



Proposals Selected for Negotiation of Contracts

Expand All

- **Alabama (10)**

- **Arctic Slope Technical Services, Inc.**

- 289 Dunlop Blvd, Bldg 300

- Huntsville, AL 35824

- Joseph Sims (256) 562-2191

- 16-1-S3.02-8307 GRC

- [Multipulse Solid Rocket Motors for MAV](#) [1]

- **Arctic Slope Technical Services, Inc.**

- 289 Dunlop Blvd, Bldg 300

- Huntsville, AL 35824

- Joseph Sims (256) 562-2191

- 16-1-S2.03-8338 MSFC

- [Additive Manufacturing of Telescope Mirrors](#) [2]

- **Arctic Slope Technical Services, Inc.**

- 289 Dunlop Blvd, Bldg 300

- Huntsville, AL 35824

- Joseph Sims (256) 562-2191

- 16-1-S4.03-8335 JPL

- [Additively Manufactured Monolithic Catalyst Bed for Green Propellants](#) [3]

- **Arctic Slope Technical Services, Inc.**

- 289 Dunlop Blvd, Bldg 300

- Huntsville, AL 35824

- Joseph Sims (256) 562-2191

16-1-S3.02-8325 GRC

[Additively Manufactured Low Power Thrusters for Secondary Payloads](#) [4]

CFD Research Corporation

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

16-1-Z1.01-8436 GSFC

[Characterization and Mitigation of Radiation and High Temperature Effects in SiC Power Electronics](#) [5]

CFD Research Corporation

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

16-1-S3.02-8435 GRC

[Propellant Gelation for Green In-Space Propulsion](#) [6]

Plasma Processes, LLC

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

16-1-H2.02-7555 MSFC

[Joining of Tungsten Cermet Nuclear Fuel](#) [7]

Plasma Processes, LLC

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

16-1-S3.02-8312 GRC

[Green Monopropellant Propulsion for Small Spacecrafts](#) [8]

Research in Flight

1919 North Ash Court

Auburn, AL 36830

Roy Hartfield (334) 444-8523

16-1-A1.05-7521 LaRC

[Robust Prediction of High Lift Using Surface Vorticity](#) [9]

Scientific, Inc.

6700 Odyssey Drive, Suite 105

Huntsville, AL 35806

Gary Grant (256) 319-0858

16-1-S3.03-7534 GRC

[Development of Diamond Vacuum Differential Amplifier for Harsh Environment Power Electronics](#) [10]

• **Arizona (8)**

AdValue Photonics, Inc.

3440 East Britannia Drive, Suite 190

Tucson, AZ 85706

Shibin Jiang (520) 790-5468

16-1-S1.01-7292 LaRC

[Compact High Pulse Energy Single Frequency Fiber Amplifier](#) [11]

AdValue Photonics, Inc.

3440 East Britannia Drive, Suite 190

Tucson, AZ 85706

Shibin Jiang (520) 790-5468

16-1-S1.01-7291 LaRC

[Polarization Maintaining Ho-Doped Fiber Amplifier](#) [12]

Alphacore, Inc.

1616 East Main Street, Suite 221

Tucson, AZ 85203

Esko Mikkola (520) 647-4445

16-1-S1.02-7752 JPL

[RFI Mitigating Receiver Back End for Radiometers](#) [13]

Apre Instruments, LLC

2440 West Ruthrauff Road, Suite 100

Tucson, AZ 85745

Robert Smythe (860) 398-5764

16-1-S2.04-7976 GSFC

[Low Coherence Wavefront Probe for Nanometer Level Free-Form Metrology](#) [14]

Arizona Systems Engineering Group, LLC.

4572 South Avenida Paisano

Tucson, AZ 85746

Maria Flores (520) 665-9089

16-1-H10.02-8152 SSC

[Elimination of Rocket Ignition Side Loads](#) [15]

NP Photonics, Inc.

9030 South Rita Road

Tucson, AZ 85747

Linda Schadler (520) 405-9826

16-1-S1.01-8427 LaRC

[780 nm Single-Frequency Laser Source for High Spectral Resolution Lidar](#) [16]

Paragon Space Development Corporation

3481 East Michigan Street

Tucson, AZ 85714

Carole Leon (520) 382-4814

16-1-H2.04-8412 GRC

[Thermally Insulative Structural Connection for Cryogenic Propellant Tanks](#) [17]

ZONA Technology, Inc.

9489 East Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

16-1-A1.01-8122 LaRC

[Dynamic Flight Simulation Utilizing High Fidelity CFD-Based Nonlinear Reduced Order Model](#) [18]

- **Arkansas (1)**

- **Ozark Integrated Circuits, Inc.**

- 700 West Research Center Boulevard

- Fayetteville, AR 72701

- Anthony Francis (479) 575-1600

- 16-1-S4.04-7533 JPL

- [A Wide-Temperature Range Wire-Line Communication Link Using the NASA Glenn SiC JFET Technology](#) [19]

- **California (81)**

- **Acellent Technologies, Inc.**

- 835 Stewart Drive

- Sunnyvale, CA 94085

- Amrita Kumar (408) 745-1188

- 16-1-H5.03-7392 LaRC

- [Flexible Multifunctional Structural Health Monitoring Systems](#) [20]

- **Advanced Materials Applications**

- 19922 Pine Mountain Drive

- Groveland, CA 95321

- Kathleen Morse (408) 960-1474

- 16-1-S3.09-8388 GSFC

- [Resilient Affordable Cubesat Processor](#) [21]

- **Aeris Technologies, Inc.**

- 230D Twin Dolphin Drive

- Redwood City, CA 94065

- James Scherer (650) 620-9421

- 16-1-S1.07-7280 GSFC

- [Ultrasensitive Airborne Formaldehyde Monitor](#) [22]

Aerodyne Microsystems, Inc.

2374 Fosgate Avenue

Santa Clara, CA 95050

Justin Black (510) 316-4166

16-1-H14.01-8181 JSC

[MEMS-Based Sensor for Monitoring Cabin Air Quality on the ISS](#) [23]

Allcomp, Inc.

209 Puente Avenue

City of Industry, CA 91746

Wei Shih (626) 369-1273

16-1-H5.02-7447 LaRC

[Novel, Functionally Graded Coating System for Reusable, Very High Temperature Applications](#) [24]

AOSense, Inc.

929 East Arques Avenue

Sunnyvale, CA 94085

Jason Burke (408) 636-2643

16-1-H9.03-7387 GSFC

[Time Inter-Comparison Using Transportable Optical Combs](#) [25]

ATA Engineering, Inc.

13290 Evening Creek Drive South, Suite 250

San Diego, CA 92128

Joshua Davis (858) 480-2028

16-1-A1.02-8366 GRC

[Continuous-Scan Phased Array Measurement Methods for Turbofan Engine Acoustic Testing](#) [26]

ATA Engineering, Inc.

13290 Evening Creek Drive South, Suite 250

San Diego, CA 92128

Joshua Davis (858) 480-2028

16-1-A1.07-8365 GRC

[Improved Efficiency of Small Core Turbines through Tip Leakage and Secondary Flow Mitigation](#) [27]

ATA Engineering, Inc.

13290 Evening Creek Drive South, Suite 250

San Diego, CA 92128

Joshua Davis (858) 480-2028

16-1-S3.07-8574 GSFC

[Advanced Reentry Aeroheating Simulation Framework](#) [28]

ATAC

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Charles Winkleman (408) 736-2822

16-1-A3.02-8018 ARC

[Increasingly Autonomous Traffic Flow Management Under Uncertainty](#) [29]

Control Point Corporation

110 Castilian Drive, Suite 200

Goleta, CA 93117

Ed Marcarelli (805) 882-1884

16-1-H12.01-7824 JSC

[5D Task Analysis Visualization Tool](#) [30]

Deep Space Industries, Inc.

NASA Ames Research Park, Building 156, Suite 204

Moffett Field, CA 94035

David Gump (703) 623-9616

16-1-H1.01-7789 JSC

[Extruded Clay-Based Regoliths for Construction on Mars, Phobos and NEAs](#) [31]

Deployable Space Systems, Inc.

460 Ward Drive, Suite F

Santa Barbara, CA 93111

Brian Spence (805) 722-8090

16-1-H8.03-8031 GRC

[Affordable, Lightweight, Compactly Stowable, High Strength / Stiffness Lander Solar Array](#) [32]

Deployable Space Systems, Inc.

460 Ward Drive, Suite F

Santa Barbara, CA 93111

Brian Spence (805) 722-8090

16-1-H8.03-7723 GRC

[Foldable Compactly Stowable Extremely High Power Solar Array System](#) [33]

Deployable Space Systems, Inc.

460 Ward Drive, Suite F

Santa Barbara, CA 93111

Brian Spence (805) 722-8090

16-1-S3.01-7922 GRC

[Next-Generation Ultra-Compact Stowage/Lightweight Solar Array System](#) [34]

Empirical Systems Aerospace, Inc.

P.O. Box 595

Pismo Beach, CA 93448

Andrew Gibson (805) 275-1053

16-1-A1.05-7880 LaRC

[Physics-Based Conceptual Design Flying Qualities Analysis using OpenVSP and VSPAero](#) [35]

EOTRON, LLC

3516 Seagate Way, Suite 140

Oceanside, CA 92056

Ron Courtois (760) 815-3457

16-1-A2.02-8328 AFRC

[Compact High Power 3D LiDAR System for \(UAS\) Unmanned Aircraft Systems](#) [36]

Falkor Partners, LLC dba: Semicoa

333 McCormick Avenue

Costa Mesa, CA 92626

Brian Triggs (714) 242-3029

16-1-Z1.01-8210 GSFC

[A Novel Approach to Improving the Radiation Hardness of SiC Power Devices](#) [37]

Flight Works, Inc.

17905 Sky Park Circle, Suite F

Irvine, CA 92614

Eric Besnard (949) 387-9552

16-1-S3.02-7901 GRC

[Pump-Fed, Compact, High Performance Green Propulsion System for Secondary Payloads](#) [38]

Flight Works, Inc.

17905 Sky Park Circle, Suite F

Irvine, CA 92614

Eric Besnard (949) 387-9552

16-1-S3.02-7900 GRC

[Low Cost, Pump-fed, Non-Catalytic Thruster for Secondary Payload Green Propulsion](#) [39]

FOMS, Inc.

3525 Del Mar Heights Road, #236

San Diego, CA 92130

Ella Volfson (858) 382-7200

16-1-H14.01-7508 JSC

[Space Facility for Orbital Remote Manufacturing \(SPACEFORM\)](#) [40]

Freedom Photonics, LLC

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

16-1-S1.07-7358 GSFC

[Widely Tunable Semiconductor Laser at 1650nm for Greenhouse Gas LIDAR Detection](#) [41]

Freedom Photonics, LLC

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

16-1-A2.01-7475 AFRC

[Inexpensive, Rugged and Compact Tunable Laser with Simple Tuning Control for Airborne Fiber Optic Sensor \(FOS\) Interrogators](#) [42]

Global Aerospace Corporation

12981 Ramona Boulevard, Suite E

Irwindale, CA 91706

Kerry Nock (626) 960-8300

16-1-S3.06-8286 GSFC

[Titan Buoyant Atmospheric Glider](#) [43]

Hersh Acoustical Engineering, Inc.

22305 Cairnloch Street

Calabasas, CA 91302

Alan Hersh (818) 224-4699

16-1-A1.02-8281 GRC

[Validation of Standing Wave Liner Impedance Measurement Method](#) [44]

Higher Ground

2225 East Bayshore Road, Suite 2

Palo Alto, CA 94303

Rob Reis (650) 322-3958

16-1-A3.02-8237 ARC

[Innovation in the Sky](#) [45]

Innoflight, Inc.

9985 Pacific Heights Boulevard, Suite 250

San Diego, CA 92121

David Andaleon (858) 638-1580

16-1-S3.09-8581 GSFC

[Innoflight Middleware System \(IMS\)](#) [46]

Innoflight, Inc.

9985 Pacific Heights Boulevard, Suite 250

San Diego, CA 92121

David Andaleon (858) 638-1580

16-1-Z6.01-8580 LaRC

[Wireless Sensor Piconet Radio \(WiSPiR\)](#) [47]

Innosense, LLC

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

16-1-Z2.01-8287 JSC

[Modified Ionic Liquid-Based Phase Change Materials as Effective Heat Exchangers](#) [48]

Innosense, LLC

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

16-1-H3.01-8321 JPL

[Polymer Nanowire-Based Reversible, and Quasi Real-Time, Ethylene Analyzer](#) [49]

Intelligent Fiber Optic Systems Corporation

2363 Calle Del Mundo

Santa Clara, CA 95054

Behzad Moslehi (408) 565-9004

16-1-A2.01-8364 AFRC

[Optimal Realtime Damage Identification in Composite Structures](#) [50]

Intelligent Optical Systems, Inc.

2520 West 237th Street

Torrance, CA 90505

Reuben Sandler (424) 263-6305

16-1-H3.01-7755 JPL

[Compact Chemical Monitor for Spacecraft Water Recovery Systems](#) [51]

Iris AO, Inc.

2930 Shattuck Avenue, #304

Berkeley, CA 94705

Michael Helmbrecht (510) 849-2375

16-1-S2.01-7596 JPL

[1015 PTT Segment MEMS DM Development](#) [52]

Iris Technology Corporation

PO Box 15115

Irvine, CA 92623

Marguerite Slater (949) 975-8410

16-1-S1.09-7978 GSFC

[Deep Space Cryocooler System \(DSCS\)](#) [53]

Irvine Sensors Corporation

3001 Red Hill Avenue, B3-108

Costa Mesa, CA 92626

Daryl Smetana (714) 444-8760

16-1-S3.09-7277 GSFC

[Bringing 3D Memory Cubes to Space: a "Rad-Hard by Design Study" with an Open Architecture](#) [54]

Leiden Measurement Technology, LLC

751 Laurel Street, #344

San Carlos, CA 94087

Richard Quinn (650) 691-8573

16-1-S1.06-7136 JPL

[A Compact Fluorescence Lifetime Excitation-Emission Spectrometer \(FLEXEMS\) for Detecting Trace Organics](#) [55]

M4 Engineering, Inc.

4020 Long Beach Boulevard

Long Beach, CA 90807

Kevin Roughen (562) 981-7797

16-1-A1.01-7111 LaRC

[Reduced Order Nonlinear Dynamic Aeroservoelasticity](#) [56]

Makel Engineering, Inc.

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

16-1-S1.07-8008 GSFC

[High Temperature Chemical Sensor Array Payload For UAV Based In-situ Volcanic Gas Measurements](#) [57]

Makel Engineering, Inc.

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

16-1-A2.01-8005 AFRC

[Aircraft Chemical Sensor Arrays for Onboard Engine and Bleed Air Monitoring](#) [58]

Makel Engineering, Inc.

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

16-1-S4.04-7816 JPL

[High Temperature, Radiation Hard Electronics Architecture for a Chemical Sensor Suite for Venus Atmospheric Measurements](#) [59]

Masten Space Systems, Inc.

1570 Sabovich Street

Mojave, CA 93501

Katherine Rodway (310) 903-7543

16-1-H2.01-7120 GRC

[Additive Manufacturing Technology for a 25,000 lbf LOX/Methane Mars Ascent Engine](#) [60]

MetroLaser, Inc.

22941 Mill Creek Drive

Laguna Hills, CA 92653

Christina Arnold (949) 553-0688

16-1-A1.03-8199 GRC

[Spatially and Temporally Resolved Diagnostics of Dense Sprays Using Gated, Femtosecond, Digital Holography](#) [61]

MetroLaser, Inc.

22941 Mill Creek Drive

Laguna Hills, CA 92653

Christina Arnold (949) 553-0688

16-1-H7.02-8293 ARC

[Laser Scattering Diagnostic for Shock Front Arrival and Electron Number Density](#) [62]

MetroLaser, Inc.

22941 Mill Creek Drive

Laguna Hills, CA 92653

Christina Arnold (949) 553-0688

16-1-H10.02-8292 SSC

[Plume Velocimetry Diagnostic for Large Rocket Engines](#) [63]

MetroLaser, Inc.

22941 Mill Creek Drive

Laguna Hills, CA 92653

Christina Arnold (949) 553-0688

16-1-S1.07-8291 GSFC

[Optical System for Atmospheric Particle Measurement](#) [64]

Micro Cooling Concepts, Inc.

7522 Slater Avenue, #122

Huntington Beach, CA 92647

Jack Fryer (714) 847-9945

16-1-A1.07-7705 GRC

[Injector-Integrated Fuel-Air Heat Exchanger Module](#) [65]

Microtek, Inc.

10865 Rancho Bernardo Road, Suite 101

San Diego, CA 92127

Cheryl Epstein (858) 275-2113

16-1-S3.08-8037 MSFC

[Ultra-Compact Slow-Light Enhanced Multiband Spectral Interferometer](#) [66]

Nirvana Energy Systems, Inc.

3130 Alpine Road, Suite 288 PMB 6

Portola Valley, CA 94028

Lambertus Hesselink (415) 269-7102

16-1-S3.01-7259 GRC

[Thermoacoustic Radioisotope Generator \(TRG\)](#) [67]

Optical Coating Solutions, Inc.

2386 Grandview Drive

Camarillo, CA 93010

Carol Martinez (805) 482-1067

16-1-S1.08-8078 ARC

[Passive New UV Polarimeter for Remote Surface and Atmospheric Sensing](#) [68]

Optimal Synthesis, Inc.

95 First Street, Suite 240

Los Altos, CA 94022

Victor Cheng (650) 559-8585

16-1-A3.03-7366 ARC

[Plug-and-Play ATM-Centric Speech-Enabled Agent for SMART-NAS Testbed](#) [69]

Opto-Knowledge Systems, Inc. (OKSI)

19805 Hamilton Avenue

Torrance, CA 90502

Nahum Gat (310) 756-0520

16-1-A3.02-8204 ARC

[IR Beacon System for Assisted or Automated Landing of Aircraft](#) [70]

Opus 12, Inc.

2342 Shattuck Avenue, #820

Berkeley, CA 94704

Kendra Kuhl (650) 291-5614

16-1-H1.01-8191 JSC

[Compact In-Situ Polyethylene Production from Carbon Dioxide](#) [71]

Pacific Microchip Corporation

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Dalius Baranauskas (310) 940-3083

16-1-S1.02-7333 JPL

[20GSps 6-bit Low-Power Rad-Tolerant ADC](#) [72]

Parabilis Space Technologies, Inc.

1145 Linda Vista Drive

San Marcos, CA 92078

David Streich (855) 727-2245

16-1-S4.03-7586 JPL

[Novel Hybrid Propulsion System for Sample Return Missions](#) [73]

Physical Optics Corporation

1845 West 205th Street

Torrance, CA 90501

Gordon Drew (310) 320-3088

16-1-H13.02-8257 LaRC

[Penetrating Backscatter X-Ray Imaging System](#) [74]

Physical Optics Corporation

1845 West 205th Street

Torrance, CA 90501

Gordon Drew (310) 320-3088

16-1-H14.01-8449 JSC

[Orbital Fiber Optic Production Module](#) [75]

Physical Optics Corporation

1845 West 205th Street

Torrance, CA 90501

Gordon Drew (310) 320-3088

16-1-A1.08-8552 LaRC

[Plenoptic Attitude Monitoring System](#) [76]

RAM Photonics

4901 Morena Boulevard, Suite 128

San Diego, CA 92117

John Marciante (585) 771-7311

16-1-H9.01-7254 JPL

[Low-Power-Consumption Integrated PPM Laser Transmitter](#) [77]

Redondo Optics, Inc.

811 North Catalina Avenue, Suite 1100

Redondo Beach, CA 90277

Edgar Mendoza (310) 292-7673

16-1-S4.01-7274 JPL

[Distributed Embedded Fiber Optic Sensor \(EFISense\) SHM System](#) [78]

San Diego Composites, Inc.

9220 Activity Road

San Diego, CA 92126

Robert Kolozs (858) 751-0450

16-1-H5.03-7546 LaRC

[Non-Invasive Environmental Sensing System for Lifecycle Management \(NIEL\)](#) [79]

San Diego Composites, Inc.

9220 Activity Road

San Diego, CA 92126

Robert Kolozs (858) 751-0450

16-1-H13.01-7712 LaRC

[Algorithms for Structural Dynamics Based Fiber Optic Strain Gage Health Monitoring](#) [80]

Sensor Creations, Inc.

6609 Santa Rosa Road

Camarillo, CA 93012

Stefan Lauxtermann (805) 479-4708

16-1-S1.03-7310 JPL

[Novel Read-Out Integrated Circuit with Individual Pixel Programmability for Astronomy Infrared Focal Plane Arrays](#) [81]

Space Micro, Inc.

10237 Flanders Court

San Diego, CA 92121

David Strobel (858) 332-0700

16-1-S1.03-7356 JPL

[Compact, Low Power, Readout Electronics for KID Arrays](#) [82]

Space Propulsion Group, Inc.

1007 South Claremont Street

San Mateo, CA 94402

Arif Karabeyoglu (650) 799-1409

16-1-S4.03-7862 JPL

[Ignition Systems for Long-Term Storage and Multi-Start Capability](#) [83]

Stottler Henke Associates, Inc.

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2700

16-1-S5.04-8391 JPL

[Model Annotations and Tools for Teamwork, Execution, and Reuse \(MATTER\)](#) [84]

Stottler Henke Associates, Inc.

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2700

16-1-A2.02-8094 AFRC

[Smart COordination of UAV Teams \(SCOUT\)](#) [85]

Stottler Henke Associates, Inc.

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2700

16-1-H6.04-8395 ARC

[Multiple Failure Response Procedure System](#) [86]

Stottler Henke Associates, Inc.

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2700

16-1-H6.03-8394 ARC

[An Intelligent Consumables Management System Development Framework based on Artificial Intelligence Techniques](#) [87]

Swift Engineering, Inc.

1141 Via Callejon

San Clemente, CA 92673

Jonathan Faiella (949) 492-6608

16-1-S3.04-7968 GSFC

[UAS Flight Planning Tool for Atmospheric Energy Extraction](#) [88]

Swift Engineering, Inc.

1141 Via Callejon

San Clemente, CA 92673

Jonathan Faiella (949) 492-6608

16-1-S3.04-7657 GSFC

[Swift Ultra Long Endurance \(SULE\) Unmanned Air Vehicle \(UAV\)](#) [89]

Systems Technology, Inc.

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Suzie Fosmore (310) 679-2281

16-1-A1.05-8105 LaRC

[Defining Handling Qualities of Unmanned Aerial Systems](#) [90]

Systems Technology, Inc.

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Suzie Fosmore (310) 679-2281

16-1-Z5.01-8101 JSC

[The Station Manipulator Arm Augmented Reality Trainer](#) [91]

The Peregrine Falcon Corporation

1051 Serpentine Lane, Suite 100

Pleasanton, CA 94566

Robert Hardesty (925) 461-6800

16-1-H8.01-7759 GRC

[Liquid Interface Diffusion Bonding of FPS Heat Pipes to Core](#) [92]

The Peregrine Falcon Corporation

1051 Serpentine Lane, Suite 100

Pleasanton, CA 94566

Robert Hardesty (925) 461-6800

16-1-H8.01-7742 GRC

[Multi-Layer Radiation Shields](#) [93]

The Peregrine Falcon Corporation

1051 Serpentine Lane, Suite 100

Pleasanton, CA 94566

Robert Hardesty (925) 461-6800

16-1-S2.04-7737 GSFC

[Advanced X-ray Telescope Material System](#) [94]

Transition45 Technologies, Inc.

1739 North Case Street

Orange, CA 92865

Edward Chen (714) 283-2118

16-1-Z3.01-7170 MSFC

[Design and Manufacture of Pin Tools for Friction Stir Welding of Temperature-Resistant Materials](#) [95]

Tyvak Nano-Satellite System Inc

15265 Alton Parkway, Suite 200

Irvine, CA 92618

Austin Williams (480) 227-1113

16-1-S3.03-7199 GRC

[High Performance Configurable Electrical Power System for LEO Missions](#) [96]

Tyvak Nano-Satellite System Inc

15265 Alton Parkway, Suite 200

Irvine, CA 92618

Austin Williams (480) 227-1113

16-1-S3.05-7455 GSFC

[Arcsecond Pointing Stability on a CubeSat Platform](#) [97]

Valley Tech Systems, Inc.

160 Blue Ravine Road, Suite B

Folsom, CA 95630

Joseph Viola (916) 760-3603

16-1-S3.02-8262 GRC

[Mars Ascent Vehicle Reaction Control System](#) [98]

Ventions, LLC

1142 Howard Street

San Francisco, CA 94103

Amit Mehra (202) 213-2846

16-1-S4.03-8343 JPL

[Electric Pump Fed Propulsion for a Liquid Bipropellant Mars Ascent Vehicle](#) [99]

White Light Power, Inc.

149 Cuesta Drive

Los Altos, CA 94022

Eve Cohen (650) 492-0657

16-1-S1.02-7221 JPL

[Bulk GaN Schottky Diodes for Millimeter Wave Frequency Multipliers](#) [100]

- **Colorado (28)**

- **Advanced Seismic Instrumentation and Research**

- 1945 Delores Way

- Carbondale, CO 81623

- Peter Eric Malin (214) 934-0752

- 16-1-S1.06-8175 JPL

- [Lunar Borehole Seismometer](#) [101]

- **Altius Space Machines, Inc.**

- 3001 Industrial Lane, Unit #5

- Broomfield, CO 80020

- Jonathan Goff (801) 362-2310

- 16-1-H2.04-8454 GRC

- [Lightweight, High-Flow, Low Connection-Force, In-Space Cryogenic Propellant Coupling](#) [102]

- **Altius Space Machines, Inc.**

- 3001 Industrial Lane, Unit #5

- Broomfield, CO 80020

- Jonathan Goff (801) 362-2310

- 16-1-H1.01-8453 JSC

- [ISP3: In-Situ Printing Plastic Production System for Space Additive Manufacturing](#) [103]

- **Altius Space Machines, Inc.**

- 3001 Industrial Lane, Unit #5

- Broomfield, CO 80020

- Jonathan Goff (801) 362-2310

16-1-H5.01-8430 LaRC

[Solar Cube 2U: A Heliogyro Propulsion System for CubeSats](#) [104]

Aqwest, LLC

8276 Eagle Road

Larkspur, CO 80118

John Vetrovec (303) 681-0456

16-1-S1.01-7369 LaRC

[Blue Laser Based on Frequency-Quadrupled Tm:Lu2O3](#) [105]

Aqwest, LLC

8276 Eagle Road

Larkspur, CO 80118

John Vetrovec (303) 681-0456

16-1-S1.01-8531 LaRC

[1.5-Micron Amplifier for High-Average Power](#) [106]

Atmospheric & Space Technology Research Associates, LLC

5777 Central Avenue, Suite 221

Boulder, CO 80301

Gerald Thompson (303) 478-1780

16-1-S3.03-7556 GRC

[High Power CubeSat Control Sub-system \(HPoCCS\)](#) [107]

Beyond Photonics, LLC

1650 Coal Creek Drive, Unit B

Lafayette, CO 80026

Sammy Henderson (303) 396-8536

16-1-S1.01-7246 LaRC

[Compact 2-Micron Transmitter for Remote Sensing Applications](#) [108]

Beyond Photonics, LLC

1650 Coal Creek Drive, Unit B

Lafayette, CO 80026

Sammy Henderson (303) 396-8536

16-1-S1.07-7223 GSFC

[Compact Methane Sensing Lidar for Unmanned Aerial Vehicles](#) [109]

Black Swift Technologies LLC

2100 Central Avenue, Suite 102

Boulder, CO 80301

Jack Elston (720) 933-4503

16-1-S3.04-8077 GSFC

[A Ruggedized UAS for Scientific Data Gathering in Harsh Environments](#) [110]

Blue Sun Enterprise, Inc.

1942 Broadway Street, Suite 314

Boulder, CO 80302

Christopher Grasso (720) 394-8897

16-1-H9.02-7192 GRC

[Plug-In Architecture for Software-Defined Radios](#) [111]

Boulder Nonlinear Systems, Inc.

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

16-1-S2.03-7856 MSFC

[Phase Reconfigurable Nulling Interferometer](#) [112]

Composite Technology Development, Inc.

2600 Campus Drive, Suite D

Lafayette, CO 80026

Lori Bass (303) 664-0394

16-1-H5.01-7616 LaRC

[200W Deep Space CubeSat Composite Beam Roll-Up Solar Array \(COBRA\)](#) [113]

Environmental and Life Support Tech.

6600 East Lookout Drive

Parker, CO 80138

Clifford Jolly (303) 495-2090

16-1-H3.01-7294 JPL

[Silver Biocide Analysis & Control Device](#) [114]

Microelectronics Research Development Corporation

4775 Centennial Boulevard, Suite 130

Colorado Springs, CO 80919

Karen Van Cura (719) 531-0805

16-1-S4.04-8231 JPL

[Radiation Hardened High Speed Integrated Circuits SERDES I/O for Extreme Operating Environments](#) [115]

Pioneer Astronautics

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 980-0890

16-1-H1.01-8072 JSC

[Extraterrestrial Metals Processing](#) [116]

Reaction Systems, LLC

17301 West Colfax Avenue, #160

Golden, CO 80401

Todd Leeson (303) 881-7992

16-1-H4.02-8142 JSC

[Advanced Supported Liquid Membranes for Ammonia and Formaldehyde Control in Spacesuits](#) [117]

ROCCOR, LLC

500 South Arthur, Unit 300

Louisville, CO 80027

Doug Campbell (303) 200-0068

16-1-Z4.01-7700 MSFC

[Bonding and Analysis of Composite TRAC Booms for NASA Science Missions](#) [118]

ROCCOR, LLC

500 South Arthur, Unit 300

Louisville, CO 80027

Douglas Campbell (300) 200-0068

16-1-H5.01-7702 LaRC

[High Performance TRAC Boom for Solar Sails](#) [119]

ROCCOR, LLC

500 South Arthur, Unit 300

Louisville, CO 80027

Doug Campbell (303) 200-0068

16-1-S3.07-7701 GSFC

[Lightweight Flexible Thermal Energy Management Panels for CubeSats](#) [120]

Special Aerospace Services

3005 30th Street

Boulder, CO 80301

Heather Bulk (303) 625-1010

16-1-H10.01-7772 KSC

[Improved Test and Launch Operations](#) [121]

TDA Research, Inc.

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

16-1-H4.02-8047 JSC

[Advanced TCCS for Spacesuit Applications](#) [122]

TDA Research, Inc.

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

16-1-H1.01-8046 JSC

[Polyethylene Production from In-Situ Resources in Microchannel Reactors](#) [123]

TDA Research, Inc.

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

16-1-H7.01-7929 ARC

[High Char Flexible Polymers](#) [124]

Tendeg, LLC

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

16-1-S2.01-7911 JPL

[Robust Optical Edge for a Starshade Petal](#) [125]

Tendeg, LLC

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

16-1-S1.02-7322 JPL

[High Frequency Reflective Mesh for Small Aperture Antennas](#) [126]

Tendeg, LLC

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

16-1-S2.02-7091 JPL

[Solar Array for a Starshade Inner Disk](#) [127]

Tendeg, LLC

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

16-1-S2.02-8088 JPL

[Optical Shield for a Starshade Petal](#) [128]

• **Connecticut (8)**

Air-Lock, Inc.

Wampus Lane

Milford, CT 6460

Brian Battisti (203) 878-4691

16-1-H4.01-7875 JSC

[Dust Mitigation Strategies for High Pressure Oxygen QDs](#) [129]

Infinity Fuel Cell and Hydrogen, Inc.

431A Hayden Station Road

Windsor, CT 6095

William Smith (860) 688-6500

16-1-S3.04-7619 GSFC

[High Efficiency Advanced Lightweight Fuel Cell \(HEAL-FC\)](#) [130]

Precision Combustion, Inc.

410 Sackett Point Road

North Haven, CT 6473

Amit Kumar (203) 287-3700

16-1-H4.02-8157 JSC

[Novel, Vacuum-Regenerable Trace Contaminant Control System for Advanced Spacesuit Applications](#) [131]

Precision Combustion, Inc.

410 Sackett Point Road

North Haven, CT 6473

Amit Kumar (203) 287-3700

16-1-H8.02-8156 GRC

[Advanced Solid Oxide Cell Architecture and Materials for Durable, Regenerative Operation at Pressure](#) [132]

Qualtech Systems, Inc.

100 Corporate Place Suite 220

Rocky Hill, CT 6067

Marta Olenick (860) 761-9362

16-1-H6.04-8219 ARC

[Integrating ISHM with Flight Avionics Architectures for Cyber-Physical Space Systems](#) [133]

Qualtech Systems, Inc.

100 Corporate Place Suite 220

Rocky Hill, CT 6067

Marta Olenick (860) 761-9362

16-1-S5.05-8214 ARC

[Standardization of Fault Management Techniques and Activities with TEAMS](#) [134]

Qualtech Systems, Inc.

100 Corporate Place Suite 220

Rocky Hill, CT 6067

Marta Olenick (860) 761-9362

16-1-A1.06-8213 ARC

[Predictive Condition-Based Maintenance for Vertical Lift Vehicles](#) [135]

Supercool Metals, LLC

140 Ardmore Street

Hamden, CT 6517

Miriam Schroers (203) 747-0945

16-1-Z3.01-7643 MSFC

[Net Shaping of Multifunctional Bulk Metallic Glass Containers and Structures](#) [136]

• **Delaware (1)**

EM Photonics, Inc.

51 East Main Street, Suite 203

Newark, DE 19711

Victoria Miller (302) 456-9003

16-1-A2.01-7618 AFRC

[Automated Tools and Technologies for Enhancing Long-Range Imagery](#) [137]

- **District of Columbia (1)**

TGV Rockets, Inc.

2519 Benning Road Northeast

Washington, DC 20002

Chuck Burch (571) 426-3290

16-1-H2.01-8108 GRC

[Ultrasonic Additive Manufacturing for High Performance Combustion Chambers](#) [138]

- **Florida (4)**

Interdisciplinary Consulting Corporation

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Leonard Kubik (256) 960-9520

16-1-A1.02-7568 GRC

[Low Profile, Low Frequency, Adaptively-Tuned Acoustic Liner](#) [139]

Mainstream Engineering Corporation

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

16-1-S4.04-7385 JPL

[Bidirectional Dual Active Bridge Power Converter for Spacecraft Power Systems](#) [140]

Prioria, Inc.

606 Southeast Depot Avenue

Gainesville, FL 32601

Christopher Jacobs (352) 505-2188

16-1-A1.01-7107 LaRC

[Distributed Sensing, Computing, and Actuation Architecture for Aeroservoelastic Control](#) [141]

R Cubed Engineering, LLC

4103 11th Street Court West, Unit #203

Palmetto, FL 34221

RaNae Contarino (202) 271-9698

16-1-A3.02-8235 ARC

[Avionic for Low Altitude High Density SUAS - Dynamic Configurable Dual ADS-B with Interrogation](#) [142]

• **Georgia (2)**

Helicity Technologies

3655 James Road, Suite 110

Acworth, GA 30102

Viktorina Wang (770) 403-5549

16-1-A1.09-7646 GRC

[Durable Icephobic Cellulose Nanopaper Composite for Aircraft Icing Mitigation](#) [143]

MicroCoating Technologies

1824 Willow Trail Parkway

Norcross, GA

Angie Everett (404) 213-7208

16-1-H3.02-7564 ARC

[A Novel Cleaning Technology for Spacecraft Habitat](#) [144]

• **Hawaii (2)**

Fantom Materials, Inc.

3038 Aukele Street

Lihue, HI 96766

William Fischer (570) 899-4191

16-1-S2.03-8014 MSFC

[Ultra-Stable Zero-CTE HoneySiC and H2CMN Mirror Support Structures](#) [145]

WxOps, Inc.

500 Ala Moana Blvd Suite 400

Honolulu, HI 96813

Scott Shipley (571) 309-6024

16-1-A3.03-7315 ARC

[Integration of 4D Airline Operation Control Systems into NextGen and the NAS](#) [146]

• **Illinois (15)**

Applied Material Systems Engineering, Inc. (AMSENG)

2309 Pennsbury Court

Schaumburg, IL 60194

Mukund Deshpande (630) 372-9650

16-1-S3.07-8451 GSFC

[Next Generation Thermal Management Materials: Boron Arsenide for Isotropic Diamond Like Thermal Conductivity - Affordable BAs Processing Innovations](#) [147]

CU Aerospace, LLC

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 721-1703

16-1-H9.03-8310 GSFC

[NonLinear Parallel OPTimization Tool](#) [148]

CU Aerospace, LLC

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 239-1703

16-1-S3.02-7888 GRC

[Monofilament Vaporization Propulsion \(MVP\) System](#) [149]

CU Aerospace, LLC

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 239-1703

16-1-H2.04-8027 GRC

[Microcapillary Recuperative Heat Exchanger \(MRHX\)](#) [150]

CU Aerospace, LLC

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 239-1703

16-1-A1.04-8270 LaRC

[Cyclotronic Plasma Actuator with Arc-Magnet for Active Flow Control](#) [151]

EPIR, Inc.

590 Territorial Drive

Bolingbrook, IL 60440

Silviu Velicu (630) 771-0203

16-1-S1.03-8095 JPL

[VIS-NIR Lightweight Spectrometer for the Sun and the Moon](#) [152]

Industrial Measurement Systems Inc.

2760 Beverly Drive, Unit 4

Aurora, IL 60502

Donald Yuhas (630) 236-5901

16-1-Z3.01-8477 MSFC

[Real-Time Thermal Stir Weld Temperature Monitor](#) [153]

Microengineered Metals, Inc.

1808 Country Hills Drive

Yorkville, IL 60560

Susan Wilson (740) 277-9610

16-1-A1.09-8557 GRC

[In-Flight Ice Accretion Hazard Mitigation with Low Surface Roughness Aluminum Airfoil](#) [154]

MicroLink Devices, Inc.

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 920-9705

16-1-S3.01-8512 GRC

[High Energy Long Life Betavoltaic Battery](#) [155]

MicroLink Devices, Inc.

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 588-3001

16-1-S3.04-7152 GSFC

[Solar Powered Long Endurance Small UAS](#) [156]

MicroLink Devices, Inc.

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 588-3001

16-1-H8.03-8153 GRC

[38% Efficient Low-Cost Six-Junction GaAs/InP Solar Cells Using Double Epitaxial Lift-Off](#) [157]

Optonet, Inc.

828 Davis Street, Suite 206

Evanston, IL 60201

Yingyan Huang (847) 722-6980

16-1-H9.01-7422 JPL

[200Gb/s WDM Optical Transceiver Chip Modules with RF Transmission, Quadrature Modulation and Fail-Safe Capabilities](#) [158]

Serionix

60 Hazelwood Drive

Champaign, IL 61820

James Langer (651) 503-3930

16-1-H4.02-7354 JSC

[Fiber-Based Adsorbents Tailored for PLSS Ammonia and Formaldehyde Removal](#) [159]

Sivananthan Laboratories, Inc.

590 Territorial Drive, Unit H

Bolingbrook, IL 60440

Christoph Grein (630) 226-0086

16-1-S1.03-7414 JPL

[Hydrogenation of Very Long Wavelength Infrared Focal Plane Arrays Based on Type II Superlattices](#) [160]

Tetra Research Corporation

420 Park Avenue West

Princeton, IL 61356

Rex Chamberlain (815) 872-0702

16-1-H10.02-7667 SSC

[Robust Cryogenic Cavitation Modeling for Propulsion Systems Ground Test Facilities](#) [161]

• **Indiana (2)**

Techshot, Inc.

7200 Highway 150

Greenville, IN 47124

Mark Deuser (812) 923-9591

16-1-H14.01-7565 JSC

[Sintered Inductive Metal Printer with Laser Exposure](#) [162]

Victor Technologies, LLC

P.O. Box 7706

Bloomington, IN 47407

Harold Sabbagh (812) 360-3645

16-1-H13.01-8500 LaRC

[Electromagnetic Models and Software for the Nondestructive Evaluation of Carbon Nanotube Based Composites](#) [163]

• **Kansas (2)**

KALSCOTT Engineering, Inc.

PO Box 3426

Lawrence, KS 66046

Suman Saripalli (785) 979-1116

16-1-A3.02-7176 ARC

[SDR-Based MicroADS-B for Low Altitude Small UAS Operations](#) [164]

KALSCOTT Engineering, Inc.

PO Box 3426

Lawrence, KS 66046

Suman Saripalli (785) 979-1116

16-1-A3.02-7644 ARC

[Autonomous Air Traffic Reporting and Operations for UAS](#) [165]

• **Kentucky (1)**

Apiq Semiconductor, LLC

204 South Floys Street

Louisville, KY 40202

Robert Hickman (908) 303-3182

16-1-S3.03-7462 GRC

[Monolithic Power Integrated Circuits for Merging Power Electronics, Management, and Distribution](#) [166]

• **Maine (1)**

Wizbe Innovations, LLC

167 Kerns Hill Road

Manchester, ME 4351

Stan Farrell (207) 485-5690

16-1-S3.04-7731 GSFC

[Airfoil Controlled Glide and Directional Control](#) [167]

• **Maryland (14)**

Advanced Fluidics, LLC

4217 Red Bandana Way

Ellicott City, MD 21042

Surya Raghu (443) 864-5295

16-1-A1.03-7624 GRC

[Fluidic Fuel Flow Modulation for Active Combustion Control](#) [168]

Advanced Fluidics, LLC

4217 Red Bandana Way

Ellicott City, MD 21042

Surya Raghu (443) 864-5295

16-1-A1.04-7670 LaRC

[Colliding-Jet Fluidic Actuators for Active Flow Control](#) [169]

Brimrose Technology Corporation

P.O. Box 616, 19 Loveton Circle

Sparks, MD 21152

Diane Murray (936) 588-6901

16-1-S1.06-7773 JPL

[Compact Raman Spectrometer For In-Situ Planetary Chemistry](#) [170]

CoolCAD Electronics, LLC

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 529-9517

16-1-S1.04-7518 GSFC

[Single Chip EUV, VUV and Deep UV Photodetector System with Integrated Amplifier](#) [171]

CoolCAD Electronics, LLC

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 529-9517

16-1-Z1.01-8032 GSFC

[Improving the Response of Silicon Carbide Devices to Cosmic Radiation](#) [172]

Intelligent Automation, Inc.

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

16-1-A1.01-7636 LaRC

[Reduced Order Modeling for Aeroservoelastic Control and Analysis \(RACA\)](#) [173]

Intelligent Automation, Inc.

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

16-1-A2.02-7634 AFRC

[Safety Analysis For Evaluating \(SAFE\) sUAS](#) [174]

Intelligent Automation, Inc.

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

16-1-A3.01-7633 ARC

[Stakeholder Web-based Interrogable Federated Toolkit \(SWIFT\)](#) [175]

Intelligent Automation, Inc.

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

16-1-A3.03-7631 ARC

[DAAS: Data Analytics for Assurance of Safety](#) [176]

QuickSilver Analytics, Inc.

1371 Brass Mill Rd, Suite E

Belcamp, MD 21017

Rodney Hudson (410) 676-4300

16-1-H3.01-8576 JPL

[Innovative Microbial Surface Sampler](#) [177]

Robust Analytics

2053 Liza Way

Gambrills, MD 21054

Peter Kostiuk (410) 980-3667

16-1-A3.03-7425 ARC

[Monitoring Real-Time NAS Safety with State-Dependent Risk Models](#) [178]

VorCat, Inc.

22828 Styles Street

Woodland H, MD 91367

Jacob Krispin (240) 498-6150

16-1-A1.04-8579 LaRC

[Analysis of Active Flow Control Concepts Using the 3D LES VorCat Software](#) [179]

X-wave Innovations, Inc.

407 Upshire Circle

Gaithersburg, MD 20878

Dan Xiang (301) 948-8351

16-1-A2.01-7589 AFRC

[A Battery Management and Control System using a Universal Reconfigurable Architecture for Extended Health of Batteries in Hybrid and/or All-Electric Propulsion Systems](#) [180]

X-wave Innovations, Inc.

407 Upshire Circle

Gaithersburg, MD 20878

Dan Xiang (301) 948-8351

16-1-H5.03-7485 LaRC

[A Low-Cost, Multi-Functional Sensor Network System for Intelligent Vehicle Health Assessments](#) [181]

• **Massachusetts (25)**

Aerodyne Research, Inc.

45 Manning Road

Billerica, MA 1821

David Nelson (978) 663-9500

16-1-S1.08-7939 ARC

[Real-Time Monitor of Clumped CO2 Isotope in Ambient Air](#) [182]

Aerodyne Research, Inc.

45 Manning Road

Billerica, MA 1821

John McManus (978) 663-9500

16-1-S1.07-7938 GSFC

[Miniaturized Airborne Instrument for N2O](#) [183]

Aerodyne Research, Inc.

45 Manning Road

Billerica, MA 1821

Jiri Cistecky (978) 932-0217

16-1-A1.03-8523 GRC

[Electrometric Aviation Soot Monitor](#) [184]

Aurora Flight Sciences Corporation

90 Broadway, 11th Floor

Cambridge, MA 2142

Scott Hart (617) 500-4892

16-1-A2.02-8065 AFRC

[Tool for Collaborative Autonomy](#) [185]

Barrett Technology, LLC

73 Chapel Street

Newton, MA 2458

David Wilkinson (617) 252-9000

16-1-S4.02-7665 JPL

[Miniature 70-W Brushless Motor-Controller for Compact Extraterrestrial-Based Actuation](#) [186]

Busek Company, Inc.

11 Tech Circle

Natick, MA 1760

Judy Budny (508) 655-5565

16-1-H8.01-7787 GRC

[A Novel Electrode Material for Thermionic Power Generation](#) [187]

Busek Company, Inc.

11 Tech Circle

Natick, MA 1760

Judy Budny (508) 655-5565

16-1-S3.02-7785 GRC

[1mN Electrospray Thruster with Safe Passive Propellant Delivery](#) [188]

Charles River Analytics, Inc.

625 Mount Auburn Street

Cambridge, MA 2138

Yvonne Fuller (617) 491-3474

16-1-H12.01-7378 JSC

[Task Analysis Data Processing and Enhanced Representations \(TAPER\)](#) [189]

FastCAP Systems Corporation

21 Drydock Avenue

Boston, MA 2210

John Cooley (857) 239-7500

16-1-S3.03-7420 GRC

[Ultracapacitor Based Power Supply for CubeSats](#) [190]

FastCAP Systems Corporation

21 Drydock Avenue

Boston, MA 2210

John Cooley (857) 239-7500

16-1-S3.06-7615 GSFC

[High Efficiency Hybrid Energy Storage Utilizing High Power Density Ultracapacitors For Long Duration Balloon Flights](#) [191]

JENTEK Sensors, Inc.

110-1 Clematis Avenue

Waltham, MA 2453

Joni Hatem (781) 373-9706

16-1-H7.01-7553 ARC

[Through-Thickness Health Monitoring of Thermal Protection Systems](#) [192]

MagiQ Technologies, Inc.

11 Ward Street

Somerville, MA 2143

Caleb Christensen (617) 661-8300

16-1-S3.08-7829 MSFC

[Fast-Light Enhanced Fiber Gyroscope](#) [193]

N2 Biomedical, LLC

One Patriots Park

Bedford, MA 1730

Eric Tobin (781) 325-0781

16-1-H3.02-8381 ARC

[Nano-Scale ZnO Coating for Reduction of Biofilm Formation](#) [194]

NANOLAB, INC

179 Bear Hill Road

Waltham, MA 2451

David Carnahan (781) 609-2722

16-1-H3.01-7869 JPL

[Real-Time Ethylene Sensor Based on Chemical Anisotropic Nanochannel Impedance Spectroscopy](#) [195]

Physical Sciences, Inc.

20 New England Business Center

Andover, MA 1810

David Green (978) 689-0003

16-1-S1.06-8301 JPL

[Miniature Integrated-Optic Trace-Gas Sensors for Off-World Science Missions](#) [196]

Polestar Technologies, Inc.

220-3 Reservoir Street

Needham Heights, MA 2494

Karen Carpenter (781) 449-2284

16-1-H3.01-7659 JPL

[Miniaturized Sensor Array Platform for Monitoring Calcium, Conductivity, and pH in Urine Brine](#) [197]

Q-Peak, Inc.

135 South Road

Bedford, MA 1730

David Green (978) 738-8146

16-1-S4.01-8277 JPL

[Ultra Compact Laser for 3D Imaging LIDAR](#) [198]

Radiation Monitoring Devices, Inc.

44 Hunt Street

Watertown, MA 2472

Jennifer Carey (617) 668-6811

16-1-S1.04-8039 GSFC

[High Efficiency Semiconductor Arrays for Hard X-Ray Imaging](#) [199]

Radiation Monitoring Devices, Inc.

44 Hunt Street

Watertown, MA 2472

Carmen Danforth (617) 668-6846

16-1-S1.04-8232 GSFC

[Large-Area, Solid-State Photomultiplier for Ultraviolet Detection](#) [200]

Radiation Monitoring Devices, Inc.

44 Hunt Street

Watertown, MA 2472

Mary Abud (617) 668-6809

16-1-S1.06-8099 JPL

[Radiation Tolerant Temperature-Invariant Scintillation Modules](#) [201]

Reactive Innovations, LLC

2 Park Drive, Unit 4

Westford, MA 1886

Michael Kimble (978) 692-4664

16-1-H1.01-8380 JSC

[Micro-Channel Reactor for Processing Carbon Dioxide to Ethylene](#) [202]

Reactive Innovations, LLC

2 Park Drive, Unit 4

Westford, MA 1886

Michael kimble (978) 692-4664

16-1-H2.02-7384 MSFC

[Electrolytic Method for Tungsten Coating of Uranium Oxide Spheres](#) [203]

Reactive Innovations, LLC

2 Park Drive, Unit 4

Westford, MA 1886

Michael Kimble (978) 692-4664

16-1-S4.05-8480 JPL

[Vapor Hydrogen Peroxide Sterilization System for Contamination Control](#) [204]

Superconducting Systems, Inc.

900 Middlesex Turnpike

Billerica, MA 1821

Shahin Pourrahimi (978) 935-2805

16-1-S1.09-7386 GSFC

[Low Loss Superconducting Magnets Operating at 15 - 40 K](#) [205]

Triton Systems, Inc.

200 Turnpike Road

Chelmsford, MA 1824

Collette Jolliffe (978) 856-4158

16-1-Z2.01-8489 JSC

[Variable Emissivity for Manned Spacecraft](#) [206]

- **Michigan (4)**

- **Cybernet Systems Corporation**

- 3741 Plaza Drive

- Ann Arbor, MI 48108

- Margaret Press (734) 668-2567

- 16-1-A2.02-8241 AFRC

- [Low SWaP-C FAA Compliant UAV Navigation](#) [207]

- **Michigan Aerospace Corporation**

- 1777 Highland Drive, Suite B

- Ann Arbor, MI 48108

- John Dodds (734) 975-8777

- 16-1-S1.01-7997 LaRC

- [Agile Etalon Filter for Differential Absorption LIDAR](#) [208]

- **Michigan Aerospace Corporation**

- 1777 Highland Drive, Suite B

- Ann Arbor, MI 48108

- John Dodds (734) 975-8777

- 16-1-S4.01-7996 JPL

- [Speed Sensor for Planetary EDL: "SPRY"](#) [209]

- **Picometrix, LLC**

- 2925 Boardwalk Drive

- Ann Arbor, MI 48104

- Marsha Gilbert (734) 864-5611

- 16-1-H13.02-7099 LaRC

- [Differential Terahertz Imaging Methods for Enhanced Detection of Subsurface Features, Flaws, and](#)

[Damage](#) [210]

- **Minnesota (4)**

- **Adventium Enterprises, LLC**

- 111 Third Avenue South, Suite 100

- Minneapolis, MN 55401

- Lindsey Hillesheim (612) 481-0533

- 16-1-Z5.01-8383 JSC

- [MonitAR](#) [211]

- **Architecture Technology Corporation**

- 9971 Valley View Road

- Eden Prairie, MN 55344

- Stephen Cross (952) 992-9243

- 16-1-A3.03-8048 ARC

- [Automated Real-Time Clearance Analyzer \(ARCA\)](#) [212]

- **Architecture Technology Corporation**

- 9971 Valley View Road

- Eden Prairie, MN 55344

- Stephen Cross (952) 992-9243

- 16-1-A3.01-8505 ARC

- [Integrated Multi-Mode Automation for Trajectory Based Operations](#) [213]

- **Emphysic, LLC**

- 5225 Nolan Drive

- Minnetonka, MN 55343

- Chris Coughlin (763) 744-6282

- 16-1-H13.01-8360 LaRC

- [Fault-Tolerant NDE Data Reduction Framework](#) [214]

- **Mississippi (1)**

Innovative Imaging and Research Corporation

Building 1103, Suite 140C

Stennis Space Center, MS 39529

Mary Pagnutti (228) 688-2452

16-1-H10.02-8302 SSC

[Color-XHDR - A Compact High-Speed Color Extreme High Dynamic Range Video Capability for Rocket Engine Testing](#) [215]

• **Missouri (1)**

InnovaPrep, LLC

132 East Main Street

Drexel, MO 64742

Ann Packerham (816) 619-3375

16-1-H3.01-7134 JPL

[Devices and Methods for Collection and Concentration of Air and Surface Samples for Improved Detection](#) [216]

• **Montana (6)**

ADVR, Inc.

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

16-1-S1.01-7855 LaRC

[Space-Hardened Seed Laser for Use in High Spectral Resolution Lidar Systems](#) [217]

Bridger Photonics, Inc.

2310 University Way, Building, 4-4

Bozeman, MT 59715

Lisa Bleile (406) 585-2774

16-1-S1.01-7662 LaRC

[High Power, Thermally Optimized Blue Laser for Lidar](#) [218]

Global Technology Enterprises, Inc.

13 Lariat Loop

Bozeman, MT 59715

Todd Johnson (406) 522-8027

16-1-H2.01-7193 GRC

[Diamond Copper Materials Based Solution for Improved Engine Performance](#) [219]

Resonon, Inc.

123 Commercial Drive

Bozeman, MT 59715

Michael Kehoe (406) 586-3356

16-1-S1.03-8518 JPL

[Lunar Spectral Irradiance Monitor](#) [220]

S&K Global Solutions, LLC

145 South Lake Crest, Suite 2

Polson, MT 59860

Mike Monahan (406) 745-5725

16-1-H6.02-8297 ARC

[cFS-Based Autonomous Requirements Testing Tool](#) [221]

S&K Global Solutions, LLC

145 South Lake Crest, Suite 2

Polson, MT 59860

Mike Monahan (406) 745-5725

16-1-S5.05-8295 ARC

[Fault Management Simulation and Visualization Tool](#) [222]

• **Nevada (1)**

Advanced Materials and Devices, Inc.

4750 Longley Lane, Suite #104

Reno, NV 89502

Faramarz Gordaninejad (775) 826-8868

16-1-H6.01-7276 JSC

[Fail-Safe, Controllable Liquid Spring/Damper System for Improved Rover Space Vehicle Mobility](#) [223]

- **New Hampshire (7)**

- **Creare, LLC**

- 16 Great Hollow Road

- Hanover, NH 3755

- Robert Kline-Schoder (603) 643-3800

- 16-1-S1.09-7871 GSFC

- [A 10 K Multistage Cryocooler with Very Low Vibration](#) [224]

- **Creare, LLC**

- 16 Great Hollow Road

- Hanover, NH 3755

- Robert Kline-Schoder (603) 643-3800

- 16-1-Z2.01-7864 JSC

- [Compact, Lightweight, Non-Venting, Phase-Change Heat Exchanger](#) [225]

- **Creare, LLC**

- 16 Great Hollow Road

- Hanover, NH 3755

- Robert Kline-Schoder (603) 643-3800

- 16-1-Z2.01-7858 JSC

- [Closed-Loop, Non-Venting Thermal Control for Mars EVA Suits](#) [226]

- **Creare, LLC**

- 16 Great Hollow Road

- Hanover, NH 3755

- Robert Kline-Schoder (603) 643-3800

- 16-1-S3.07-7413 GSFC

- [An Efficient, Reliable, Vibration-Free Refrigerant Pump for Space Applications](#) [227]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 643-3800

16-1-H2.04-7766 GRC

[A High Efficiency Cryocooler for In-Space Cryogenic Propellant Storage](#) [228]

NextGen Imaging Technologies, Inc

2 Golfview Road

Windham, NH 3087

Xiuhong Sun (603) 434-2338

16-1-S1.07-7253 GSFC

[Robotic Variable Interference Filter Imaging Spectrometer \(R-VIFIS\)](#) [229]

QmagiQ

22 Cotton Road, Unit H, Suite 180

Nashua, NH 3063

Mani Sundaram (603) 821-3092

16-1-S1.03-8513 JPL

[Megapixel Longwave Infrared SLS FPAs for High Spatial Resolution Earth Observing Missions](#) [230]

• **New Jersey (2)**

NEI Corporation

201 Circle Drive North, Suite 102/103

Piscataway, NJ 8873

Ganesh Skandan (732) 868-3141

16-1-A1.09-8166 GRC

[Performance Enhancement of Deicing Systems with the Use of an Anti-Ice Nano-Coating](#) [231]

NEI Corporation

201 Circle Drive North, Suite 102/103

Piscataway, NJ 8873

Ganesh Skandan (732) 868-3141

16-1-H8.04-8164 GRC

[High Energy Density Li-Ion Batteries Enabled By a New Class of Cathode Materials](#) [232]

- **New Mexico (7)**

- **Applied Technology Associates**

- 1300 Britt Street Southeast

- Albuquerque, NM 87123

- Tom Edmondson (505) 767-1214

- 16-1-S3.05-8104 GSFC

- [DRG-Based CubeSat Inertial Reference Unit \(DCIRU\)](#) [233]

- **LoadPath**

- 2309 Renard Place Southeast, Suite 101

- Albuquerque, NM 87108

- Adam Biskner (866) 411-3131

- 16-1-H5.01-8169 LaRC

- [Structural Origami Array \(SOAR\)](#) [234]

- **Metis Technology Solutions, Inc.**

- 2309 Renard Place SE, Ste 200

- Albuquerque, NM 87106

- Joy Colucci (650) 207-9378

- 16-1-A3.03-7397 ARC

- [Intelligent Information Processing for Enhanced Safety in the NAS](#) [235]

- **STAR Cryoelectronics, LLC**

- 25-A Bisbee Court

- Santa Fe, NM 87508

- Robin Cantor (505) 424-6454

- 16-1-H9.01-8402 JPL

- [Superconducting Magnesium Diboride Thin Films for Ground Receiver Detectors](#) [236]

- **STAR Cryoelectronics, LLC**

25-A Bisbee Court

Santa Fe, NM 87508

Robin Cantor (505) 424-6454

16-1-S1.03-7569 JPL

[High-Temperature Superconducting Thin Films for IR Detectors](#) [237]

Ultra Safe Nuclear Corporation

186 Piedra Loop

Los Alamos, NM 87544

Paolo Venneri (858) 342-4837

16-1-H2.02-8468 MSFC

[Accident Tolerant Reactor Shutdown for NTP Systems](#) [238]

XL Scientific, LLC

6100 Uptown Boulevard Northeast, Suite 260

Albuquerque, NM 87110

Susan Haverland (505) 244-8502

16-1-H11.01-7730 LaRC

[Process and Tool Innovation for CAD Integration with OLTARIS](#) [239]

• **New York (9)**

Clear Science Corporation

663 Owego Hill Road, PO Box 233

Harford, NY 13784

Henry Carlson (607) 844-9171

16-1-A1.01-8553 LaRC

[Physics-based Models for Aeroservoelasticity Prediction and Control](#) [240]

Honeybee Robotics, Ltd.

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Kris Zacny (510) 207-4555

16-1-S4.02-7456 JPL

[Planetary Vacuum Cleaner for Venus and Mars](#) [241]

Honeybee Robotics, Ltd.

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Kris Zacny (510) 207-4555

16-1-H6.01-7532 JSC

[The Stinger: A Geotechnical Sensing Package for Robotic Scouting on a Small Planetary Rover](#) [242]

Honeybee Robotics, Ltd.

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Jason Herman (646) 459-7819

16-1-H5.04-7952 LaRC

[Strut Attachment System for In-Space Robotic Assembly](#) [243]

Honeybee Robotics, Ltd.

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Jason Herman (646) 459-7819

16-1-H4.01-7953 JSC

[Dust-Tolerant, High Pressure Oxygen Quick Disconnect for Advanced Spacesuit and Airlock Applications](#) [244]

Honeybee Robotics, Ltd.

Building 3, Suite 1005 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Andrew Maurer (720) 491-5560

16-1-S4.04-7401 JPL

[High Temperature Joint Actuator](#) [245]

Mohawk Innovative Technology, Inc.

1037 Watervliet-Shaker Road

Albany, NY 12205

James Walton (518) 862-4290

16-1-H8.01-7293 GRC

[High Speed Closed Brayton Cycle Turboalternator](#) [246]

OptiPro Systems, LLC

6368 Dean Parkway

Ontario, NY 14519

Tim Ansaldi (585) 265-0160

16-1-S2.04-7686 GSFC

[UltraForm Finisher Optical Mandrel Fabrication](#) [247]

Reflective X-ray Optics, LLC

1361 Amsterdam Avenue, Suite 3B

New York, NY 10027

David Windt (347) 850-2212

16-1-S2.04-8306 GSFC

[Zero Net-Stress, Non-Distorting Iridium Coatings for Thin-Shell X-ray Telescope Mirrors](#) [248]

• **North Carolina (1)**

New Jersey Microsystems, Inc.

107 McCleary Ct

Raleigh, NC 27607

William Carr (973) 293-1450

16-1-Z6.01-7431 LaRC

[Multi-Use Passive RFID Sensor Tag System for NASA](#) [249]

• **Ohio (16)**

Advanced Numerical Solutions LLC

3554 Mark Twain Court

Hilliard, OH 43026

Sandeep Vijayakar (614) 771-4861

16-1-A1.06-8494 ARC

[Distributed Contact Solver for 3D Dynamics Simulation of Drive Systems with Defects](#) [250]

Advratech LLC

714 East Monument Avenue

Dayton, OH 45402

Tim Sparling (937) 412-1208

16-1-Z3.01-7698 MSFC

[Selective Laser Ablation and Melting](#) [251]

Converter Source, LLC

16922 South Canaan Road

Athens, OH 45701

James Huth (740) 331-4751

16-1-H2.04-7770 GRC

[Innovative Stirling-Cycle Cryocooler for Long Term In-Space Storage of Cryogenic Liquid Propellants](#) [252]

Cornerstone Research Group, Inc.

2750 Indian Ripple Road

Dayton, OH 45440

Chrysa Theodore (937) 320-1877

16-1-H5.01-8115 LaRC

[Electrically Activated Shape Memory Composite Deployable Boom](#) [253]

Cornerstone Research Group, Inc.

2750 Indian Ripple Road

Dayton, OH 45440

Chrysa Theodore (937) 320-1877

16-1-H5.04-8148 LaRC

[Reclaimable Thermally Reversible Polymers for AM Feedstock](#) [254]

Cornerstone Research Group, Inc.

2750 Indian Ripple Road

Dayton, OH 45440

Chrysa Theodore (937) 320-1877

16-1-H8.04-8147 GRC

[Advanced Lithium Sulfur Battery](#) [255]

Faraday Technology, Inc.

315 Huls Drive

Englewood, OH 45315

Jennings Taylor (937) 836-7749

16-1-H3.02-8508 ARC

[Electrochemical Peroxide Generation](#) [256]

Innovative Scientific Solutions, Inc.

7610 McEwen Road

Dayton, OH 45459

Larry Goss (937) 630-3012

16-1-A1.08-7805 LaRC

[Development of an Elastomeric Force Balance](#) [257]

N&R Engineering

6659 Pearl Road, #201

Parma Heights, OH 44130

Vinod Nagpal (440) 845-7020

16-1-A1.07-8448 GRC

[Design Concepts for Low Aspect Ratio High Pressure Turbines for High Bypass Ratio Turbofans](#) [258]

N&R Engineering

6659 Pearl Road, #201

Parma Heights, OH 44130

Vinod Nagpal (440) 845-7020

16-1-A1.07-8447 GRC

[Fan Duct Heat Exchanger for Turbine Cooling Air](#) [259]

NexTech Materials, Ltd.

404 Enterprise Drive

Lewis Center, OH 43035

Andrew Patton (614) 842-6606

16-1-H8.02-8171 GRC

[Methane-Oxygen Solid Oxide Fuel Cell System](#) [260]

Nu Waves, Ltd.

122 Edison Drive

Middletown, OH 45044

Jeff Wells (513) 360-0800

16-1-S3.04-8085 GSFC

[High-Efficiency Power Amplifier for Over-the-Horizon Communications \(HYPERION\)](#) [261]

Powdermet, Inc.

24112 Rockwell Drive

Euclid, OH 44117

Marilyn Rhoades (330) 671-1445

16-1-S3.09-7445 GSFC

[Microstructure Gradient-Z Composite for Additive Manufacture of Radiation Shielding](#) [262]

Spectral Energies, LLC

5100 Springfield Street, Suite 301

Dayton, OH 45431

Sukesh Roy (937) 902-6546

16-1-A1.04-7639 LaRC

[Flow Control on a High Lift Airfoil Using High-Bandwidth Microactuators](#) [263]

Spectral Energies, LLC

5100 Springfield Street, Suite 301

Dayton, OH 45431

Sivaram Gogineni (937) 266-9570

16-1-A1.08-8296 LaRC

[High-Repetition-Rate Interferometric Rayleigh Scattering for Velocity, Density, and Temperature Meas](#) [264]

Spectral Energies, LLC

5100 Springfield Street, Suite 301

Dayton, OH 45431

Sukesh Roy (937) 902-6546

16-1-A1.02-7604 GRC

[Advanced Analytical Tools for the Characterization of Fundamental Jet Noise Sources and Structures](#) [265]

- **Oklahoma (1)**

Amethyst Research, Inc.

123 Case Circle

Ardmore, OK 73401

Rob Kuester (580) 657-2575

16-1-S1.07-7494 GSFC

[Compact, Robust, Low Power High Sensitivity Gas Sensor](#) [266]

- **Oregon (6)**

e-beam, Inc.

21070 Southwest Tile Flat Road

Beaverton, OR 97007

Bernard Vancil (503) 628-0703

16-1-S1.02-8137 JPL

[Ka-Band Klystron Amplifier for CUBESATs](#) [267]

IRPI, LLC

7929 Southwest Burns Way, Suite A

Wilsonville, OR 97070

Ryan Jenson (503) 545-2501

16-1-H2.04-7581 GRC

[Bubble Free Cryogenic Liquid Acquisition Device](#) [268]

The Innovation Laboratory, Inc.

2360 Southwest Chelmsford Avenue

Portland, OR 97201

Michelle Camarda (503) 242-1761

16-1-A3.02-7738 ARC

[Landside-Aware Air Traffic Management](#) [269]

The Innovation Laboratory, Inc.

2360 Southwest Chelmsford Avenue

Portland, OR 97201

Michelle Camarda (503) 242-1761

16-1-A3.01-7346 ARC

[Integrated Technologies Supporting Seamless Oceanic Transitions](#) [270]

Voxtel, Inc.

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

16-1-S4.01-7330 JPL

[Robust, Low SWAP Planetary Entry, Descent and Landing System](#) [271]

Voxtel, Inc.

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

16-1-S1.03-7328 JPL

[Robust, Wafer-level 3D Electrical Interconnect Technology](#) [272]

• **Pennsylvania (7)**

Advanced Cooling Technologies, Inc.

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 295-6104

16-1-S3.07-8563 GSFC

[Loop Heat Pipe Manufacturing via DMLS for CubeSAT Applications](#) [273]

Advanced Cooling Technologies, Inc.

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 295-6104

16-1-S3.07-8558 GSFC

[Flexible Methane & Ethane Heat Pipes](#) [274]

Materials Research and Design, Inc.

300 East Swedesford Road

Wayne, PA 19087

Kerry Howren (610) 964-9000

16-1-H7.01-7145 ARC

[Evaluation of Alternative Carbon Fibers to Improve Joint Performance in 3D Woven Heatshields](#) [275]

Near Earth Autonomy, Inc.

5001 Baum Boulevard, Suite 750

Pittsburgh, PA 15213

Marcel Bergerman (412) 513-6110

16-1-A2.02-7580 AFRC

[Autonomous Contingency Detection and Reaction for Unmanned Aircraft](#) [276]

Nokomis, Inc.

310 5th Street

Charleroi, PA 15022

Gena Johnson (724) 483-3946

16-1-A3.02-7084 ARC

[Hiawatha Aircraft Anti-Collision System](#) [277]

Nokomis, Inc.

310 5th Street

Charleroi, PA 15022

Gena Johnson (724) 483-3946

16-1-A2.01-7127 AFRC

[RF Emission-Based Health Monitoring for Hybrid and/or All Electric Aircraft Distributed Propulsion S](#) [278]

Protoinnovations,LLC

5453 Albemarle Avenue

Pittsburgh, PA 15217

Dimitrios Apostolopo (412) 916-8807

16-1-H6.01-7882 JSC

[Retractable Robotic Anchor for Hard Rock and Granular Soils](#) [279]

• **Texas (17)**

Apptronik

1512 West 29th Street

Austin, TX 78703

Luis Sentis (650) 906-1196

16-1-H6.01-8135 JSC

[Liquid Cooled Viscoelastic Actuation for Robust Legged Robot Locomotion](#) [280]

Carbon-Carbon Advanced Technologies, Inc.

4704 Eden Road

Kennedale, TX 76060

James Thompson (817) 985-2500

16-1-H5.02-7100 LaRC

[Extreme Temperature Stitched Structures](#) [281]

Continuum Analytics, Inc.

221 West 6th Street, Suite 1550

Austin, TX 78701

Ashley Baal (240) 446-4888

16-1-S5.03-7927 GSFC

[Open Source Parallel Image Analysis and Machine Learning Pipeline](#) [282]

Dexmat, Inc.

2429 Bissonnet Street

Houston, TX 77005

Alberto Goenaga (805) 895-8628

16-1-S3.03-7399 GRC

[Lightweight CNT Shielded Cables for Space Applications](#) [283]

Lynntech, Inc.

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

16-1-H8.02-8130 GRC

[An Advanced Anode Electrocatalysis Concept for Direct Methane SOFC Systems](#) [284]

Lynntech, Inc.

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

16-1-H12.02-8240 ARC

[SpaceDoc-Intelligent Health Management System for Astronauts](#) [285]

METECS

1030 Hercules Avenue

Houston, TX 77058

John MacLean (832) 476-8651

16-1-A2.01-7848 AFRC

[MATE: Modern Software Technology for Flight Test Automation and Orchestration](#) [286]

METECS

1030 Hercules Avenue

Houston, TX 77058

John MacLean (832) 476-8651

16-1-H10.01-7839 KSC

[mREST: Flexible Open Interface Standard for Test and Launch Operations](#) [287]

Nanohmics, Inc.

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Mike Mayo (512) 389-9990

16-1-H8.01-7513 GRC

[Thermal Energy Conversion](#) [288]

Photon Sciences, Inc.

4520 Savino Drive

Plano, TX 75093

Gary Evans (214) 207-9427

16-1-S5.01-7483 ARC

[A Low Power Terabit Laser-Modulator Array](#) [289]

Stellarray, Inc.

9210 Cameron Road, Suite 300

Austin, TX 78754

Mark Eaton (512) 997-7781

16-1-H12.03-8207 GRC

[Multi-Purpose X-ray System](#) [290]

Thin Red Line USA, dba of MKF Interests, LLC

1322 Space Park Drive, Suite B150

Houston, TX 77058

Gary Lantz (281) 910-5257

16-1-S3.06-7551 GSFC

[Adaptable Multi-Segment Altitude Control \(AM-SAC\) Balloon for Planetary Exploration](#) [291]

Tietronix Software, Inc.

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Victor Tang (281) 404-7222

16-1-H12.03-7975 GRC

[Novel Methods for the Flexible Ultrasound System utilizing Augmented Reality Just-In-Time Procedural](#)

[Guidance](#) [292]

TRAC Labs, Inc.

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

16-1-H6.03-7501 ARC

[Integrating Standard Operating Procedures with Spacecraft Automation](#) [293]

TRAC Labs, Inc.

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

16-1-A2.01-7500 AFRC

[Cloud-Based Electronic Test Procedures](#) [294]

TRAC Labs, Inc.

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

16-1-Z5.01-7920 JSC

[Context-Sensitive Augmented Reality for Mission Operations](#) [295]

Windhover Labs

2115 Castle Drive

League City, TX 77573

Mathew Benson (832) 640-4018

16-1-A2.02-7076 AFRC

[Core Flight Software for Unmanned Aircraft Systems](#) [296]

• **Utah (2)**

MotionPort, LLC

473 South River Road, Suite 1-182

Saint George, UT 84790

Brant Ross (435) 703-9195

16-1-H5.01-7830 LaRC

[Simulating CubeSat Structure Deployment Dynamics](#) [297]

Silicon Technologies, Inc.

4568 South Highland Drive, Suite 300

Holladay, UT 84117

Thomas Wolf (801) 913-4332

16-1-H4.03-7597 JSC

[Speaker Driver and Wireless Transceiver ASIC](#) [298]

• **Virginia (26)**

Analytical Mechanics Associates, Inc.

21 Enterprise Parkway, Suite 300

Hampton, VA 23666

Clara Anderson (757) 865-0000

16-1-H9.03-7096 GSFC

[Robust Trajectory Design in Highly Perturbed Environments Leveraging Continuation Methods](#) [299]

Applied University Research, Inc.

605 Preston Avenue

Blacksburg, VA 24060

Roger Simpson (540) 961-3005

16-1-A1.08-7188 LaRC

[Small Sub-Micron-Particle Position-Resolving Laser-Doppler Velocimeter for High-Speed Flows](#) [300]

AvMet Applications

AvMet Applications Incorporated

Reston, VA 20191

Mark Klopfenstein (703) 453-9192

16-1-A3.01-7729 ARC

[Weather Scenario Generator for ATM Simulation and Testing Systems](#) [301]

Barron Associates, Inc.

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

16-1-A2.01-7801 AFRC

[Runtime Assurance for Flight Test Research Aircraft](#) [302]

Barron Associates, Inc.

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

16-1-A2.02-7689 AFRC

[Self-Directed and Informed Forced-Landing System for UAV Avoidance of On-Ground Persons, Vehicles, and Structures](#) [303]

Barron Associates, Inc.

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

16-1-S3.04-7684 GSFC

[An Agile Aerial Sensor System Tailored for In-Situ Cloud Measurements](#) [304]

Barron Associates, Inc.

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

16-1-A2.02-7563 AFRC

[Run-Time Assurance for Safe UAS Operations with Reduced Human Oversight](#) [305]

Fibertek, Inc.

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

16-1-S1.01-8414 LaRC

[Spaceflight 1.94 micron Tm Fiber Laser Transmitter](#) [306]

Fibertek, Inc.

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

16-1-H9.01-8407 JPL

[High Speed Lasercom Signal Processing and Ground Station](#) [307]

GeneSiC Semiconductor, Inc.

43670 Trade Center Place, Suite 155

Dulles, VA 20166

Ranbir Singh (703) 996-8200

16-1-S3.03-7942 GRC

[Monolithically Integrated Rad-Hard SiC Gate Driver for 1200 V DMOSFETs](#) [308]

HyperV Technologies Corporation

13935 Willard Road

Chantilly, VA 20151

Franklin Witherspoon (703) 378-4882

16-1-H10.02-7439 SSC

[Fast Fiber-Coupled Imaging of X-Rays Events](#) [309]

Luna Innovations, Inc.

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

16-1-H5.03-7999 LaRC

[Integrated Structural Health Sensors for Inflatable Space Habitats](#) [310]

Luna Innovations, Inc.

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

16-1-A1.06-7988 ARC

[Rapid In-Place Composite Rotor Damage Detection](#) [311]

Luna Innovations, Inc.

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

16-1-H1.01-7981 JSC

[In-Situ Generation of Polymer Concrete Construction Materials](#) [312]

Luna Innovations, Inc.

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

16-1-S4.02-7734 JPL

[Miniaturized Interrogation System for Marsupial Rover Sensing Tether](#) [313]

Luna Innovations, Inc.

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

16-1-H7.01-8143 ARC

[Flexible Gap Filler for Ablative Thermal Protection Systems](#) [314]

Materials Modification, Inc.

2809-K Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

16-1-A1.09-7073 GRC

[Thin-Film Hybrid Coating for Ice Mitigation on Aircraft](#) [315]

Materials Modification, Inc.

2809-K Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

16-1-H3.02-7349 ARC

[Multipurpose Waste Disposal Bags for Heat Melt Compactor Application](#) [316]

Materials Modification, Inc.

2809-K Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

16-1-H8.04-7232 GRC

[Aerogel-Ionic Liquid Hybrid Electrolytes](#) [317]

MicroXact, Inc.

1750 Kraft Drive, Suite 1007

Blacksburg, VA 24060

Elena Kochergina (540) 394-4040

16-1-S1.05-7780 GSFC

[Deep UV Blocking Particle Filter](#) [318]

Mosaic ATM, Inc.

540 Fort Evans Road, Suite 300

Leesburg, VA 20176

Chris Stevenson (540) 454-7458

16-1-A3.01-7271 ARC

[Simulation-Based Tool for Traffic Management Training](#) [319]

Nanosonic, Inc.

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

16-1-H7.01-8243 ARC

[Flexible, High Char Yield Hybrid Sil Adhesive Materials for Next Generation Ablative Thermal Protection](#) [320]

Nanosonic, Inc.

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

16-1-H7.02-8111 ARC

[High Sensitivity, High Frequency Sensors for Hypervelocity Testing and Analysis](#) [321]

Nanosonic, Inc.

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

16-1-S1.08-8041 ARC

[Miniaturized Air Dropped Sensors for Environmental Monitoring of Heavy Metals in Water](#) [322]

Nuvotronics, LLC

7586 Old Peppers Ferry Loop

Radford, VA 24141

Scott Meller (800) 341-2333

16-1-S1.02-7872 JPL

[mmWave PolyStrata\(R\) High Power Compact Transceiver](#) [323]

Virginia Diodes, Inc.

979 Second Street, Southeast

Charlottesville, VA 22902

Thomas Crowe (434) 297-3257

16-1-S1.02-8474 JPL

[640 GHz Heterodyne Polarimeter](#) [324]

• **Washington (14)**

Eagle Harbor Technologies, Inc.

169 Western Avenue West, Suite 263

Seattle, WA 98119

Timothy Ziembra (206) 582-1240

16-1-H13.02-7827 LaRC

[Precision Eddy Current Sensor for Nondestructive Evaluation of Spacecraft Structures](#) [325]

Eagle Harbor Technologies, Inc.

169 Western Avenue West, Suite 263

Seattle, WA 98119

Timothy Ziemba (206) 582-1240

16-1-S4.05-7912 JPL

[Large-Area, Atmospheric Pressure Plasma Jet for Spacecraft Surface Sterilization for Planetary Protection](#) [326]

Kymeta Government Solutions

12277 134th Court Northeast

Redmond, WA 98052

Jessica Stefani (425) 658-8705

16-1-H9.02-7669 GRC

[Ka-Band Electronically Steered CubeSat Antenna](#) [327]

Luxel Corporation

60 Saltspring Drive, PO Box 1879

Friday Harbor, WA 98250

Dianne Hall (360) 378-4137

16-1-S1.05-8269 GSFC

[LENA Conversion Foils Using Single-Layer Graphene](#) [328]

M42 Technologies, LLC

8043 Ashworth Avenue North

Seattle, WA 98103

Nestor Voronka (206) 792-5852

16-1-S3.05-7207 GSFC

[RF Crosslink for Relative Navigation and Time/Frequency Distribution](#) [329]

Quest Integrated, LLC

19823 58th Place South, Suite 200

Kent, WA 98032

Vincent Fratello (480) 872-9500

16-1-H13.02-8093 LaRC

[Active Metamaterial Based Ultrasonic Guided Wave Transducer System](#) [330]

Quest Integrated, LLC

19823 58th Place South, Suite 200

Kent, WA 98032

Vincent Fratello (253) 480-2027

16-1-H13.02-7477 LaRC

[Printed Ultra-High Temperature NDE Sensors for Complex Structures](#) [331]

Sequoia Scientific, Inc.

2700 Richards Road

Bellevue, WA 98005

Maria Rotar (425) 641-0944

16-1-S1.08-7139 ARC

[Investigating an Instrument for Measurement of Hyperspectral Backscattering in Natural Waters](#) [332]

Sienna Technologies, Inc.

19501 144th Avenue North East, Suite F-500

Woodinville, WA 98072

Karen Valdastrì (425) 485-7272

16-1-H2.03-7641 GRC

[Long Life Cathode Heaters for Hollow Cathodes](#) [333]

Systema Technologies, Inc.

10809 120th Avenue Northeast

Kirkland, WA 98033

Taylor Banks (425) 487-4020

16-1-S3.02-7519 GRC

[Non-Catalytic Thruster for High Performance Advanced Monopropellant](#) [334]

Tethers Unlimited, Inc.

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

16-1-H6.01-7743 JSC

[Modular Advanced Networked Telerobotic Interface System \(MANTIS\)](#) [335]

Tethers Unlimited, Inc.

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

16-1-H9.02-7583 GRC

[OpenSWIFT-SDR for STRS](#) [336]

Tethers Unlimited, Inc.

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

16-1-H14.01-8013 JSC

[ERASMUS: Food Contact Safe Plastics Recycler and 3D Printer System](#) [337]

Tethers Unlimited, Inc.

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

16-1-S3.09-8009 GSFC

[3D Printed Composite-Z and Graded-Z Radiation Shields \(CoGZ-Rad\)](#) [338]

• **West Virginia (1)**

Touchstone Research Laboratory, Ltd.

The Millennium Centre, 1142 Middle Creek Road

Triadelphia, WV 26059

Brian Joseph (304) 547-5800

16-1-Z3.01-7393 MSFC

[Metal Matrix Composite Enhanced Aluminum Structures](#) [339]

- **Wisconsin (1)**

Madison CryoGroup, LLC

8540 Greenway Boulevard, #203

Middleton, WI 53562

James Maddocks (608) 338-8387

16-1-S1.09-7182 GSFC

[High Capacity, High Efficiency 10 to 20 K Pulse Tube Cryocooler](#) [340]

- **Wyoming (1)**

Thermosolv, LLC

3474 North 3rd Street

Laramie, WY 82072

Vijay Sethi (307) 721-2376

16-1-Z1.01-7407 GSFC

[Nanostructured Dielectrics for High-Temperature Capacitors](#) [341]

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