



## Proposals Selected for Negotiation of Contracts

Expand All

- **Alabama (4)**

**CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (726) 726-4858

17-2-A1.07-9737 GRC

[Integrated Fluid and Materials Modeling of Environmental Barrier Coatings](#) [1]

**CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

17-2-A1.10-9734 LaRC

[Non-Intrusive Computational Method and Uncertainty Quantification Tool for Isolator Operability Calculations](#) [2]

**Geoplasma, LLC**

6703 Odyssey Drive, Northwest Suite 304

Huntsville, AL 35806

Timothy McKechnie (256) 851-7653

17-2-H8.01-8465 LaRC

[Evaluation of Multifunctional Radiation Shielding Material Against Long Duration Space Environment - Utilization of MISSE-FF](#) [3]

**Streamline Automation, LLC**

3100 Fresh Way Southwest

Huntsville, AL 35805

Alton Reich (256) 713-1220

17-2-S3.02-9166 MSFC

[Hybrid Propulsion Technology for Robotic Science Missions](#) [4]

- **Arizona (4)**

- **AdValue Photonics, Inc.**

- 3440 East Britannia Drive, Suite 190

- Tucson, AZ 85706

- Shibin Jiang (520) 790-5468

- 17-2-S1.01-8484 GSFC

- [1.57 Micron High Pulse Energy Single Frequency Fiber Laser](#) [5]

- **Electric Power Systems**

- 4233 South Bedford Drive

- Chandler, AZ 85249

- Nathan Millecam (480) 416-2624

- 17-2-A2.01-9699 AFRC

- [Active Battery Management System with Physics Based Life Modeling Topology](#) [6]

- **Sigma Technologies International, Inc.**

- 10960 North Stallard Place

- Tucson, AZ 85737

- Christopher Hohmann (520) 575-8013

- 17-2-S3.03-9009 GRC

- [Lightweight High Energy Density Capacitors for NASA AMPS and PPU's](#) [7]

- **Vector Launch Inc.**

- 824 East 16th Street

- Tucson, AZ 85719

- Carole Leon (520) 207-9734

- 17-2-Z9.01-9204 MSFC

- [Flight Demonstration of a Micropump-based Stage Pressurization System](#) [8]

- **California (27)**

**Allcomp, Inc.**

209 Puente

La Puente, CA 91746

Wei Shih (626) 252-2956

17-2-H5.02-9590 LaRC

[Novel, Functionally Graded PIP Coating System for Hot Structures](#) [9]

**Antara Teknik, LLC**

5233 Castlereigh Court

Granite Bay, CA 96746

Mehmet Adalier (916) 834-4729

17-2-Z8.02-9571 JPL

[Efficient and Secure Network and Application Communications for Small Spacecraft](#) [10]

**AOSense, Inc.**

415 Oakmead Pkwy

Sunnyvale, CA 94085

Jason Burke (408) 735-9500

17-2-S1.10-8423 GSFC

[Cold Atom Laser Module \(CALM\)](#) [11]

**ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Alan Sharp (408) 736-2822

17-2-A3.02-8684 ARC

[NAS Element Closure Planner](#) [12]

**ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Alan Sharp (408) 736-2822

17-2-A3.01-8685 ARC

[Collective Inference Based Data Analytics System for Post Operations Analysis Phase II](#) [13]

**Deployable Space Systems, Inc.**

460 Ward Drive, Suite F

Santa Barbara, CA 93111

Brian Spence (805) 722-8090

17-2-S3.01-9023 GRC

[Game-Changing Photovoltaic Flexible Blanket Solar Array Technology with Spectrolab Flexsheets](#) [14]

**Freedom Photonics, LLC**

41 Aero Camino

Goleta, CA 93117

Milan Mashanovitch (805) 967-4900

17-2-H9.01-8838 GSFC

[Geiger-Mode SiGe Receiver for Long-Range Optical Communications](#) [15]

**Gener8, Inc.**

500 Mercury Drive

Sunnyvale, CA 94085

William Bischel (650) 940-9898

17-2-Z8.05-9148 GSFC

[Integrated Waveguide Optical Gyroscope](#) [16]

**Human Automation Teaming Solutions, Inc.**

20944 Sherman Way, Suite 211

Canoga Park, CA 91303

Vicky Ho (818) 912-6166

17-2-A3.03-8665 LaRC

[HATIS: Human Autonomy Teaming Interface System for UTM Risks Management](#) [17]

**Innoflight, Inc.**

9985 Pacific Heights Boulevard, Suite 250

San Diego, CA 92121

David Andaleon (858) 638-1580

17-2-Z8.02-9171 ARC

[Compact Multi-Protocol Modem](#) [18]

**Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

17-2-H3.02-9612 JSC

[Micro-Electro-Analytical Sensor for Sensitive, Selective and Rapid Monitoring of Hydrazine in the Presence of Ammonia](#) [19]

**Intelligent Optical Systems, Inc.**

2520 West 237th Street

Torrance, CA 90505

Reuben Sandler (424) 263-6305

17-2-Z3.01-8823 MSFC

[In-Line Inspection of Additive Manufactured Parts Using Laser Ultrasonics](#) [20]

**Irvine Sensors Corporation**

3001 Red Hill Avenue, B3-108

Costa Mesa, CA 92626

Daryl Smetana (714) 444-8760

17-2-Z6.01-8732 JPL

[FLASHRAD: A Non-Volatile 3D Rad Hard Memory Module for High Performance Space Computers](#) [21]

**Leiden Measurement Technology, LLC**

1230 Mountain View Alviso Road, Suite A

Sunnyvale, CA 94089

Nathan Bramall (510) 301-8980

17-2-S1.11-8595 JPL

[WOLFEChip: Wholly-Integrated Optofluidic Laser-Induced Fluorescence Electrophoresis Chip](#) [22]

**LongWave Photonics, LLC**

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958 San Leandro Avenue

Mountain View, CA 94043

Tsungyu Kao (617) 399-6405

17-2-S1.04-9669 JPL

[Tunable, High-Power Terahertz Quantum Cascade Laser Local Oscillator](#) [23]

**Mentium Technologies Inc.**

2208 Pacific Coast Drive

Goleta, CA 93117

Farnood Merrikh Bayat (805) 708-4652

17-2-A2.02-9133 ARC

[Low-Power, ultra-Fast Deep Learning Neuromorphic Chip for Unmanned Aircraft Systems](#) [24]

**Nirvana Energy Systems, Inc.**

3130 Alpine Road, Suite 288 Box 6

Portola Valley, CA 94028

Lambertus Hesselink (415) 269-7102

17-2-Z1.03-9659 GRC

[Linear Acoustic Nuclear Conversion Engine \(LANCE\)](#) [25]

**Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

17-2-S1.03-9385 JPL

[Correlation Radiometer ASIC](#) [26]

**Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

17-2-S1.03-8764 GSFC

[Low-Power Radiation Tolerant 4GHz Bandwidth 16k Channel Spectrometer ASIC](#) [27]

**Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

17-2-S1.04-8763 JPL

[A Low Power Rad-Hard ADC for the KID Readout Electronics](#) [28]

**Polaronyx, Inc.**

2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

17-2-S3.06-9615 MSFC

[3D Manufacturing of Integrated Heat Exchangers](#) [29]

**Redondo Optics, Inc.**

811 North Catalina Avenue, Suite 1100

Redondo Beach, CA 90277

Edgar Mendoza (310) 292-7673

17-2-Z7.01-8404 JPL

[Weaved Distributed Plastic Optical Fiber Sensor \(DIFOS\) SHM system](#) [30]

**Stottler Henke Associates, Inc.**

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2700

17-2-H6.03-9503 ARC

[User Cognitive Modeling to Enhance Task Execution](#) [31]

**Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Suzie Fosmore (310) 679-2281

17-2-A2.02-8755 AFRC

[Developing a Certifiable UAS reliability Assessment Approach Through Algorithmic Redundancy](#) [32]

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**Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

17-2-S4.03-8399 JPL

[Advanced Ignition System for Hybrid Rockets for Mars Sample Return, Phase II](#) [33]

**Valley Tech Systems, Inc.**

160 Blue Ravine Road, Suite B

Folsom, CA 95630

Joe Viola (916) 990-8736

17-2-Z9.01-9883 MSFC

[Affordable Small Satellite Launch Vehicle Reaction Control System](#) [34]

**WASK Engineering, Inc.**

3905 Dividend Drive

Cameron Park, CA 95682

Wendel Burkhardt (530) 672-2795

17-2-Z10.02-8691 JSC

[High Response Control Valve](#) [35]

• **Colorado (23)**

**Advanced Space, LLC**

2100 Central Avenue Suite 102

Boulder, CO 80301

Bradley Cheetham (720) 545-9189

17-2-S3.04-9783 GSFC

[Cislunar Autonomous Positioning System \(CAPS\)](#) [36]

**Agile RF Systems, LLC**

4316 Beverly Drive

Berthoud, CO 80513



Kimberly Kelly (303) 520-6964

17-2-H9.04-9007 GSFC

[Row Column Phased Array Architecture for Low Cost, Low Profile Millimeter Wave Phased Array Antennas](#) [37]

**Air Squared, Inc.**

510 Burbank Street

Broomfield, CO 80020

Rob Shaffer (513) 200-3787

17-2-Z10.02-9316 MSFC

[Spinning-Scroll Pump for Cryogenic Feed System](#) [38]

**Air Squared, Inc.**

510 Burbank Street

Broomfield, CO 80020

Bryce Shaffer (513) 238-9778

17-2-H3.04-9315 JSC

[Vapor Compression Refrigeration System for Cold Storage on Spacecrafts](#) [39]

**Air Squared, Inc.**

510 Burbank Street

Broomfield, CO 80020

Bryce Shaffer (513) 238-9778

17-2-H1.01-9317 JPL

[High Capacity Multi-Stage Scroll Compressor for Mars Atmosphere Acquisition](#) [40]

**Beyond Photonics, LLC**

6205 Lookout Road, Suite B

Boulder, CO 80301

Charley Hale (303) 475-2088

17-2-S1.01-8897 LaRC

[Autonomous Alignment Advancements for Eye-Safe Coherent Lidar](#) [41]

**Black Swift Technologies LLC**

3200 Valmont Road, Suite 7

Boulder, CO 80301

Jack Elston (720) 933-4503

17-2-A1.09-8639 AFRC

[Improved UAS Robustness Through Augmented Onboard Intelligence](#) [42]

**Blue Sun Enterprise, Inc.**

1942 Broadway Street, Suite 314

Boulder, CO 80302

Christopher Grasso (720) 394-8897

17-2-S3.04-8513 JPL

[AutoNav Mark 4: Autonomous Navigation Software](#) [43]

**Boulder Environmental Sciences and Technology**

5171 Eldorado Springs Drive, Suite A

Boulder, CO 80303

Marian Klein (303) 532-1198

17-2-S1.02-9097 GSFC

[Deployable Microwave Antennas for CubeSats, NanoSats, and SmallSats](#) [44]

**Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

17-2-S4.01-9312 LaRC

[Non-mechanical High-Resolution Low-SWaP Lidar](#) [45]

**Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

17-2-S1.01-8884 LaRC

[High Speed Beam Steering Components for Lidar](#) [46]

**Microelectronics Research Development Corporation**

4775 Centennial Boulevard, Suite 130

Colorado Springs, CO 80919

Karen Van Cura (719) 531-0805

17-2-Z6.01-9874 GSFC

[Double Data Rate 3 Controller for Use in Radiation Environments](#) [47]

**MMA Design, LLC**

P.O. Box 7804

Loveland, CO 80537

Mitchell Wiens (970) 290-6426

17-2-S1.02-9973 JPL

[Deployable Ku/Ka/W Tri-Band Cylindrical Parabolic Antenna](#) [48]

**Plasma Controls, LLC**

1180 La Eda Lane

Fort Collins, CO 80526

Casey Farnell (970) 581-2239

17-2-S3.02-9837 GRC

[Iodine Hollow Cathode](#) [49]

**Quest Thermal Group**

6452 Fig Street Unit A

Arvada, CO 80004

Alan Kopelove (303) 395-3100

17-2-Z2.01-9331 MSFC

[Variable Gas-Conductance Radiator: Lightweight, High Turndown Spacecraft Radiator](#) [50]

**Quest Thermal Group**

6452 Fig Street Unit A

Arvada, CO 80004

Alan Kopelove (303) 395-3100

17-2-Z10.01-9245 GRC

[Multi-Environment MLI: Novel Multi-Functional Insulation for Mars Missions](#) [51]

**ROCCOR, LLC**

2602 Clover Basin Drive, Suite D

Louisville, CO 80027

Stephanie Amend (801) 710-1252

17-2-S3.02-9418 MSFC

[Trussed TRAC Boom for Solar Sails](#) [52]

**ROCCOR, LLC**

2602 Clover Basin Drive, Suite D

Louisville, CO 80027

Stephanie Amend (801) 710-1252

17-2-S1.06-9292 GSFC

[Simplified High-Performance Roll Out Composite Magnetometer Boom](#) [53]

**TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

17-2-Z10.03-9105 SSC

[Novel Sorbent to Remove Radioactive Halogens and Noble Gases from NTP Engine Exhaust](#) [54]

**TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

17-2-H1.01-9111 KSC

[ISRU CO2 Recovery](#) [55]

**Tech-X Corporation**

5621 Arapahoe Avenue, Suite A

Boulder, CO 80303

John R. Cary (303) 448-0727

17-2-H11.01-9532 JSC

[RSim: A Simulation Tool Integrating Radiation Codes and CAD.](#) [56]

**Tendeg, LLC**

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

17-2-S2.02-8520 JPL

[Redundant StarShade Truss Deployment Motor/Cable Assembly](#) [57]

**Tendeg, LLC**

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

17-2-S1.02-9250 JPL

[Enabling Larger Deployable Ka-Band Antenna Apertures with Novel Rib](#) [58]

• **Connecticut (5)**

**Connecticut Analytical Corporation**

696 Amity Road

Bethany, CT 06524

Joseph Bango (203) 393-9666

17-2-S1.11-9800 ARC

[Electro-Kinetic Ice Gun for Frozen Ice Plume Simulations](#) [59]

**Precision Combustion, Inc.**

410 Sackett Point Road

North Haven, CT 06473

Spencer Roux (203) 287-3700

17-2-Z1.02-8904 GRC

[Highly Efficient, Durable Regenerative Solid Oxide Stack](#) [60]

**Qualtech Systems, Inc.**

100 Corporate Place, Suite 220

Rocky Hill, CT 06067

Sudipto Ghoshal (860) 761-9341

17-2-H6.01-9516 MSFC

[Flexible Integrated System Health Management for Sustainable Habitats using TEAMS](#) [61]

**Supercool Metals, LLC**

5 Science Park, 2nd Floor

New Haven, CT 06511

Evgenia Pekarskaya (646) 244-0247

17-2-Z3.02-8909 JPL

[Thermoplastic Forming of Bulk Metallic Glasses for Precision Robotics Components](#) [62]

**Sustainable Innovations, LLC**

111 Roberts Street, Suite J

East Hartford, CT 06108

Trent Molter (860) 652-9690

17-2-H3.03-9217 JSC

[Solid State Oxygen Concentrator and Compressor](#) [63]

• **Delaware (4)**

**Composites Automation, LLC**

9 Adelaide Court

Newark, DE 19702

Dirk Heider (302) 584-4184

17-2-H4.01-9146 JSC

[Impact Resistant Composite Structures for Space Suit Applications](#) [64]

**Made in Space, Inc.**

427 North Tatnall Street, #56666

Wilmington, DE 19801

Andrew Rush (904) 806-4548

17-2-H8.01-8809 JSC

[Industrial Crystallization Facility for Nonlinear Optical Materials](#) [65]

**Made in Space, Inc.**

427 North Tatnall Street, #56666

Wilmington, DE 19801

Justin Kugler (713) 855-3333

17-2-H7.02-8696 MSFC

[The Vulcan Advanced Hybrid Manufacturing System](#) [66]

**STF Technologies, LLC**

58 Darien Road

Newark, DE 19711

Richard Dombrowski (716) 799-5935

17-2-H4.01-8870 JSC

[Impact-Resistant, Damage-Tolerant Composites with STF Energy Absorbing Layers](#) [67]

• **Florida (3)**

**Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Leonard Kubik (960) 960-9520

17-2-A1.08-9629 LaRC

[Fast Response, Fiber-Optic Micromachined Five-Hole Probe for Three-Dimensional Flow Measurements in Harsh Environments](#) [68]

**Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Leonard Kubik (256) 960-9520

17-2-A1.02-9654 ARC

[High Channel Count, High Density Microphone Arrays for Wind Tunnel Environments](#) [69]

**Troxel Aerospace Industries, Inc.**

2023 Northeast 55th Boulevard

Gainesville, FL 32641

Ian Troxel (720) 626-0454

17-2-Z6.01-8473 JPL

[Robust Multicore Middleware](#) [70]

- **Georgia (2)**

- **Global Technology Connection, Inc.**

- 2839 Paces Ferry Road, Suite 1160

- Atlanta, GA 30339

- Janice Healy (770) 803-3001

- 17-2-H6.01-9055 MSFC

- [Operation-Aware ISHM for Environmental Control and Life Support in Deep Space Habitants](#) [71]

- **Helden Aerospace Corporation**

- 2463 Saluda Drive

- Acworth, GA 30101

- John Hooker (678) 849-8420

- 17-2-A1.05-8647 LaRC

- [HeldenSurface: A CAD Tool to Generate High-Quality Surfaces](#) [72]

- **Illinois (5)**

- **ATSP Innovations**

- 60 Hazelwood Drive

- Champaign, IL 61820

- David Carroll (217) 778-6461

- 17-2-Z4.01-8593 LaRC

- [Reversible Adhesion Concept for In-Space Assembly](#) [73]

- **CU Aerospace, LLC**

- 301 North Neil Street, Suite 502



Champaign, IL 61820

David Carroll (217) 239-1703

17-2-H9.03-8954 GSFC

[CUA OpenMP Nonlinear Optimization Tool](#) [74]

**CU Aerospace, LLC**

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 239-1703

17-2-Z8.01-9758 JPL

[Fiber-fed Advanced Pulsed Plasma Thruster \(FPPT\)](#) [75]

**MicroLink Devices, Inc.**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 920-9705

17-2-S3.01-9061 GRC

[Radiation Tolerant >35% Efficient Phosphide-Based Multi-Junction Solar Cells with Epitaxial Lift-Off](#) [76]

**NOUR, LLC**

1500 Sheridan Road, - 8A

Wilmette, IL 60091

Manijeh Razeghi (847) 491-7251

17-2-S1.04-9289 GSFC

[Type-II Superlattice Based Low Dark Current Short-Wavelength Infrared Photodetectors With Optical Response From 0.4 to 2.5um](#) [77]

• **Indiana (2)**

**Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

John Vellinger (812) 728-8133

17-2-H8.01-9770 ARC

[Rodent Centrifuge Facility Quad Locker for ISS Life and Microgravity Science Research](#) [78]

**Victor Technologies, LLC**

P.O. Box 7706

Bloomington, IN 47407

Harold Sabbagh (812) 360-3645

17-2-Z11.02-9901 LaRC

[Electromagnetic Characterization of Advanced Composites by Voxel-Based Inverse Methods](#) [79]

• **Maryland (4)**

**Arctic Slope Technical Services**

289 Dunlop Boulevard, Building 300

Beltsville, MD 20705

Vivian Jacobs (301) 837-3956

17-2-Z9.01-9957 MSFC

[Additively Manufactured Bimetallic Combustion Chambers for Small Launch Vehicles](#) [80]

**Lambda Consulting/Advanced Nanophotonics**

4437 Windsor Farm Road

Harwood, MD 20776

John Hagopian (240) 678-9475

17-2-S2.01-8266 GSFC

[Proximity Glare Suppression using Carbon Nanotubes](#) [81]

**Robust Analytics**

2053 Liza Way

Gambrills, MD 21054

Peter Kostiuk (410) 980-3667

17-2-A3.03-8309 ARC

[Detecting Anomalies by Fusing Voice and Operations Data](#) [82]

**X-wave Innovations, Inc.**

555 Quince Orchard Road, Suite 510

Gaithersburg, MD 20878

Jennifer Duan (301) 200-8128

17-2-A2.01-8831 GRC

[A Combined Health Estimation and Active Balancing Electronic System for the Life Enhancement of Batteries in Hybrid and/or All-Electric Propulsion Systems](#) [83]

- **Massachusetts (13)**

- **Aerodyne Research, Inc.**

- 45 Manning Road

- Billerica, MA 01821

- Jiri Cistecki (978) 663-9500

- 17-2-S1.09-9255 GSFC

- [Cryomechanical Preconcentration System for Trace Gas Analysis](#) [84]

- **Boston Micromachines Corporation**

- 30 Spinelli Place

- Cambridge, MA 02138

- Tracy Raymond (617) 868-4178

- 17-2-S2.01-9865 JPL

- [Technology Development for High-Actuator-Count MEMS DM Systems](#) [85]

- **Busek Company, Inc.**

- 11 Tech Circle

- Natick, MA 01760

- Judy Budny (508) 655-5565

- 17-2-Z8.05-9429 GSFC

- [Milliarcsecond Small Spacecraft Attitude Control System](#) [86]

- **Busek Company, Inc.**

- 11 Tech Circle

- Natick, MA 01760

- Judy Budny (508) 655-5565

17-2-S3.04-9428 MSFC

[Versatile Attitude Control Actuators for Sub-Milliarsecond Precision Pointing](#) [87]

**Custom MMIC Design Services, Inc.**

300 Apollo Drive

Chelmsford, MA 01824

Paul Blount (978) 467-4290

17-2-H9.04-8557 JPL

[GaN MMIC Ka-Band Power Amplifier](#) [88]

**Energid Technologies**

One Mifflin Place, Suite 400

Cambridge, MA 02138

James English (888) 547-4100

17-2-Z5.01-9019 ARC

[Modules and Software for Free-Flying Robots](#) [89]

**Magnolia Optical Technologies, Inc.**

52B Cummings Park, Suite 314

Woburn, MA 01801

Yash Puri (978) 821-7500

17-2-S1.05-8877 GSFC

[Design and Development of High Gain AlGaIn Avalanche Photodiode Arrays](#) [90]

**Microscale, Inc.**

800 West Cummings Park, Suite 3350

Woburn, MA 01801

Xing tao Wu (339) 927-1996

17-2-S2.01-9655 JPL

[Next-Generation Deformable Mirrors for Astronomical Coronagraphy by Utilizing PMN-PT Single Crystal Stack Actuators in integration with Driver ASIC](#) [91]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

17-2-Z2.01-9765 JSC

[Passive Set-Point Thermal Control Skin for Spacecraft](#) [92]

**Q-Peak, Inc.**

135 South Road

Bedford, MA 01730

B. David Green (978) 689-0003

17-2-S1.11-8294 GSFC

[Compact UV Laser](#) [93]

**Reactive Innovations, LLC**

2 Park Drive, Unit 4

Westford, MA 01886

Michael Kimble (970) 846-0547

17-2-H10.03-9438 SSC

[Helium and Hydrogen Mixed Gas Separator](#) [94]

**Remote Sensing Solutions, Inc.**

3179 Main Street, Unit 3, P.O. Box 1092

Barnstable, MA 02630

James Canniff (508) 362-9400

17-2-S5.02-8498 GSFC

[An Interoperable Decision Support System for Flood Disaster Response Assistance](#) [95]

**Remote Sensing Solutions, Inc.**

3179 Main Street, Unit 3, P.O. Box 1092

Barnstable, MA 02630

James Canniff (508) 362-9400

17-2-S4.01-8340 JPL

[An Enhanced Modular Terminal Descent Sensor for Landing on Planetary Bodies](#) [96]

- **Michigan (1)**

- **Navitas Advanced Solutions Group, LLC**

- 4880 Venture Drive Suite 100

- Ann Arbor, MI 48108

- Angela Youngblood (734) 205-1434

- 17-2-Z1.02-9685 GRC

- [Bifunctional Membrane for High Energy, Long Shelf Life Li-S Batteries](#) [97]

- **Minnesota (1)**

- **Architecture Technology Corporation**

- 9971 Valley View Road

- Eden Prairie, MN 55344

- Lisa Knopik (952) 829-5864

- 17-2-A3.02-9829 LaRC

- [Predictor of Airport Runway Capacity \(PARC\)](#) [98]

- **Mississippi (1)**

- **Innovative Imaging and Research Corporation**

- Building 1103, Suite 140C

- Stennis Space Center, MS 39529

- Mary Pagnutti (228) 688-2452

- 17-2-H10.01-9546 SSC

- [An Affordable Autonomous Hydrogen Flame Detection System for Rocket Propulsion](#) [99]

- **Missouri (1)**

- **Froberg Aerospace, LLC**

- 900 Innovation Drice, Suite 200M

- Rolla, MO 65401

- Steven Berg (636) 497-6998

- 17-2-Z8.01-8547 GRC

[Multi-Mode Micropropulsion](#) [100]

- **Montana (2)**

**ADVR, Inc.**

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

17-2-H9.05-8528 GRC

[Polarization Entangled Photon Pair Source for Space-Based Quantum Communication](#) [101]

**Anasphere, Inc.**

81 8th Street #1

Belgrade, MT 59714

John Bognar (406) 595-3286

17-2-Z7.03-8438 LaRC

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- **New Hampshire (4)**

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 643-3800

17-2-S3.06-8949 JPL

[A Two-Phase Pumped Loop Evaporator with Adaptive Flow Distribution for Large Area Cooling](#) [103]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 643-3800

17-2-S1.09-9725 GSFC

[Low Cost Cryocooler Control Electronics for Small Space Platforms](#) [104]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Scoder (603) 643-3800

17-2-S5.03-9687 GSFC

[Open-Source Pipeline for Large-Scale Data Processing, Analysis and Collaboration](#) [105]

**QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 03063

Mani Sundaram (603) 821-3092

17-2-S1.04-8477 GSFC

[VLWIR Sensors for Detecting and Tracking Near-Earth Asteroids](#) [106]

• **New Mexico (3)**

**Goodman Technologies, LLC**

9551 Giddings Avenue Northeast

ALbuquerque, NM 87109

William Goodman (505) 400-8169

17-2-S2.03-9933 GRC

[3D Printed Silicon Carbide Scalable to Meter-Class Segments for Far-Infrared Surveyor](#) [107]

**Little Prairie Services**

14 Dunkin Road

Edgewood, NM 87015

Roger Lenard (505) 220-8029

17-2-Z10.03-8922 SSC

[Multi-Physics NTR Safety Analyses](#) [108]

**Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505



Alan Stanton (505) 984-1322

17-2-S1.08-8940 ARC

[Compact CO2 Instrumentation for Small Aerial Platforms](#) [109]

- **New York (1)**

- **Actasys, Inc.**

- 8 Callaway Circle

- Loudonville, NY 12211

- Daniele Gallardo (617) 834-0666

- 17-2-A1.04-8890 LaRC

- [Active Flow Control System for Commercial Aircraft Using Synthetic Jet](#) [110]

- **Ohio (5)**

- **Applied Sciences, Inc.**

- 141 West Xenia Avenue

- Cedarville, OH 45314

- Marty Rochon (937) 766-2020

- 17-2-S2.04-8778 GSFC

- [Pyramid Nanostructured Coatings for Stray Light Suppression](#) [111]

- **Cornerstone Research Group, Inc.**

- 510 Earl Boulevard

- Miamisburg, OH 45342

- Chrysa Theodore (937) 320-1877

- 17-2-A1.01-9469 LaRC

- [Single-Process, Unitized, Composite Fuselage](#) [112]

- **Cornerstone Research Group, Inc.**

- 510 Earl Boulevard

- Miamisburg, OH 45342

- Chrysa Theodore (937) 320-1877

17-2-Z4.01-9457 LaRC

[Multifunctional Self-Aligning Reversible Joint Using Space-Qualifiable Structural Fasteners](#) [113]

**Hyper Tech Research, Inc.**

539 Industrial Mile Road

Columbus, OH 43228

Sherrie Cantu (740) 517-1938

17-2-A1.03-9411 GRC

[Low AC-Loss Superconducting Cable Technology for Electric Aircraft Propulsion](#) [114]

**Ultratech Machinery**

297 Ascot Parkway

Cuyahoga Falls, OH 44223

Steve Ambrosia (330) 564-8843

17-2-H7.02-9767 MSFC

[ISS Multi-Material Fabrication Laboratory Using Ultrasonic Additive Manufacturing Technology](#) [115]

• **Oregon (6)**

**e beam, Inc.**

21070 Southwest Tile Flat Road

Beaverton, OR 97007

Bernard Vancil (503) 628-0703

17-2-S3.02-9525 GRC

[Cathode for Electric Space Propulsion Utilizing Iodine as Propellant](#) [116]

**The Innovation Laboratory, Inc.**

2360 SW Chelmsford Avenue

Portland, OR 97201

Michelle Camarda (503) 242-1761

17-2-A3.02-9118 ARC

[Machine Learning of Multi-Modal Influences on Airport Delays](#) [117]

**The Innovation Laboratory, Inc.**

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2360 SW Chelmsford Avenue

Portland, OR 97201

Michelle Camarda (503) 242-1761

17-2-A3.03-9117 LaRC

[Turbulence Awareness via Real-Time Data Mining](#) [118]

**The Innovation Laboratory, Inc.**

2360 SW Chelmsford Avenue

Portland, OR 97201

Michelle Camarda (503) 242-1761

17-2-A3.01-9556 LaRC

[Turbulence Awareness for Strategic Aircraft Re-Routing \(TASAR-R\)](#) [119]

**UMPQUA Research Company**

P.O. Box 609

Myrtle Creek, OR 97457

Tracy Everett (541) 863-2655

17-2-H3.03-9928 GRC

[Regenerable Carbon Filter](#) [120]

**Voxel, Inc.**

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

17-2-S2.04-8407 GSFC

[Freeform Optics for Optical Payloads with Reduced Size and Weight](#) [121]

• **Pennsylvania (8)**

**Astrobotic Technology, Inc.**

2515 Liberty Avenue

Pittsburgh, PA 15222

Fraser Kitchell (206) 470-9055

17-2-H2.01-8820 KSC

[Cuberover for Lunar Science and Exploration](#) [122]

**Bally Ribbon Mills**

23 North 7TH Street

Bally, PA 19503

Bert Harries (845) 845-2211

17-2-Z7.02-9990 ARC

[Novel Spider 3D Woven Seamless ADEPT Aero-Shell](#) [123]

**Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Katherine Young (215) 766-1520

17-2-A1.03-9836 GRC

[A Software Toolkit to Accelerate Emission Predictions for Turboelectric/Hybrid Electric Aircraft Propulsion](#) [124]

**Diamond Materials, Inc.**

23 Brahms Court

East Stroudsburg, PA 18301

Oleg Voronov (570) 730-4108

17-2-S4.04-9333 GRC

[Large Area Diamond Tribological Surfaces with Negligible Wear in Extreme Environments](#) [125]

**LignaMed, LLC**

3711 Market Street

Philadelphia, PA 19104

James Harris (215) 206-2754

17-2-H12.01-8754 LaRC

[LGM2605 as a Mitigator of Space Radiation-Induced Vascular Damage](#) [126]

**Protoinnovations,LLC**

5453 Albemarle Avenue

Pittsburgh, PA 15217

Dimitrios Apostolopoulos (412) 916-8807

17-2-Z5.02-8656 ARC

[Tensegrital Wheel for Enhanced Surface Mobility](#) [127]

**QorTek, Inc.**

1965 Lycoming Creek Road, Suite 205

Williamsport, PA 17701

Cathy Bower (570) 322-2700

17-2-Z8.03-9396 GSFC

[Dynamically Reconfigurable Electrical Power System\(EPS\) with Integrated Thermal Management and High Voltage Capability for Small Spacecraft](#) [128]

**SET Group, LLC**

142 Schoolhouse Road

Norristown, PA 19403

Raul Chinga Alvarado (844) 738-9933

17-2-S3.03-8373 GRC

[GaN-Based High Power High Frequency Wide Range LLC Resonant Converter](#) [129]

• **Texas (6)**

**Dallas Optical Systems, Inc.**

1790 Connie Lane

Rockwall, TX 75032

John Casstevens (972) 564-1156

17-2-S2.03-9674 MSFC

[Additive Manufactured Very Light Weight Diamond Turned Aspheric Mirror](#) [130]

**Photodigm, Inc.**

1155 East Collins Boulevard, #200

Richardson, TX 75081

John Spencer (972) 235-7584

17-2-S1.01-9205 LaRC

[Compact Integrated DBR Laser Source for Absorption Lidar Instruments](#) [131]

**Pointwise, Inc.**

213 South Jennings Avenue

Fort Worth, TX 76104

Nick Wyman (817) 377-2807

17-2-A1.05-8731 LaRC

[High Order Mesh Curving and Geometry Access](#) [132]

**Silicon Space Technology Corporation**

1501 South MoPac Expressway, Suite 350

Austin, TX 78746

Ross Bannatyne (512) 550-2954

17-2-S3.08-9948 GSFC

[Rad-Hard Embedded Processing SIP](#) [133]

**Texas Research Institute Austin, Inc.**

9063 Bee Caves Road

Austin, TX 78733

Cristina Morton (512) 263-2101

17-2-Z11.01-9048 LaRC

[Millimeter-Wave Camera](#) [134]

**TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

17-2-Z5.02-9047 JSC

[A General Purpose Software Toolkit for Robot Control and Application Programming](#) [135]

• **Utah (1)**

**Sequent Logic, LLC**

3265 North 1950 East

North Logan, UT 84341

Ryan Seeley (435) 915-4425

17-2-A2.01-8971 AFRC

[Tunable Laser for High-Performance, Low-Cost Distributed Sensing Platform](#) [136]

• **Virginia (5)**

**Crown Consulting, Inc.**

1400 Key Boulevard, Suite 1100

Arlington, VA 22209

Timothy Nolan (767) 767-3913

17-2-A3.02-8740 LaRC

[Selecting Days for Concept and Technology Evaluation in SMART-NAS Test-Bed Scenario Generation](#) [137]

**Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

17-2-S1.01-8776 LaRC

[High Speed Frequency Locking Module for Lidar Based Remote Sensing Systems](#) [138]

**Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

17-2-H9.01-8624 JPL

[High Power \(50W\) WDM Space Lasercom 1.5um Fiber Laser Transmitter](#) [139]

**Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Michael Pruzan (540) 769-8430

17-2-S4.02-9202 JPL

[Extended Length Marsupial Rover Sensing Tether](#) [140]

**Nuvotronics, Inc**

7586 Old Peppers Ferry Loop

Radford, VA 24141

Scott Meller (800) 341-2333

17-2-S1.04-8720 GSFC

[Wafer level Integration on PolyStrata\(R\) Interposer \(WIPI\) Phase II \(17028\)](#) [141]

• **Washington (3)**

**BluHaptics, Inc.**

108 Northwest Canal Street

Seattle, WA 98107

Luke Wissmann (303) 630-9153

17-2-Z5.02-9041 JSC

[Deft Control Software \(DCS\) for Remote Robotic Operations with Underlying Structure](#) [142]

**Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

17-2-H7.02-9710 MSFC

[Metal Advanced Manufacturing Bot-Assisted Assembly \(MAMBA\) Process](#) [143]

**Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

17-2-Z8.04-9706 ARC

[MakerSat](#) [144]



- **West Virginia (1)**

- **4D Tech Solutions, Inc.**

- 1275 Stewartstown Road, Suite 200

- Morgantown, WV 26505

- Bradley DeRoos (443) 604-0256

- 17-2-A1.06-8527 GRC

- [Intelligent Electronic Speed Controller](#) [145]

- **Wisconsin (1)**

- **Photonic Cleaning Technologies, LLC**

- 1895 Short Lane

- Platteville, WI 53818

- James Hamilton (608) 770-0565

- 17-2-S2.01-9936 JPL

- [Polymer Coating-Based Contaminant Control/Elimination for Exo-S Starshade Probe](#) [146]

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