



## Proposals Selected for Negotiation of Contracts

- **AdValue Photonics, Inc.**

3440 East Britannia Drive, Suite 190

Tucson, AZ 85706

Shibin Jiang (520) 790-5468

16-2-S1.01-7292 LaRC

[Compact High Pulse Energy Single Frequency Fiber Amplifier](#) [1]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 295-6104

16-2-S3.07-8563 GSFC

[Loop Heat Pipe Manufacturing via DMLS for CubeSAT Applications](#) [2]

- **Advanced Numerical Solutions, LLC**

3554 Mark Twain Court

Hilliard, OH 43026

Sandeep Vijayakar (614) 771-4861

16-2-A1.06-8494 ARC

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

- **ADVR, Inc.**

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

16-2-S1.01-7855 LaRC

[Space-Hardened Seed Laser for Use in High Spectral Resolution Lidar Systems](#) [4]

- **Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 01821

Jiri Cistecky (978) 663-9500

16-2-A1.03-8523 GRC

[Electrometric Aviation Soot Monitor](#) [5]

- **Allcomp, Inc.**

209 Puente Avenue

City of Industry, CA 91746

Wei Shih (626) 369-1273

16-2-H5.02-7447 LaRC

[Novel, Functionally Graded Coating System for Reusable, Very High Temperature Applications](#) [6]

- **Altius Space Machines, Inc.**

3001 Industrial Lane, Unit #5

Broomfield, CO 80020

Jonathan Goff (801) 362-2310

16-2-H2.04-8454 GRC

[Lightweight, High-Flow, Low Connection-Force, In-Space Cryogenic Propellant Coupling](#) [7]

- **AOSense, Inc.**

929 East Arques Avenue

Sunnyvale, CA 94085

Jason Burke (408) 636-2643

16-2-H9.03-7387 GSFC

[Time Inter-Comparison Using Transportable Optical Combs](#) [8]

- **Applied Technology Associates**

1300 Britt Street Southeast

Albuquerque, NM 87123

Jeff Grusy (505) 980-2027

16-2-S3.05-8104 GSFC

[DRG-Based CubeSat Inertial Reference Unit \(DCIRU\)](#) [9]

- **Apre Instruments, LLC**

2440 West Ruthrauff Road, Suite 100

Tucson, AZ 85745

Robert Smythe (860) 398-5764

16-2-S2.04-7976 GSFC

[Low Coherence Wavefront Probe for Nanometer Level Free-Form Metrology](#) [10]

- **Architecture Technology Corporation**

9971 Valley View Road

Eden Prairie, MN 55344

Rick Edin (952) 829-5864

16-2-A3.03-8048 ARC

[Automated Real-Time Clearance Analyzer \(ARCA\)](#) [11]

- **Architecture Technology Corporation**

9971 Valley View Road

Eden Prairie, MN 55344

Richard Smith (607) 257-1975

16-2-A3.01-8505 ARC

[Integrated Multi-Mode Automation for Trajectory Based Operations](#) [12]

- **ATA Engineering, Inc.**

13290 Evening Creek Drive South, Suite 250

San Diego, CA 92128

Joshua Davis (858) 480-2028

16-2-A1.02-8366 GRC

[Continuous-Scan Phased Array Measurement Methods for Turbofan Engine Acoustic Testing](#) [13]

- **Barrett Technology, LLC**

73 Chapel Street

Newton, MA 02458

David Wilkinson (617) 252-9000

16-2-S4.02-7665 JPL

[Miniature 70-W Brushless Motor-Controller for Compact Extraterrestrial-Based Actuation](#) [14]

- **Beyond Photonics, LLC**

6205 Lookout Road, Suite B

Boulder, CO 80301

Sammy Henderson (303) 396-8536

16-2-S1.01-7246 LaRC

[Compact 2-Micron Transmitter for Remote Sensing Applications](#) [15]

- **Black Swift Technologies LLC**

2100 Central Avenue, Suite 102

Boulder, CO 80301

Jack Elston (720) 638-9656

16-2-S3.04-8077 GSFC

[A Ruggedized UAS for Scientific Data Gathering in Harsh Environments](#) [16]

- **Bridger Photonics, Inc.**

2310 University Way, Building, 4-4

Bozeman, MT 59715

Lisa Bleile (406) 585-2774

16-2-S1.01-7662 LaRC

[High Power, Thermally Optimized Blue Laser for Lidar](#) [17]

- **CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

16-2-Z1.01-8436 GSFC

[Characterization and Mitigation of Radiation and High Temperature Effects in SiC Power Electronics](#) [18]

- **Clear Science Corporation**

663 Owego Hill Road, PO Box 233

Harford, NY 13784

Henry Carlson (607) 844-9171

16-2-A1.01-8553 LaRC

[Physics-Based Models for Aeroservoelasticity Prediction and Control](#) [19]

- **Composite Technology Development, Inc.**

2600 Campus Drive, Suite D

Lafayette, CO 80026

Lori Bass (303) 664-0394

16-2-H5.01-7616 LaRC

[200W Deep Space CubeSat Composite Beam Roll-Up Solar Array \(COBRA\)](#) [20]

- **Continuum Analytics, Inc.**

221 West 6th Street, Suite 1550

Austin, TX 78701

Hunt Sparra (512) 776-1094

16-2-S5.03-7927 GSFC

[Open Source Parallel Image Analysis and Machine Learning Pipeline](#) [21]

- **Control Point Corporation**

110 Castilian Drive, Suite 200

Goleta, CA 93117

Ed Marcarelli (805) 882-1884

16-2-H12.01-7824 JSC

[5D Task Analysis Visualization Tool Phase II](#) [22]

- **Converter Source, LLC**

16922 South Canaan Road

Athens, OH 45701

James Huth (740) 331-4751

16-2-H2.04-7770 GRC

[Innovative Stirling-Cycle Cryocooler for Long Term In-Space Storage of Cryogenic Liquid Propellants](#) [23]

- **CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 529-9517

16-2-S1.04-7518 GSFC

[A Silicon Carbide Foundry for NASA's UV and High Temperature CMOS Electronics Needs](#) [24]

- **Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Chrysa Theodore (937) 320-1877

16-2-H5.04-8148 LaRC

[Reclaimable Thermally Reversible Polymers for AM Feedstock](#) [25]

- **Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Chrysa Theodore (937) 320-1877

16-2-H8.04-8147 GRC

[Advanced Lithium Sulfur Battery](#) [26]

- **Creare, LLC**

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16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 643-3800

16-2-H2.04-7766 GRC

[A High Efficiency Cryocooler for In-Space Cryogenic Propellant Storage](#) [27]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 643-3800

16-2-S1.09-7871 GSFC

[A 10 K Multistage Cryocooler with Very Low Vibration](#) [28]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 643-3800

16-2-S3.07-7413 GSFC

[An Efficient, Reliable, Vibration-Free Refrigerant Pump for Space Applications](#) [29]

- **CU Aerospace, LLC**

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 239-1703

16-2-S3.02-7888 GRC

[Monofilament Vaporization Propulsion \(MVP\) System](#) [30]

- **CU Aerospace, LLC**

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 239-1703

16-2-H9.03-8310 GSFC

[NonLinear Parallel OPTimization Tool](#) [31]

- **CU Aerospace, LLC**

301 North Neil Street, Suite 502

Champaign, IL 61820

Andrew Palla (217) 239-0629

16-2-A1.04-8270 LaRC

[Cyclotronic Plasma Actuator with Arc-Magnet for Active Flow Control](#) [32]

- **Deployable Space Systems, Inc.**

460 Ward Drive, Suite F

Santa Barbara, CA 93111

Brian Spence (805) 722-8090

16-2-H8.03-8031 GRC

[Affordable, Lightweight, Compactly Stowable, High Strength / Stiffness Lander Solar Array](#) [33]

- **Dexmat, Inc.**

2429 Bissonnet Street

Houston, TX 77005

Alberto Goenaga (805) 895-8628

16-2-S3.03-7399 GRC

[Lightweight CNT Shielded Cables for Space Applications](#) [34]

- **e-beam, Inc.**

21070 Southwest Tile Flat Road

Beaverton, OR 97007

Bernard Vancil (503) 628-0703

16-2-S1.02-8137 JPL

[Ka-Band Klystron Amplifier for CUBESATs](#) [35]

- **Eagle Harbor Technologies, Inc.**

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169 Western Avenue West, Suite 263

Seattle, WA 98119

Timothy Ziemba (206) 582-1240

16-2-H13.02-7827 LaRC

[Precision Eddy Current Sensor for Nondestructive Evaluation of Spacecraft Structures](#) [36]

- **Environmental and Life Support Tech.**

6600 East Lookout Drive

Parker, CO 80138

Clifford Jolly (303) 495-2090

16-2-H3.01-7294 JPL

[Silver Biocide Analysis & Control Device](#) [37]

- **EOTRON, LLC**

3516 Seagate Way, Suite 140

Oceanside, CA 92056

Ron Courtois (760) 815-3457

16-2-A2.02-8328 AFRC

[Compact High Power 3D LiDAR System for \(UAS\) Unmanned Aircraft Systems](#) [38]

- **Fantom Materials, Inc.**

3038 Aukele Street

Lihue, HI 96766

Lauren Bolton (808) 246-6465

16-2-S2.03-8014 MSFC

[Ultra-Stable Zero-CTE HoneySiC and H2CMN Mirror Support Structures](#) [39]

- **Faraday Technology, Inc.**

315 Huls Drive

Englewood, OH 45315

E. Jennings Taylor (937) 836-7749

16-2-H3.02-8508 ARC

[FARADAYIC\(R\) Electrochemical Peroxide Generation for In-Situ Disinfection](#) [40]

- **FastCAP Systems Corporation**

21 Drydock Avenue

Boston, MA 02210

John Cooley (857) 239-7500

16-2-S3.03-7420 GRC

[Ultracapacitor Based Power Supply for CubeSats](#) [41]

- **Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

16-2-S1.01-8414 LaRC

[Spaceflight 1.94 Micron Tm Fiber Laser Transmitter](#) [42]

- **FOMS, Inc.**

3525 Del Mar Heights Road, #236

San Diego, CA 92130

Ella Volfson (858) 342-0993

16-2-H14.01-7508 JSC

[Space Facility for Orbital Remote Manufacturing \(SPACEFORM\)](#) [43]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

16-2-S1.07-7358 GSFC

[Widely Tunable Semiconductor Laser at 1650nm for Greenhouse Gas LIDAR Detection](#) [44]

- **Freedom Photonics, LLC**

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41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

16-2-A2.01-7475 AFRC

[Inexpensive, Rugged and Compact Tunable Laser with Simple Tuning Control for Airborne Fiber Optic Sensor \(FOS\) Interrogators](#) [45]

- **GeneSiC Semiconductor, Inc.**

43670 Trade Center Place, Suite 155

Dulles, VA 20166

Ranbir Singh (703) 996-8200

16-2-S3.03-7942 GRC

[Monolithically Integrated Rad-Hard SiC Gate Driver for 1200 V DMOSFETs](#) [46]

- **Higher Ground**

2225 E. Bayshore Rd, Suite 200

Palo Alto, CA 94303

Rob Reis (650) 322-3958

16-2-A3.02-8237 ARC

[Innovation in the Sky](#) [47]

- **Honeybee Robotics, Ltd.**

Building 128, Suite 121 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Kristian Mueller (626) 421-7902

16-2-H6.01-7532 JSC

[The Stinger: A Geotechnical Sensing Package for Robotic Scouting on a Small Planetary Rover](#) [48]

- **Honeybee Robotics, Ltd.**

Building 128, Suite 121 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Jason Herman (646) 459-7819

16-2-H5.04-7952 LaRC

[Strut Attachment System for In-Space Robotic Assembly](#) [49]

- **Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

16-2-H3.01-8321 JPL

[Polymer Nanowire-Based Reversible, and Quasi Real-Time, Ethylene Analyzer](#) [50]

- **Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

16-2-Z2.01-8287 JSC

[Modified Ionic Liquid-Based Phase Change Materials as Effective Heat Exchangers](#) [51]

- **Innovative Imaging and Research Corporation**

Building 1103, Suite 140C

Stennis Space Center, MS 39529

Mary Pagnutti (228) 688-2452

16-2-H10.02-8302 SSC

[Color-XHDR - A Compact High-Speed Color Extreme High Dynamic Range Video Capability for Rocket Engine Testing](#) [52]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

16-2-A3.01-7633 ARC

[Stakeholder Web-Based Interrogable Federated Toolkit \(SWIFT\)](#) [53]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

16-2-A3.03-7631 ARC

[DAAS: Data Analytics for Assurance of Safety](#) [54]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

16-2-A2.02-7634 AFRC

[Safety Analysis For Evaluating \(SAFE\) sUAS](#) [55]

- **Iris Technology Corporation**

PO Box 15115

Irvine, CA 92623

Marguerite Slater (949) 975-8410

16-2-S1.09-7978 GSFC

[Deep Space Cryocooler System \(DSCS\)](#) [56]

- **Irvine Sensors Corporation**

3001 Red Hill Avenue, B3-108

Costa Mesa, CA 92626

Daryl Smetana (714) 444-8760

16-2-S3.09-7277 GSFC

[Bringing 3D Memory Cubes to Space: a "Rad-Hard by Design Study" with an Open Architecture](#) [57]

- **Kymeta Government Solutions**

12277 134th Court Northeast

Redmond, WA 98052

Jessica Stefani (425) 658-8705

16-2-H9.02-7669 GRC

[Ka-Band Electronically Steered CubeSat Antenna](#) [58]

- **Leiden Measurement Technology, LLC**

1240 Mountain View Alviso Road, Suite E

Santa Clara, CA 95054

Nathan Bramall (650) 605-3046

16-2-S1.06-7136 JPL

[A Compact Fluorescence Lifetime Excitation-Emission Spectrometer \(FLEXEMS\) for Detecting Trace Organics](#) [59]

- **Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

16-2-A1.06-7988 ARC

[Rapid In-Place Composite Rotor Damage Detection](#) [60]

- **Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

16-2-H5.03-7999 LaRC

[Integrated Structural Health Sensors for Inflatable Space Habitats](#) [61]

- **Luxel Corporation**

60 Saltspring Drive, PO Box 1879

Friday Harbor, WA 98250

Dianne Hall (360) 378-4137

16-2-S1.05-8269 GSFC

[LENA Conversion Foils Using Single-Layer Graphene](#) [62]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

16-2-H8.02-8130 GRC

[Advanced Anode Electrocatalysis Concept for Direct Methane SOFCs](#) [63]

- **M42 Technologies, LLC**

8043 Ashworth Avenue North

Seattle, WA 98103

Nestor Voronka (206) 792-5852

16-2-S3.05-7207 GSFC

[RF Crosslink for Relative Navigation and Time/Frequency Distribution](#) [64]

- **MagiQ Technologies, Inc.**

11 Ward Street

Somerville, MA 02143

Caleb Christensen (617) 661-8300

16-2-S3.08-7829 MSFC

[Fast-Light Enhanced Fiber Gyroscope](#) [65]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

16-2-S4.04-7385 JPL

[Bidirectional Dual Active Bridge Power Converter for Spacecraft Power Systems](#) [66]

- **Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

16-2-A2.01-8005 AFRC

[Aircraft Chemical Sensor Arrays for Onboard Engine and Bleed Air Monitoring](#) [67]

- **Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

16-2-S4.04-7816 JPL

[High Temperature, Radiation Hard Electronics Architecture for a Chemical Sensor Suite for Venus Atmospheric Measurements](#) [68]

- **Materials Modification, Inc.**

2809-K Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

16-2-H3.02-7349 ARC

[Multipurpose Waste Disposal Bags for Heat Melt Compactor Application](#) [69]

- **Metis Technology Solutions, Inc.**

2309 Renard Place Southeast, Suite 200

Albuquerque, NM 87106

Joy Colucci (650) 207-9378

16-2-A3.03-7397 ARC

[Intelligent Information Processing for Enhanced Safety in the NAS](#) [70]

- **MetroLaser, Inc.**

22941 Mill Creek Drive

Laguna Hills, CA 92653

Christina Arnold (949) 553-0688



16-2-H10.02-8292 SSC

[Plume Velocimetry Diagnostic for Large Rocket Engines](#) [71]

- **Michigan Aerospace Corporation**

1777 Highland Drive, Suite B

Ann Arbor, MI 48108

John Dodds (734) 975-8777

16-2-S4.01-7996 JPL

[Speed Sensor for Planetary EDL: ""SPRY""](#) [72]

- **Micro Cooling Concepts, Inc.**

7522 Slater Avenue, #122

Huntington Beach, CA 92647

Jack Fryer (714) 847-9945

16-2-A1.07-7705 GRC

[Injector-Integrated Fuel-Air Heat Exchanger Module](#) [73]

- **Mosaic ATM, Inc.**

540 Fort Evans Road, Suite 300

Leesburg, VA 20176

Chris Stevenson (540) 454-7458

16-2-A3.01-7271 ARC

[Simulation-Based Tool for Traffic Management Training](#) [74]

- **N&R Engineering**

6659 Pearl Road, #201

Parma Heights, OH 44130

Vinod Nagpal (440) 845-7020

16-2-A1.07-8448 GRC

[Design Concepts for Low Aspect Ratio High Pressure Turbines for High Bypass Ratio Turbofans](#) [75]

- **Nanohmics, Inc.**

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6201 East Oltorf Street, Suite 400

Austin, TX 78741

Steve Savoy (512) 389-9990

16-2-H8.01-7513 GRC

[Membrane-Supported Thermoelectric Generator](#) [76]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

16-2-H7.01-8243 ARC

[Flexible, High Char Yield Hybrid Sil Adhesive Materials for Next Generation Ablative Thermal Protection](#) [77]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

16-2-H7.02-8111 ARC

[High Sensitivity, High Frequency Sensors for Hypervelocity Testing and Analysis](#) [78]

- **Near Earth Autonomy, Inc.**

5001 Baum Boulevard, Suite 750

Pittsburgh, PA 15213

Marcel Bergerman (412) 513-6110

16-2-A2.02-7580 AFRC

[Autonomous Contingency Detection and Reaction for Unmanned Aircraft](#) [79]

- **NEI Corporation**

201 Circle Drive North, Suite 102/103

Piscataway, NJ 08873

Ganesh Skandan (732) 868-3141

16-2-A1.09-8166 GRC

[Performance Enhancement of Deicing Systems with the Use of an Anti-Ice Nano-Coating](#) [80]

- **Nirvana Energy Systems, Inc.**

3130 Alpine Road, Suite 288 Box 6

Portola Valley, CA 94028

Lambertus Hesselink (415) 269-7102

16-2-S3.01-7259 GRC

[Thermoacoustic Radioisotope Generator \(TRG\)](#) [81]

- **Nokomis, Inc.**

310 5th Street

Charleroi, PA 15022

Gena Johnson (724) 483-3946

16-2-A3.02-7084 ARC

[Hiawatha Aircraft Anti-Collision System](#) [82]

- **Opus 12, Inc.**

2342 Shattuck Avenue, #820

Berkeley, CA 94704

Kendra Kuhl (650) 291-5614

16-2-H1.01-8191 JSC

[In-Situ Ethylene and Methane Production from CO2 as Plastic Precursors](#) [83]

- **Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

16-2-S1.02-7333 JPL

[20GSps 6-bit Low-Power Rad-Tolerant ADC](#) [84]

- **Parabilis Space Technologies, Inc.**

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1195 Linda Vista Drive, Suite F

San Marcos, CA 92078

David Streich (855) 727-2245

16-2-S4.03-7586 JPL

[Novel Hybrid Propulsion System for Sample Return Missions](#) [85]

- **Picometrix, LLC**

2925 Boardwalk Drive

Ann Arbor, MI 48104

Shirley Evans (540) 961-6724

16-2-H13.02-7099 LaRC

[Differential Terahertz Imaging Methods for Enhanced Detection of Subsurface Features, Flaws, and Damage](#) [86]

- **Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 980-0890

16-2-H1.01-8072 JSC

[Extraterrestrial Metals Processing](#) [87]

- **Plasma Processes, LLC**

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

16-2-H2.02-7555 MSFC

[Joining of Tungsten Cermets Nuclear Fuel](#) [88]

- **Plasma Processes, LLC**

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

16-2-S3.02-8312 GRC

[Green Monopropellant Propulsion for Small Spacecrafts](#) [89]

- **Precision Combustion, Inc.**

410 Sackett Point Road

North Haven, CT 06473

Spencer Roux (203) 287-3700

16-2-H4.02-8157 JSC

[Novel Vacuum-Regenerable Trace Contaminant Control System for Advanced Spacesuit Applications](#) [90]

- **Protoinnovations,LLC**

5453 Albemarle Avenue

Pittsburgh, PA 15217

DIMITRIOS APOSTOLOPOULOS (412) 916-8807

16-2-H6.01-7882 JSC

[Retractable Robotic Anchor for Hard Rock and Granular Soils](#) [91]

- **Q-Peak, Inc.**

135 South Road

Bedford, MA 01730

B. David Green (978) 689-0003

16-2-S4.01-8277 JPL

[Ultra Compact Laser for 3D Imaging LIDAR](#) [92]

- **QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 03063

Mani Sundaram (603) 821-3092

16-2-S1.03-8513 JPL

[Megapixel Longwave Infrared SLS FPAs for High Spatial Resolution Earth Observing Missions](#) [93]

- **Qualtech Systems, Inc.**

100 Corporate Place Suite 220

Rocky Hill, CT 06067

Sudipto Ghoshal (860) 761-9341

16-2-H6.04-8219 ARC

[Integrating ISHM with Flight Avionics Architectures for Cyber-Physical Space Systems](#) [94]

- **Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 02472

Mary Abud (617) 668-6809

16-2-S1.06-8099 JPL

[Radiation Tolerant Temperature-Invariant Scintillation Modules](#) [95]

- **RAM Photonics**

4901 Morena Boulevard, Suite 128

San Diego, CA 92117

John Marciante (585) 771-7311

16-2-H9.01-7254 JPL

[Low-Power-Consumption Integrated PPM Laser Transmitter](#) [96]

- **Research in Flight**

1919 North Ashe Court

Auburn, AL 36830

Roy Hartfield (334) 444-8523

16-2-A1.05-7521 LaRC

[Robust Prediction of High Lift Using Surface Vorticity](#) [97]

- **Resonon, Inc.**

123 Commercial Drive

Bozeman, MT 59715

Mike Kehoe (406) 586-3356

16-2-S1.03-8518 JPL

[Lunar Spectral Irradiance Monitor](#) [98]

- **ROCCOR, LLC**

2602 Clover Basin Drive, Suite D

Louisville, CO 80027

Douglas Campbell (720) 200-0068

16-2-Z4.01-7700 MSFC

[Bonding and Analysis of Composite TRAC Booms for NASA Science Missions](#) [99]

- **San Diego Composites, Inc.**

9220 Activity Road

San Diego, CA 92126

Christine Benzie (858) 751-0450

16-2-H13.01-7712 LaRC

[Algorithms for Structural Dynamics Based Fiber Optic Strain Gage Health Monitoring](#) [100]

- **Scientific, Inc.**

6700 Odyssey Drive, Suite 105

Huntsville, AL 35806

Jane Christian (256) 319-0854

16-2-S3.03-7534 GRC

[Development of Diamond Vacuum Differential Amplifier for Harsh Environment Power Electronics](#) [101]

- **Sensor Creations, Inc.**

6609 Santa Rosa Road

Camarillo, CA 93012

Kadri Vural (805) 484-0444

16-2-S1.03-7310 JPL

[Novel Read-Out Integrated Circuit with Individual Pixel Programmability for Astronomy Infrared Focal Plane Arrays](#) [102]

- **Sequoia Scientific, Inc.**

2700 Richards Road

Bellevue, WA 98005

Wayne Slade (425) 641-0944

16-2-S1.08-7139 ARC

[Investigating an Instrument for Measurement of Hyperspectral Backscattering in Natural Waters](#) [103]

- **Serionix**

60 Hazelwood Drive

Champaign, IL 61820

James Langer (651) 503-3930

16-2-H4.02-7354 JSC

[Fiber-Based Adsorbents Tailored for PLSS Ammonia and Formaldehyde Removal](#) [104]

- **Spectral Energies, LLC**

5100 Springfield Street, Suite 301

Dayton, OH 45431

Sukesh Roy (937) 902-6546

16-2-A1.08-8296 LaRC

[High-Repetition-Rate Interferometric Rayleigh Scattering for Velocity, Density, and Temperature Meas](#) [105]

- **STAR Cryoelectronics, LLC**

25-A Bisbee Court

Santa Fe, NM 87508

Robin Cantor (505) 424-6454

16-2-H9.01-8402 JPL

[Superconducting Magnesium Diboride Thin Films for Ground Receiver Detectors](#) [106]

- **Stellarray, Inc.**

9210 Cameron Road, Suite 300

Austin, TX 78754



Mark Eaton (512) 997-7781

16-2-H12.03-8207 GRC

[Multi-Purpose X-ray System](#) [107]

- **Stottler Henke Associates, Inc.**

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2700

16-2-H6.04-8395 ARC

[Multiple Failure Response Procedure System](#) [108]

- **Swift Engineering, Inc.**

1141 Via Callejon

San Clemente, CA 92673

Phillip Mengden (949) 492-6608

16-2-S3.04-7657 GSFC

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- **Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Suzie Fosmore (310) 679-2281

16-2-A1.05-8105 LaRC

[Defining Handling Qualities of Unmanned Aerial Systems](#) [110]

- **Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Mark Deuser (812) 923-9591

16-2-H14.01-7565 JSC

[Sintered Inductive Metal Printer with Laser Exposure](#) [111]

- **Tendeg, LLC**

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

16-2-S1.02-7322 JPL

[High Frequency Reflective Mesh for Small Aperture Antennas](#) [112]

- **Tendeg, LLC**

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

16-2-S2.02-7091 JPL

[Solar Array for a Starshade Inner Disk](#) [113]

- **Tendeg, LLC**

686 South Taylor Avenue, Suite 108

Louisville, CO 80027

Gregg Freebury (303) 929-4466

16-2-S2.01-7911 JPL

[Robust Optical Edge for a Starshade Petal](#) [114]

- **Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

16-2-H9.02-7583 GRC

[OpenSWIFT-SDR for STRS](#) [115]

- **Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

16-2-H6.01-7743 JSC

[Modular Advanced Networked Telerobotic Interface System \(MANTIS\)](#) [116]

- **Tethers Unlimited, Inc.**

11711 North Creek Parkway South, Suite D113

Bothell, WA 98011

Robert Hoyt (425) 486-0100

16-2-H14.01-8013 JSC

[ERASMUS: Food Contact Safe Plastics Recycler and 3D Printer System](#) [117]

- **Tetra Research Corporation**

7919 N Boyd Way

Milwaukee, WI 53217

Rex Chamberlain (815) 872-0702

16-2-H10.02-7667 SSC

[Robust Cryogenic Cavitation Modeling for Propulsion Systems Ground Test Facilities](#) [118]

- **The Innovation Laboratory, Inc.**

2360 Southwest Chelmsford Avenue

Portland, OR 97201

Michelle Camarda (503) 242-1761

16-2-A3.01-7346 ARC

[Integrated Technologies Supporting Seamless Oceanic Transitions](#) [119]

- **The Peregrine Falcon Corporation**

1051 Serpentine Lane, Suite 100

Pleasanton, CA 94566

Robert Hardesty (925) 461-6800

16-2-H8.01-7759 GRC

[Liquid Interface Diffusion Bonding of FPS Heat Pipes to Core](#) [120]

- **Tietronix Software, Inc.**

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Victor Tang (281) 404-7222

16-2-H12.03-7975 GRC

[Novel Methods for the Flexible Ultrasound System Utilizing Augmented Reality Just-In-Time Procedural Guidance](#) [121]

- **Touchstone Research Laboratory, Ltd.**

The Millennium Centre, 1142 Middle Creek Road

Triadelphia, WV 26059

Brian Joseph (304) 547-5800

16-2-Z3.01-7393 MSFC

[Metal Matrix Composite Enhanced Aluminum Structures](#) [122]

- **TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

16-2-Z5.01-7920 JSC

[Context-Sensitive Augmented Reality for Mission Operations](#) [123]

- **TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

16-2-A2.01-7500 AFRC

[Cloud-Based Electronic Test Procedures](#) [124]

- **TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

16-2-H6.03-7501 ARC

[Integrating Standard Operating Procedures with Spacecraft Automation](#) [125]

- **Ultra Safe Nuclear Corporation**

186 Piedra Loop

Los Alamos, NM 87544

Paolo Venneri (858) 342-4837

16-2-H2.02-8468 MSFC

[Accident Tolerant Reactor Shutdown for NTP Systems](#) [126]

- **Virginia Diodes, Inc.**

979 Second Street, Southeast

Charlottesville, VA 22902

Thomas Crowe (434) 297-3257

16-2-S1.02-8474 JPL

[640 GHz Heterodyne Polarimeter](#) [127]

- **Voxel, Inc.**

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

16-2-S4.01-7330 JPL

[Robust, Low SWAP Planetary Entry, Descent and Landing System](#) [128]

- **White Light Power, Inc.**

149 Cuesta Drive

Los Altos, CA 94022

Eve Cohen (650) 492-0657

16-2-S1.02-7221 JPL

[Bulk GaN Schottky Diodes for Millimeter Wave Frequency Multipliers](#) [129]

- **Windhover Labs**

2115 Castle Drive

League City, TX 77573

Mathew Benson (832) 640-4018

16-2-A2.02-7076 AFRC

[Windhover Unmanned Aircraft Systems \(UAS\) Software Ecosystem](#) [130]

- **X-wave Innovations, Inc.**

407 Upshire Circle

Gaithersburg, MD 20878

Jennifer Duan (240) 686-9512

16-2-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](#) [131]

- **XL Scientific, LLC**

6100 Uptown Boulevard Northeast, Suite 260

Albuquerque, NM 87110

Susan Haverland (505) 244-8502

16-2-H11.01-7730 LaRC

[Process and Tool Innovation for CAD Integration with OLTARIS](#) [132]

- **ZONA Technology, Inc.**

9489 East Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

16-2-A1.01-8122 LaRC

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