degree Analysis Engine for Autonomous NAS Operations and Control](#) [160]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

15-1-H9.02-9004 GRC

[Cognitive Engine enabled Mission-aware Intelligent Communication System for Space Networking](#) [161]

**Lightweight Telescopes, Inc.**

5469 Hound Hill Court

Columbia, MD 21045

Peter Chen (410) 992-3914

15-1-S2.03-8703 MSFC

[High Performance Consumer-Affordable Nanocomposite Mirrors with Supersmooth Surfaces, Precise Figuring, and Innovative 3D Printed Structures](#) [162]

**Robust Analytics**

2053 Liza Way

Gambrills, MD 21054

Peter Kostiuk (410) 980-3667

15-1-A3.01-9499 ARC

[Networked ATM for Efficient Routing](#) [163]

**Sigma Space Corporation**

4600 Forbes Boulevard

Lanham, MD 20706

Timothy Kirk (301) 552-6027

15-1-S4.01-9469 JPL

[A Next Generation Imaging for Space Application](#) [164]

**X-wave Innovations, Inc.**

407 Upshire Circle

Gaithersburg, MD 20878

Jennifer Duan (240) 364-6015

15-1-H13.02-8642 LaRC

[An Advanced Ultrasonic Imaging System using Time-Reversal MUSIC Technique for Rapid Inspection of Ultra Large, Complex Composite Structures](#) [165]

• **Massachusetts (32)**

**Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 1821

George Wittreich (978) 932-0215

15-1-S3.01-9314 GRC

[Dwell Mechanism for Increasing Free-Piston Stirling Engine Specific Power and Efficiency](#) [166]

**Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 1821

George Wittreich (978) 663-9500

15-1-S1.07-9996 GSFC

[3-color DPAS Aerosol Absorption Monitor](#) [167]

**Aurora Flight Sciences Corporation**

90 Broadway, 11th Floor

Cambridge, MA 2142

Scott Hart (617) 500-4892

15-1-A1.01-9853 LaRC

[Benefit Analysis of Hybrid CNT/CFRP Composites in Future Aircraft Structures](#) [168]

**Aurora Flight Sciences Corporation**

90 Broadway, 11th Floor

Cambridge, MA 2142

Scott Hart (617) 500-4892

15-1-A1.06-9851 ARC

[Vertical Lift by Series Hybrid Power](#) [169]

**Aurora Flight Sciences Corporation**

90 Broadway, 11th Floor

Cambridge, MA 2142

Scott Hart (617) 500-4892

15-1-H5.03-9848 LaRC

[In-situ Sensing for Multi-Functional Structures](#) [170]

**Boston Applied Technologies, Inc.**

6F Gill Street

Woburn, MA 1801

Yingyin Zou (781) 935-2800

15-1-S1.07-9270 GSFC

[Mobile Passive MWIR Gas Imager](#) [171]

**Boston Micromachines Corporation**

30 Spinelli Place

Cambridge, MA 2138

Paul Bierden (617) 868-4178

15-1-S2.01-9488 JPL

[Improved Yield, Performance and Reliability of High-Actuator-Count Deformable Mirrors](#) [172]

**Busek Company, Inc.**

11 Tech Circle

Natick, MA 1760

Judy Budny (508) 655-5565

15-1-Z4.01-9244 ARC

[Hybrid Direct Drive PPU for Deep Space CubeSat Propulsion System](#) [173]

**Busek Company, Inc.**

11 Tech Circle

Natick, MA 1760

Judy Budny (508) 655-5565

15-1-H6.01-9110 JSC

[SOUL System Maturation](#) [174]

**Busek Company, Inc.**

11 Tech Circle

Natick, MA 1760

Judy Budny (508) 655-5565

15-1-S3.02-8993 GRC

[Iodine-Compatible C12A7 Electride Hollow Cathode](#) [175]

**Busek Company, Inc.**

11 Tech Circle

Natick, MA 1760

Judy Budny (508) 655-5565

15-1-S3.02-8954 GRC

[High Performance Iodine Feed System](#) [176]

**Charles River Analytics, Inc.**

625 Mount Auburn Street

Cambridge, MA 2138

Yvonne Fuller (617) 491-3474

15-1-H12.02-9970 JSC

[Cognitive Assessment and Prediction to Promote Individualized Capability Augmentation and Reduce Decrement \(CAPT PICARD\)](#) [177]

**ElectroChem, Inc.**

400 West Cummings Park

Woburn, MA 1801

Radha Jalan (781) 938-5300

15-1-S3.06-9407 GSFC

[Advanced Onboard Energy Storage Solution for Balloons](#) [178]

**Energid Technologies**

One Mifflin Place, Suite 400

Cambridge, MA 2138

James English (888) 547-4100

15-1-H6.01-9378 JSC

[Stochastic Robotic Simulation Tool](#) [179]

**Energid Technologies**

One Mifflin Place, Suite 400

Cambridge, MA 2138

James English (888) 547-4100

15-1-Z5.01-9128 ARC

[Robotic Arm for Assistive Free-Flyers](#) [180]

**FastCAP Systems Corporation**

21 Drydock Avenue

Boston, MA 2210

Jamie Beard (857) 239-7500

15-1-S4.04-8951 JPL

[Ultra-High Temperature Solid State Ultracapacitor Operating at 300C For Extreme Environments](#) [181]

**FastCAP Systems Corporation**

21 Drydock Avenue

Boston, MA 2210

Jamie Beard (857) 239-7500

15-1-S3.03-8980 GRC

[Wide Operating Temperature Range Ruggedized Ultracapacitor For Deep Space Exploration](#) [182]

**Giner, Inc.**

89 Rumford Avenue

Newton, MA 2466

Cortney Mittelsteadt (781) 529-0529

15-1-H3.03-9254 MSFC

[Oxygen Recovery From Carbon Dioxide Through Electrolysis](#) [183]

**Giner, Inc.**

89 Rumford Avenue

Newton, MA 2466

Cortney Mittelsteadt (781) 529-0529

15-1-H14.02-9260 JSC

[High Pressure Electrochemical Oxygen Generation for ISS](#) [184]

**Incom, Inc.**

294 Southbridge Road

Charlton, MA 1507

Steve Morrill (508) 909-2316

15-1-S1.05-9590 GSFC

[Curved Microchannel Plates for Spaceflight Mass Spectrometers](#) [185]

**Microscale, Inc.**

800 West Cummings Park, Suite 3350

Woburn, MA 1801

xingtao wu (339) 927-1996



15-1-S2.01-8685 JPL

[Single Crystal Piezoelectric Stack Actuator DM with Integrated Low-Power HVA-Based Driver ASIC](#) [186]

**New Electricity Transmission Software Solutions (NETSS)**

22 Weir Hill Road

Sudbury, MA 1776

Sanja Cvijic (215) 272-7969

15-1-A1.03-8884 GRC

[Toward Autonomous Stable Energy Management of Hybrid Electric Aircraft Propulsion Systems](#) [187]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 1810

B. David Green (978) 689-0003

15-1-H12.01-9633 GRC

[Optical System for Monitoring Net Occular Blood Flow](#) [188]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 1810

B. David Green (978) 689-0003

15-1-H3.02-9680 KSC

[Solar Plant Growth System for Food Production in Space Exploration Missions](#) [189]

**Q-Peak, Inc.**

135 South Road

Bedford, MA 1730

B. David Green (978) 689-0003

15-1-H9.01-9626 JPL

[High Average Power Fiber Laser for Satellite Communications](#) [190]

**Resilient Ops, Inc**

4 Albamont Road

Winchester, MA 1890

Bala Chandran (650) 248-8285

15-1-A3.02-8660 ARC

[A Framework for Autonomous Trajectory-Based Operations](#) [191]

**Resilient Ops, Inc**

4 Albamont Road

Winchester, MA 1890

Bala Chandran (650) 248-8285

15-1-A3.01-8620 ARC

[A SMART NAS Toolkit for Optimality Metrics Overlay](#) [192]

**Second Star Algonumerix**

19 West Street

Needham, MA 2494

Anastasia Tyurina (781) 400-1323

15-1-S2.04-9193 GSFC

[InTILF Method for Analysis of Polished Mirror Surfaces](#) [193]

**Spectral Sciences, Inc.**

4 Fourth Avenue

Burlington, MA 1803

Leslie McCarthy (781) 273-4770

15-1-Z1.01-9890 GRC

[Electrospray Propulsion Engineering Toolkit \(ESPET\)](#) [194]

**Spectral Sciences, Inc.**

4 Fourth Avenue

Burlington, MA 1803

Leslie McCarthy (781) 273-4770

15-1-H3.01-9673 JPL

[Spacecraft Potable Water Monitor](#) [195]

**Superconducting Systems, Inc.**

900 Middlesex Turnpike

Billerica, MA 1821

Shahin Pourrahimi (978) 935-2805

15-1-S1.10-8676 GSFC

[Shielded 3T HTS ADR Magnet Operating at 30-40 K](#) [196]

**TIAX LLC**

35 Hartwell Avenue

Lexington, MA 2421

Renee Wong (781) 879-1286

15-1-H5.03-9416 LaRC

[Multifunctional Composite for Integrated Strain, Damage and Temperature Sensing](#) [197]

• **Michigan (7)**

**Cybernet Systems Corporation**

3741 Plaza Drive

Ann Arbor, MI 48108

Norma Heller (734) 668-2567

15-1-H4.03-9054 JSC

[E VA Space Suit Power, Avionics, and Software Systems](#) [198]

**ElectroDynamic Applications, Inc.**

P.O. Box 131460

Ann Arbor, MI 48105

Jonathan Zagel (734) 786-1434

15-1-H2.03-8803 GRC

[Integrated Energetic Ion Mitigation for High Power Plasma Cathodes](#) [199]

**Michigan Aerospace Corporation**

1777 Highland Drive, Suite B

Ann Arbor, MI 48108

John Dodds (734) 975-8777

15-1-S1.07-9520 GSFC

[eVADE: Volcanic Ash Detection Raman LIDAR](#) [200]

**sci\_zone**

17133 Inavale

Holland, MI 49424

Andrew Santangelo (505) 205-8315

15-1-A2.02-9071 AFRC

[A low cost, secure radio communications system for UAVs](#) [201]

**Sheridan Solutions, LLC**

745 Woodhill Drive

Saline, MI 48176

John Sheridan (734) 604-1120

15-1-H5.03-9682 LaRC

[Ultrasonic Additive Manufacturing for Multifunctional Structural Materials with Embedded Capabilities](#) [202]

**Sheridan Solutions, LLC**

745 Woodhill Drive

Saline, MI 48176

John Sheridan (734) 604-1120

15-1-Z6.01-9993 MSFC

[Ultrasonic Additive Manufacturing for Efficient Space Vehicles](#) [203]

**Sheridan Solutions, LLC**

745 Woodhill Drive

Saline, MI 48176

John Sheridan (734) 604-1120

15-1-S3.07-9989 GSFC

[Ultrasonic Additive Manufacturing for Capillary Heat Transfer Devices and Integrated Heat Exchangers](#) [204]

• **Minnesota (2)**

**Adventium Enterprises, LLC**

111 Third Avenue South, Suite 100

Minneapolis, MN 55401

Lindsey Hillesheim (612) 481-0533

15-1-S3.09-9203 GSFC

[Non Invasive Instrumentation For Single Event Effects \(NIISEE\)](#) [205]

**SIFT, LLC**

319 Noth 1st Avenue, Suite 400

Minneapolis, MN 55401

Linda Holje (612) 226-5061

15-1-H12.02-9934 JSC

[ATHENA - Appraisal of Task Health and Effort through Non-Intrusive Assessments](#) [206]

• **Missouri (2)**

**InnovaPrep, LLC**

132 East Main Street

Drexel, MO 64742

Ann Packerham (816) 619-3375

15-1-H3.01-9921 JPL

[Rapid Concentration for Improved Detection of Microbes in ISS Potable Water](#) [207]

**Innovative Technology Applications, Co.**

P.O. Box 6971

Chesterfield, MO 63006

Alan Cain (314) 373-3311

15-1-A1.02-9373 LaRC

[Plasma Flow Control for Drag Reduction](#) [208]

• **Montana (2)**

**ADVR, Inc.**

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

15-1-S1.07-9654 GSFC

[A Multi-Wavelength Seed Derived Laser for In-Situ Validation of Airborne Remote Sensing Instruments](#) [209]

**Bridger Photonics, Inc.**

2310 University Way, Building, 4-4

Bozeman, MT 59715

Peter Roos (406) 585-2774

15-1-S1.01-8695 LaRC

[Compact, Rugged and Low-Cost Atmospheric Ozone DIAL Transmitter](#) [210]

• **Nevada (1)**

**Digital Solid State Propulsion, Inc**

5475 Louie Lane, Suite D

Reno, NV 89511

Wayne Sawka (775) 851-4443

15-1-S3.02-9769 GRC

[Green Electric Monopropellant \(GEM\) Fueled Pulsed Plasma Thruster](#) [211]

• **New Hampshire (6)**

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 643-3800

15-1-H8.01-8888 GRC

[Ultra-Compact Heat Rejection System for Fission Surface Power](#) [212]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 643-3800

15-1-A1.03-9346 GRC

[A New Cryocooler for MgB2 Superconducting Systems in Turboelectric Aircraft](#) [213]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 643-3800

15-1-H3.03-8856 MSFC

[A Robust, Gravity-Insensitive, High-Temperature Condenser](#) [214]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 643-3800

15-1-S1.10-8853 GSFC

[A High Efficiency 30 K Cryocooler with Low Temperature Heat Sink](#) [215]

**Cycronix**

21 Surrey Lane

Laconia, NH 3246

Matthew Miller (603) 556-9181

15-1-A2.01-9858 AFRC

[CloudTurbine: Streaming Data via Cloud File Sharing](#) [216]

**QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 3063

Mani Sundaram (603) 821-3092

15-1-S1.03-9136 JPL

[Antimony-Based Focal Plane Arrays for Shortwave-Infrared to Visible Applications](#) [217]

• **New Jersey (6)**

**Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 8618

Barbara Agans (609) 538-0444

15-1-A2.02-9479 AFRC

[Fully-Automated, Agricultural Application using Unmanned Aircraft](#) [218]

**Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 8618

Barbara Agans (609) 538-0444

15-1-A1.05-9104 GRC

[Physics-Based Aeroanalysis Methods for Open Rotor Conceptual Design](#) [219]

**Energy Research Company**

1250 South Avenue

Plainfield, NJ 7062

Arel Weisberg (908) 561-8110

15-1-S1.06-9844 JPL

[Compact High Performance Spectrometers Using Computational Imaging](#) [220]

**Princeton Lightwave, Inc.**

2555 Route 130 South, Suite 1

Cranbury, NJ 8512

Mark Itzler (609) 495-2551

15-1-S1.01-9021 LaRC

[High-Power Tunable SeedLaser for Methane LIDAR Transmitter](#) [221]

**Twinleaf, LLC**

848 Alexander Road

Princeton, NJ 8540

Elizabeth Foley (609) 759-0859

15-1-S1.05-8714 GSFC

[Space-Qualified Compact Optical Magnetometer](#) [222]

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**UNITED SILICON CARBIDE, INC.**

7 Deer Park Drive, Suite E

Monmouth Junction, NJ 8852

Scott Kelly (732) 355-0550

15-1-S4.04-9341 JPL

[Extreme Environment Electronics based on Silicon Carbide](#) [223]

• **New Mexico (6)**

**Applied Technology Associates**

1300 Britt Street Southeast

Albuquerque, NM 87123

Tom Edmondson (505) 767-1214

15-1-H9.01-9686 JPL

[Stable Platform for Optical Communications \(SPOC\)](#) [224]

**LoadPath**

933 San Mateo Boulevard Northeast, Suite 500-326

Albuquerque, NM 87108

Adam Biskner (505) 331-5331

15-1-S3.07-9621 GSFC

[High heat flux Enhanced Acquisition and Transport system for Small spacecraft](#) [225]

**Mesa Photonics, LLC**

1550 Pacheco Street

Santa Fe, NM 87505

David Bomse (505) 216-5015

15-1-S3.04-9392 GSFC

[Cloud Droplet Characterization System for Unmanned Aircraft](#) [226]

**Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505

Alan Stanton (505) 984-1322

15-1-S1.07-9285 GSFC

[Instrument for Airborne Measurement of Carbonyl Sulfide](#) [227]

**Ultra Safe Nuclear Corporation**

186 Piedra Loop

Los Alamos, NM 87544

Francesco Venneri (858) 353-9895

15-1-H2.02-9127 MSFC

[Passive Technology to Improve Criticality Control of NTP Reactors](#) [228]

**Vista Photonics, Inc.**

4611 Research Park Circle B220

Las Cruces, NM 88001

Jeffery Pilgrim (505) 216-2287

15-1-S1.07-8840 GSFC

[Real-Time Airborne Infra-Red Carbon Dioxide Analyzer](#) [229]

• **New York (10)**

**Automated Dynamics**

407 Front Street

Schenectady, NY 12305

David Hauber (518) 377-6471

15-1-Z2.01-9432 MSFC

[Laser Additive Manufacturing of Large Scale Polymer Matrix Composite Structures](#) [230]

**Final Frontier Design**

313 7th Avenue, Suite 3L

Brooklyn, NY 11215

Theodore Southern (347) 512-0082

15-1-H4.02-9511 JSC

[High Pressure EVA Glove \(HPEG\)](#) [231]

**Honeybee Robotics, Ltd.**

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Chris Chapman (626) 459-7802

15-1-S1.06-9575 JPL

[Lunar Heat Flow Probe](#) [232]

**Honeybee Robotics, Ltd.**

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Chris Chapman (626) 459-7802

15-1-H1.01-9667 JSC

[Planetary Volatiles Extractor for In Situ Resource Utilization](#) [233]

**Honeybee Robotics, Ltd.**

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Chris Chapman (626) 459-7802

15-1-S4.05-9420 JPL

[Development of a Hermetically Sealed Canister for Sample Return Missions](#) [234]

**Honeybee Robotics, Ltd.**

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Chris Chapman (212) 966-0661

15-1-S3.09-8661 GSFC

[Miniaturized System-in-Package Motor Controller for Spacecraft and Orbital Instruments](#) [235]

**KBN Optics, LLC**

15 Wind Tree Circle

Pittsford, NY 14534

Jerry Kuper (585) 748-0959

15-1-S3.08-9199 MSFC

[Slow-Light-Enhanced Spectral Interferometers](#) [236]

**Optimax Systems, Inc.**

6367 Dean Parkway

Ontario, NY 14519

Tom Kelly (585) 217-0729

15-1-S2.04-9683 GSFC

[Manufacture of Monolithic Telescope with a Freeform Surface](#) [237]

**Optimax Systems, Inc.**

6367 Dean Parkway

Ontario, NY 14519

Tom Kelly (585) 217-0729

15-1-S2.04-9355 GSFC

[Freeform Optics: A Non-Contact "Test Plate" for Manufacturing](#) [238]

**Optimax Systems, Inc.**

6367 Dean Parkway

Ontario, NY 14519

Tom Kelly (585) 217-0729

15-1-S2.03-9591 MSFC

[Additive Manufacturing for Lightweight Reflective Optics](#) [239]

• **Ohio (10)**

**Converter Source, LLC**

16922 South Canaan Road

Athens, OH 45701

David Gedeon (740) 592-5166

15-1-S3.01-9476 GRC

[Novel Ring-Configuration Double-Acting Free-Piston Stirling Converter](#) [240]

**Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Stephen Vining (937) 320-1877

15-1-A1.01-9678 LaRC

[Hybrid Nanocomposites for Efficient Aerospace Structures](#) [241]

**Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Stephen Vining (937) 320-1877

15-1-A1.02-9677 LaRC

[Microblowing Technique for Drag Reduction](#) [242]

**Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Stephen Vining (937) 320-1877

15-1-H14.03-9603 MSFC

[Reversible Copolymer Materials for FDM 3-D Printing of Non-Standard Plastics](#) [243]

**Hyper Tech Research, Inc.**

539 Industrial Mile Road

Columbus, OH 43228

Sheryl Cantu (740) 517-1938

15-1-A1.03-9200 GRC

[High Performance Carbon Nanotube Based Conductors](#) [244]

**Innovative Scientific Solutions, Inc.**

7610 McEwen Road

Dayton, OH 45459

Larry Goss (937) 630-3012

15-1-A1.08-9052 LaRC

[Fast Pressure-Sensitive Paint System for Production Wind Tunnel Testing](#) [245]

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**N&R Engineering**

6659 Pearl Road, #201

Parma Heights, OH 44130

Vinod Nagpal (440) 845-7020

15-1-A1.05-9471 GRC

[Physics-based MDAO tool for CMC blades and vanes conceptual design](#) [246]

**Powdermet, Inc.**

24112 Rockwell Drive

Euclid, OH 44117

andrew sherman (216) 404-0053

15-1-H5.02-9115 MSFC

[Multifunctional Tank Structure with Integral TPS](#) [247]

**Powdermet, Inc.**

24112 Rockwell Drive

Euclid, OH 44117

Andrew Sherman (216) 404-0053

15-1-S3.03-8858 GRC

[Wide Temperature, High Voltage and Energy Density Capacitors for Aerospace Exploration](#) [248]

**Tech4Imaging, LLC**

4171 Fairfax Drive

Columbus, OH 43220

Qussai Marshdeh (614) 214-2655

15-1-H14.01-9375 JSC

[Multi Phase Flow Decomposition and Imaging Using Electrical Capacitance Volume Tomography Sensors](#) [249]

• **Oregon (8)**

**IRPI, LLC**

7929 Southwest Burns Way, Suite A

Wilsonville, OR 97070

Ryan Jenson (503) 545-2501

15-1-H14.01-9251 JSC

[ISS Testbed for Capillary Two-Phase Flow Device Qualification](#) [250]

**The Innovation Laboratory, Inc.**

Portland, OR 97201

Michelle Camarda (503) 242-1761

15-1-A3.02-9408 ARC

[Convective Induced Turbulence Detection in Oceanic Trajectory-Based Operations](#) [251]

**The Innovation Laboratory, Inc.**

Portland, OR 97201

Michelle Camarda (503) 242-1761

15-1-A3.02-9395 ARC

[Auto-Suggest Capability via Machine Learning in SMART NAS](#) [252]

**The Innovation Laboratory, Inc.**

Portland, OR 97201

Michelle Camarda (503) 242-1761

15-1-A3.01-9208 ARC

[Trajectory-Based Operations \(TBO\) Cost Estimation](#) [253]

**UMPQUA Research Company**

P.O. Box 609

Myrtle Creek, OR 97457

John Aker (541) 863-2655

15-1-H3.03-9701 MSFC

[Nautilus Centripetal Capillary Condenser](#) [254]

**Voxel, Inc.**

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

15-1-H9.01-8990 JPL

[High Channel Count Time-to-Digital Converter and Lasercom Processor](#) [255]

**Voxel, Inc.**

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

15-1-S1.06-8989 JPL

[Compact High-Resolution, Time-Resolved Intensified Image Sensor](#) [256]

**Voxel, Inc.**

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

15-1-H9.01-8987 JPL

[Single-photon Lasercom Readout Integrated Circuit \(ROIC\)](#) [257]

• **Pennsylvania (8)**

**Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 295-6104

15-1-S3.07-9409 GSFC

[Two-phase Pumped Loop for Spacecraft Thermal Control](#) [258]

**Amchemteq, Inc**

7052 South Eagle Valley Road

Port Matilda, PA 16801

venkat Mani (814) 234-0123

15-1-H11.01-9158 LaRC

[Epoxy/UHMWPE Composite Hybridized with Gadolinium Nanoparticles for Space Exploration](#) [259]

**Azavea, Inc.**

340 North 12th Street, Suite 402B

Philadelphia, PA 19107



Robert Cheetham (215) 701-7713

15-1-S5.02-9041 SSC

[ModelLab: A Cloud-Based Platform to Support Advanced Geospatial Modeling of Earth Observation Data](#) [260]

**Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Katherine Young (215) 766-1520

15-1-S3.07-9437 GSFC

[Coupling Existing Software Paradigms for Thermal Control System Analysis of Re-Entry Vehicles](#) [261]

**DANIEL H. WAGNER ASSOCIATES, INC.**

559 West Uwchlan Avenue, Suite 140

Exton, PA 19341

Lori Leiby (610) 280-3830

15-1-A3.02-9466 ARC

[Weather Aware Route Planning \(WARP\)](#) [262]

**Materials Research and Design, Inc.**

300 East Swedesford Road

Wayne, PA 19087

Brian Sullivan (610) 964-6131

15-1-H7.01-8805 ARC

[Investigation of Effect of High, Short Duration Temperatures on Fiber Graphitization and Resulting Property Changes in 3D Woven TPS Preforms During Entry Trajectories](#) [263]

**Near Earth Autonomy, Inc.**

5001 Baum Boulevard, Suite 750

Pittsburgh, PA 15213

Marcel Bergerman (412) 513-6110

15-1-A3.02-9077 ARC

[Autonomous, Safe Take-Off and Landing Operations for Unmanned Aerial Vehicles in the National Airspace](#) [264]

**QorTek, Inc.**

1965 Lycoming Creek Road, Suite 205

Williamsport, PA 17701

Cathy Bower (570) 322-2700

15-1-S3.03-9105 GRC

[Extreme Environment Compatible Ceramic Enhanced PEBB Devices \(EE-PEBB\)](#) [265]

• **Tennessee (2)**

**Gloyer-Taylor Laboratories, LLC**

112 Mitchell Boulevard

Tullahoma, TN 37388

Paul Gloyer (931) 455-7333

15-1-H2.04-9987 GRC

[Light Weight Insulated Spherical Cryotank](#) [266]

**Gloyer-Taylor Laboratories, LLC**

112 Mitchell Boulevard

Tullahoma, TN 37388

Paul Gloyer (931) 455-7333

15-1-H11.01-9772 LaRC

[Multifunctional BHL Radiation Shield](#) [267]

• **Texas (17)**

**Dallas Optical Systems, Inc.**

1790 Connie Lane

Rockwall, TX 75032

John Casstevens (972) 564-1156

15-1-S2.03-9125 MSFC

[Additive Manufactured Very Light Weight Diamond Turned Aspheric Mirror](#) [268]

**Deep Space Industries Inc.**

18711 South Egret Bay Boulevard, #603

Houston, TX 77058

David Gump (703) 623-9616

15-1-H1.01-9186 JSC

[Task-Specific Asteroid Simulants for Ground Testing](#) [269]

**FuelCellsEtc**

1902 Pinon, Suite B

College Station, TX 77845

Daniel Westerheim (979) 635-4706

15-1-H10.01-8880 SSC

[Integrated Stack and Advanced MEAs for High-Yield, Long-Life Helium Reclamation System](#) [270]

**IntelliEPI IR, Inc.**

201 East Arapaho Road Suite 210

Richardson, TX 75081

Paul Pinsukanjana (972) 814-6050

15-1-S1.03-9391 JPL

[Type II SLS Materials Development for Space-based FPA Applications](#) [271]

**Invocon, Inc.**

19221 I-45 South, Suite 530

Conroe, TX 77385

Mary Delahunty (281) 292-9903

15-1-A2.01-9411 AFRC

[Wireless Sensor Network for Flight Test](#) [272]

**Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2200

15-1-H3.01-9305 JPL

[Reagent Regenerative Microgravity Compatible Inorganic Ion Analyzer](#) [273]

**Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2200

15-1-A1.02-9438 LaRC

[Drag Reduction through Pulsed Plasma Actuators](#) [274]

**Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Steve Savoy (512) 389-9990

15-1-Z1.02-9037 JPL

[Development of HighEfficiency Thermionic Power Generator](#) [275]

**Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Steve Savoy (512) 389-9990

15-1-A1.08-9032 LaRC

[Plenoptic Flow Imaging for Ground Testing](#) [276]

**Odyssey Space Research, LLC**

1120 NASA Parkway, Suite 505

Houston, TX 77058

Jana Rebmann (281) 862-7819

15-1-S5.05-8971 ARC

[Dynamic State-Based FM Design and Analysis Tool](#) [277]

**Photodigm, Inc.**

1155 East Collins Boulevard, #200

Richardson, TX 75081

Karen Goodwin (972) 235-7584

15-1-S1.01-9731 LaRC

[Integrated Miniature DBR Laser Module for Lidar Instruments](#) [278]

**Silicon Space Technology Corporation**

2028 East Ben White Boulevard, Suite 220

Austin, TX 78741

Garry Nash (631) 559-1550

15-1-S3.09-9956 GSFC

[Radiation Hardened ARM Micro Controller Module](#) [279]

**Systems & Processes Engineering Corp**

6800 Burleson Road, Bldg 320

Austin, TX 78744

Joseph Priest (512) 479-7732

15-1-S3.04-9526 GSFC

[Miniature UAV Wind LIDAR & Flight Extension System](#) [280]

**Systems & Processes Engineering Corp**

6800 Burleson Road, Bldg 320

Austin, TX 78744

Joseph Priest (512) 479-7732

15-1-S3.05-9525 GSFC

[Miniature HD6D Navigation and Rendezvous LIDAR & Software](#) [281]

**Systems & Processes Engineering Corp**

6800 Burleson Road, Bldg 320

Austin, TX 78744

Joseph Priest (512) 479-7732

15-1-H13.02-9522 LaRC

[Space Vehicle Inspection High Range Resolution & Raman Spectral LIDAR](#) [282]

**Texas Research Institute Austin, Inc.**

9063 Bee Caves Road

Austin, TX 78733

Annette Pizzini (512) 263-2101

15-1-H13.01-8878 LaRC

[NDE Big Data Framework](#) [283]

**TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

15-1-H6.01-8613 JSC

[Bridging the Gap Between Procedure Definition and Robot Execution](#) [284]

• **Utah (1)**

**Silicon Technologies, Inc.**

4568 South Highland Drive, Suite 300

Holladay, UT 84117

Thomas Wolf (801) 913-4332

15-1-H4.03-9650 JSC

[Audio ADC](#) [285]

• **Vermont (1)**

**Omni Measurement Systems, Inc**

808 Hercules Drive

Colchester, VT 5446

Mark Harvie (802) 238-9634

15-1-H4.01-8817 JSC

[In-Suit Waste Management Technologies](#) [286]

• **Virginia (31)**

**Aerospace Innovations, LLC**

4822 George Washington Memorial Highway, Suite 200

Yorktown, VA 23692

Dung Nguyen (757) 875-5144

15-1-A3.02-8996 ARC

[Application of Imaging Sensors for UAS Command and Control for Evolving Towards Autonomous Operations of UAS](#) [287]

**Analytical Mechanics Associates, Inc.**

21 Enterprise Parkway, Suite 300

Hampton, VA 23666

Jamie Garrett (757) 865-0000

15-1-H5.01-8958 LaRC

[X-Boom](#) [288]

**Barron Associates, Inc.**

1410 Sagem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

15-1-A2.02-9086 AFRC

[Development and Flight Testing of an Automated Upset Recovery System](#) [289]

**Coherent Applications, Inc.**

20 Research Drive, Suite 500

Hampton, VA 23666

Diego Pierrottet (757) 927-5556

15-1-S4.01-9888 JPL

[Terminal Descent Lidar System](#) [290]

**Concepts to Systems, Inc.**

500 Stinson Drive

Danville, VA 24540

Lena Lee (310) 850-1594

15-1-H5.03-9735 LaRC

[Metamaterials-Inspired Aerospace Structures \(MIAS\)](#) [291]

**Crown Consulting, Inc.**

1400 Key Boulevard, Suite 1100

Arlington, VA 22209

Robert Ramseth (703) 593-0663

15-1-A3.02-9153 ARC

[Verification & Validation of Complex Autonomy Concepts Using the Cloud](#) [292]

**Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

15-1-S1.03-9811 JPL

[Spaceflight 2 um Tm Fiber MOPA Amplifier](#) [293]

**Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

15-1-S1.01-9810 LaRC

[3D Imaging Cubesat Lidar for Asteroid and Planetary Sciences](#) [294]

**Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

15-1-S1.01-9914 LaRC

[Novel Solid State Lasers for Space-Based Water Vapor DIAL](#) [295]

**GeneSiC Semiconductor, Inc.**

43670 Trade Center Place, Suite 155

Dulles, VA 20166

Ranbir Singh (703) 996-8200

15-1-S3.03-9258 GRC

[Rad-hard 1200 V SiC MOSFETs and Schottky Rectifiers for a 30 kW PPU](#) [296]

**International Scientific Technologies, Inc.**



P.O. Box 757

Dublin, VA 24084

Wanda Gibson (540) 633-1424

15-1-H11.01-8821 LaRC

[Hydrogen-rich Interpenetrating Polymer Networks for Radiation-Shield Structures](#) [297]

**International Scientific Technologies, Inc.**

P.O. Box 757

Dublin, VA 24084

Wanda Gibson (540) 633-1424

15-1-H11.01-8820 LaRC

[Hydrogenous Polymer-Regolith Composites for Radiation-Shielding Materials](#) [298]

**Materials Modification, Inc.**

2809-K Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

15-1-Z2.01-8616 MSFC

[Resin Infusion Fabrication of nanostructured PMC](#) [299]

**Materials Modification, Inc.**

2809-K Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

15-1-H3.03-8782 MSFC

[Multifunctional Dust Filters for Crew Cabin Air Purification](#) [300]

**Metron, Inc**

1818 Library Street

Reston, VA 20190

Seth Blackwell (703) 787-8700

15-1-A3.02-9414 ARC

[Anomaly Detection to Improve Airspace Safety and Efficiency](#) [301]

**Micro Harmonics Corporation**

1320 Ohio Street, Suite H-1

Waynesboro, VA 22980

David Porterfield (434) 409-4044

15-1-S1.02-9516 JPL

[Low-Loss Ferrite Components for NASA Missions](#) [302]

**Millennium Engineering and Integration Company**

2231 Crystal Drive, Suite 711

Arlington, VA 22202

Jackie Chewning (703) 855-1037

15-1-Z5.01-9196 ARC

[Momentum Device Actuated Canfield \(MoDAC\) Manipulator](#) [303]

**Mosaic ATM, Inc.**

540 Fort Evans Road, Suite 300

Leesburg, VA 20176

Chris Stevenson (540) 454-7458

15-1-A3.01-9583 ARC

[TFM Performance Monitoring and Review System](#) [304]

**Mosaic ATM, Inc.**

540 Fort Evans Road, Suite 300

Leesburg, VA 20176

Chris Stevenson (540) 454-7458

15-1-A3.02-9598 ARC

[Advanced Modeling of Ramp Operations including Departure Status at Secondary Airports](#) [305]

**Mosaic ATM, Inc.**

540 Fort Evans Road, Suite 300

Leesburg, VA 20176

Chris Stevenson (540) 454-7458

15-1-A3.02-9595 ARC

[Wind Shift Detection Model](#) [306]

**Mosaic ATM, Inc.**

540 Fort Evans Road, Suite 300

Leesburg, VA 20176

Chris Stevenson (540) 454-7458

15-1-A2.02-9594 AFRC

[Mission Planner for Dynamic Precision Based Navigation of Unmanned Aircraft Teams](#) [307]

**Mosaic ATM, Inc.**

540 Fort Evans Road, Suite 300

Leesburg, VA 20176

Chris Stevenson (540) 454-7458

15-1-A3.02-9593 ARC

[Probabilistic Trajectory Constraint Modeler](#) [308]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

15-1-H11.01-8870 LaRC

[High Hydrogen Thoraeus Rubber Gossamer Radiation Shielding for Human Protection](#) [309]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

15-1-A2.01-8865 AFRC

[High Sensitivity Semiconductor Sensor Skins for Multi-Axis Surface Pressure Characterization](#) [310]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

15-1-H4.02-9073 JSC

[Self-Healing, Self-Diagnosing Multifunctional Hybrid Sil Composites for EVA Space Suit Pressure Garment Systems](#) [311]

**Nuvotronics, LLC**

7586 Old Peppers Ferry Loop

Radford, VA 24141

Scott Meller (800) 341-2333

15-1-S1.02-9069 JPL

[Robust Microfabricated Interconnect Technologies: DC to THz](#) [312]

**Pancopia, Inc.**

1100 Exploration Way, Suite 302Q

Hampton, VA 23666

William Cumbie (757) 344-8607

15-1-H3.02-9111 KSC

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**Summit Information Solutions, Inc.**

11545 Nuckols Road, Suite B

Glen Allen, VA 23059

Shuganti Caradonna (804) 840-8477

15-1-Z6.01-9454 MSFC

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**SynaptiCAD Sales, Inc.**

605 Alleghany Street

Blacksburg, VA 24060

Donna Mitchell (540) 953-3390

15-1-S5.04-9895 JPL

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**Tao of Systems Integration, Inc.**

1100 Exploration Way

Hampton, VA 23666

Arun Mangalam (757) 220-5040

15-1-A2.01-9132 AFRC

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**Virginia Diodes, Inc.**

979 Second Street, Southeast

Charlottesville, VA 22902

Thomas Crowe (434) 297-3257

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• **Washington (6)**

**Okean Solutions, Inc**

1463 East Republican Street, 32A

Seattle, WA 98112

Ksenia Kolcio (310) 704-6174

15-1-S5.05-9897 ARC

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**Sequoia Scientific, Inc.**

2700 Richards Road

Bellevue, WA 98005

Yogesh Agrawal (425) 641-0944

15-1-S1.08-9386 ARC

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**Systema Technologies, Inc.**

10809 120th Avenue Northeast

Kirkland, WA 98033

Tom Prenzlou (425) 487-4020

15-1-S3.02-9325 GRC

[Miniaturized Lightweight Monopropellant Feed System for Nano- and Micro-satellites](#) [320]

**Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Russell Dula (425) 486-0100

15-1-H14.03-9324 MSFC

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**Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Rob Hoyt (425) 486-0100

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**Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

15-1-S3.06-9331 GSFC

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• **Wisconsin (1)**

**Madison CryoGroup, LLC**

8540 Greenway Boulevard, #203

Middleton, WI 53562

James Maddocks (608) 265-4246

15-1-H2.04-8862 GRC

[Pulsating Heat Pipe for Cryogenic Fluid Management](#) [324]

• **Wyoming (1)**

**Kennon Products, Inc.**

2071 North Main Street

Sheridan, WY 82801

Ronald Kensey (307) 751-1125

15-1-H4.01-9899 JSC

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