



Proposals Selected for Negotiation of Contracts

Expand All

- **A1 Air Vehicle Technology (13)**

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](#) [1]

Aerodyne Research, Inc.

45 Manning Road

Billerica, MA 01821

Jiri Cistecky (978) 663-9500

16-2-A1.03-8523 GRC

[Electrometric Aviation Soot Monitor](#) [2]

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](#) [3]

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](#) [4]

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](#) [5]

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](#) [6]

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](#) [7]

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](#) [8]

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](#) [9]

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](#) [10]

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](#) [11]

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](#) [12]

ZONA Technology, Inc.

9489 East Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

16-2-A1.01-8122 LaRC

[Dynamic Flight Simulation Utilizing High Fidelity CFD-Based Nonlinear Reduced Order Model](#) [13]

- **A2 Integrated Flight Systems (8)**

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](#) [14]

Freedom Photonics, LLC

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](#) [15]

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](#) [16]

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](#) [17]

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](#) [18]

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](#) [19]

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](#) [20]

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](#) [21]

• **A3 Airspace Operations and Safety (9)**

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](#) [22]

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 \(ARCA\)](#) [23]

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](#) [24]

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](#) [25]

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 \(SWIFT\)](#) [26]

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](#) [27]

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](#) [28]

Nokomis, Inc.

310 5th Street

Charleroi, PA 15022

Gena Johnson (724) 483-3946

16-2-A3.02-7084 ARC

[Hiawatha Aircraft Anti-Collision System](#) [29]

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](#) [30]

• **H1 In-situ Resource Utilization (ISRU) (2)**

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](#) [31]

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](#) [32]

- **H2 Space Transportation (5)**

- **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](#) [33]

- **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](#) [34]

- **Creare, LLC**

- 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](#) [35]

- **Plasma Processes, LLC**

- 4914 Moores Mill Road

- Huntsville, AL 35811

- Timothy McKechnie (256) 851-7653

- 16-2-H2.02-7555 MSFC

[Joining of Tungsten Cermet Nuclear Fuel](#) [36]

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](#) [37]

• **H3 Life Support and Habitation Systems (4)**

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](#) [38]

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](#) [39]

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](#) [40]

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](#) [41]

- **H4 Extra-Vehicular Activity (EVA) (2)**

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](#) [42]

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](#) [43]

- **H5 Lightweight Structures and Materials (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](#) [44]

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 \(COBRA\)](#) [45]

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](#) [46]

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](#) [47]

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](#) [48]

• **H6 Autonomous and Robotic Systems (6)**

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](#) [49]

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](#) [50]

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](#) [51]

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](#) [52]

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 \(MANTIS\)](#) [53]

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](#) [54]

- **H7 Entry, Descent, and Landing (2)**

- **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](#) [55]

- **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](#) [56]

- **H8 High Efficiency Space Power (5)**

- **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](#) [57]

- **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](#) [58]

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](#) [59]

Nanohmics, Inc.

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Steve Savoy (512) 389-9990

16-2-H8.01-7513 GRC

[Membrane-Supported Thermoelectric Generator](#) [60]

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](#) [61]

• **H9 Space Communications and Navigation (6)**

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](#) [62]

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](#) [63]

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](#) [64]

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](#) [65]

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](#) [66]

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](#) [67]

- **H10 Ground Processing (3)**

- **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](#) [68]

- **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](#) [69]

- **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](#) [70]

- **H11 Radiation Protection (1)**

- **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 OLтарIS](#) [71]

- **H12 Human Research and Health Maintenance (3)**

- **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](#) [72]

- **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](#) [73]

- **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](#) [74]

- **H13 Non-Destructive Evaluation (NDE) (3)**

- **Eagle Harbor Technologies, Inc.**

- 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](#) [75]

Picomatrix, 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](#) [76]

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](#) [77]

• **H14 International Space Station (ISS) Demonstration & Development of Improved Exploration Technologies and Increased ISS Utilization (3)**

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 \(SPACEFORM\)](#) [78]

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](#) [79]

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](#) [80]

• **S1 Sensors, Detectors and Instruments (21)**

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](#) [81]

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](#) [82]

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](#) [83]

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](#) [84]

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](#) [85]

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](#) [86]

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](#) [87]

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](#) [88]

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](#) [89]

Iris Technology Corporation

PO Box 15115

Irvine, CA 92623

Marguerite Slater (949) 975-8410

16-2-S1.09-7978 GSFC

[Deep Space Cryocooler System \(DSCS\)](#) [90]

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](#) [91]

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](#) [92]

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](#) [93]

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](#) [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]

Resonon, Inc.

123 Commercial Drive

Bozeman, MT 59715

Mike Kehoe (406) 586-3356

16-2-S1.03-8518 JPL

[Lunar Spectral Irradiance Monitor](#) [96]

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](#) [97]

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](#) [98]

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](#) [99]

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](#) [100]

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](#) [101]

• **S2 Advanced Telescope Systems (4)**

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](#) [102]

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](#) [103]

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](#) [104]

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](#) [105]

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

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](#) [106]

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 \(DCIRU\)](#) [107]

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](#) [108]

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](#) [109]

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](#) [110]

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](#) [111]

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](#) [112]

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](#) [113]

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](#) [114]

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](#) [115]

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](#) [116]

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 \(TRG\)](#) [117]

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](#) [118]

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](#) [119]

Swift Engineering, Inc.

1141 Via Callejon

San Clemente, CA 92673

Phillip Mengden (949) 492-6608

16-2-S3.04-7657 GSFC

[Swift Ultra Long Endurance \(SULE\) Unmanned Air Vehicle \(UAV\)](#) [120]

• **S4 Robotic Exploration Technologies (7)**

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](#) [121]

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](#) [122]

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](#) [123]

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"](#) [124]

Parabilis Space Technologies, Inc.

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](#) [125]

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](#) [126]

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](#) [127]

• **S5 Information Technologies (1)**

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](#) [128]

• **Z1 Power & Energy Storage (1)**

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](#) [129]

- **Z2 Thermal Management (1)**

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](#) [130]

- **Z3 Advanced Manufacturing (1)**

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](#) [131]

- **Z4 Lightweight Structures and Materials (1)**

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](#) [132]

- **Z5 Robotics and Autonomous Systems (1)**

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](#) [133]

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