



## Proposals Selected for Negotiation of Contracts

- **ADA Technologies, Inc.**

8100 Shaffer Parkway, Suite 130

Littleton , CO 80127

Sheryl Suhr (303) 874-8262

08-2-X2.05-9375 GRC

[Advanced Portable Fine Water Mist Fire Extinguisher for Spacecraft](#) [1]

- **Adherent Technologies, Inc.**

9621 Camino del Sol NE

Albuquerque, NM 87111

Susan Switzer (505) 505-1685

08-2-X5.02-9458 KSC

[Dust Mitigation for the Lunar Surface](#) [2]

- **AdValue Photonics, Inc.**

4585 S. Palo Verde Road, Suite 405

Tucson, AZ 85714

Shibin Jiang (520) 790-5468

08-2-S1.01-9416 LaRC

[Q-Switched High Power Single Frequency 2 Micron Fiber Laser](#) [3]

- **Advanced Fuel Research, Inc.**

87 Church Street

East Hartford, CT 06108

Michael Serio (860) 860-9806

08-2-X2.03-9021 ARC

[A Compact, Efficient Pyrolysis/Oxidation System for Solid Waste Resource Recovery in Space111](#) [4]

- **Advanced Scientific Concepts, Inc.**

135 Ortega Street

Santa Barbara, CA 93101

JoAnn Stettner (805) 805-3331

08-2-S5.01-9625 JPL

[Flash3D EDL Sensor Technology Advancement](#) [5]

- **ADVR, Inc.**

2310 University Way, Building 1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

08-2-S1.01-9372 LaRC

[Compact, Wavelength Stabilized Seed Source for Multi-Wavelength Lidar Applications](#) [6]

- **Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 01821

George Wittreich (978) 932-0215

08-2-A2.02-9318 GRC

[An Ultra-Sensitive, Size Resolved Particle Mass Measurement Device](#) [7]

- **Aeronix, Inc.**

1775 W. Hibiscus Blvd., Suite 200

Melbourne, FL 32901

Judi Coleman (321) 984-1671

08-2-X5.01-8585 KSC

[Radiation Tolerant 802.16 Wireless Network](#) [8]

- **AEROPROBE**

1700 Kraft Drive, Suite 2350

Blacksburg, VA 24060

Demetri Telionis (540) 951-3858

08-2-S1.08-9310 GSFC

[A Fast-Response Atmospheric Turbulence \(FRAT\) Probe with Gas-Sampling Ducts](#) [9]

- **Aerotech Research**

11836 Fishing Point Drive, Suite 200

Newport News, VA 23606

Paul Robinson (757) 723-1300

08-2-A3.02-9120 LaRC

[In Situ Wake Vortex Encounter Detection and Reporting System](#) [10]

- **Aerotech Research**

11836 Fishing Point Drive, Suite 200

Newport News, VA 23606

Paul Robinson (757) 723-1300

08-2-A3.01-9117 LaRC

[Integration of Performance Based Operations into ATM and TFM Simulations](#) [11]

- **AM Biotechnologies, LLC**

12521 Gulf Freeway

Houston, TX 77034

Mark Shumbera (832) 295-1483

08-2-X10.01-9543 JSC

[Thioaptamer Diagnostic System](#) [12]

- **American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 805-0582

08-2-O2.02-8624 SSC

[Distributed Rocket Engine Testing Health Monitoring System](#) [13]

- **aPeak, Inc.**

63 Albert Road

Newton, MA 02466

Stefan Vasile (617) 964-1788

08-2-O1.06-9563 JPL

[High-Bandwidth Photon-Counting Detectors with Enhanced Near-Infrared Response](#) [14]

- **Applied Poleramic, Inc.**

6166 Egret Court

Benicia, CA 94510

Brian Hayes (707) 707-6738

08-2-X4.05-9752 LaRC

[Composite Matrix Systems for Cryogenic Applications](#) [15]

- **Applied Spectra, Inc.**

46661 Fremont Blvd.

Fremont, CA 94538

Richard Russo (925) 330-1431

08-2-S1.09-8929 ARC

[Laser Ablation - Optical Cavity Isotopic Spectrometer \(LAOCIS\)](#) [16]

- **Aptima, Inc.**

12 Gill Street, Suite 1400

Woburn, MA 01801

Richard Salvage (781) 781-2487

08-2-A3.01-9466 ARC

[Use-Driven Testbed for Evaluating Systems and Technologies \(U-TEST\)](#) [17]

- **Aries Design Automation, LLC**

6157 N Sheridan Road, Suite 16M

Chicago, IL 60660

Miroslav Velev (773) 773-6633

08-2-X1.02-8609 ARC

[An Efficient Parallel SAT Solver Exploiting Multi-Core Environments](#) [18]

- **Aspen Aerogels, Inc.**

30 Forbes Road, Bldg. B

Northborough, MA 01532

Kevin Schmidt (508) 691-1161

08-2-X7.01-9093 KSC

[Lightweight Non-Compacting Aerogel Insulation for Cryotanks](#) [19]

- **Atlas Scientific**

1367 Camino Robles Way

San Jose, CA 95120

Ali Kashani (408) 408-0906

08-2-X7.01-9289 JSC

[Regenerators for Liquid Hydrogen Cryocoolers](#) [20]

- **Aurora Flight Sciences Corporation**

9950 Wakeman Drive

Manassas, VA 20110

Scott Hart (617) 500-0536

08-2-A1.09-9907 ARC

[A Robust Flare Planning Logic for Unmanned Aerial Vehicle Applications](#) [21]

- **Aurora Flight Sciences Corporation**

9950 Wakeman Drive

Manassas, VA 20110

Scott Hart (617) 500-0536

08-2-X14.02-9864 JSC

[On Orbit Immuno-Based, Label-Free, White Blood Cell Counting System with MicroElectroMechanical Sensor \(MEMS\) Technology \(OILWBCS-MEMS\)](#) [22]

- **Bear Engineering**

2415 Two Turtles Road

Maidens , VA 23102

Tom Myrick (804) 240-0814

08-2-S5.02-9477 JPL

[Improved Rock Core Sample Break-off, Retention and Ejection System](#) [23]

- **Broadata Communications, Inc.**

2545 W. 237th Street, Suite K

Torrance, CA 90505

Debby Roussell (310) 310-1416

08-2-S4.01-9317 ARC

[Small Space Platform Enhanced Internet Protocol Stack Device](#) [24]

- **Busek Co., Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 508-5565

08-2-S2.01-8869 JPL

[Precise Thrust Actuation by a Micro RF Ion Engine](#) [25]

- **Busek Co., Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 508-5565

08-2-S4.01-8862 ARC

[ESPA Based Secondary Payload Orbit Maneuvering System](#) [26]

- **CFD Research Corporation**

215 Wynn Drive, 5th Floor

Huntsville, AL 35805

Silvia Harvey (256) 726-4858

08-2-A2.06-9653 LaRC

[A Comprehensive CFD Tool for Aerothermal Environment Around Space Vehicles](#) [27]

- **CoolCAD Electronics**

7101 Poplar Avenue

Takoma Park, MD 20912

Neil Goldsman (240) 240-6535

08-2-X1.03-8518 GSFC

[Electronics Modeling and Design for Cryogenic and Radiation Hard Applications](#) [28]

- **Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

08-2-X5.03-9734 JSC

[Compact, Efficient, and Reliable Ventilation Fan for EVA Suits](#) [29]

- **Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

08-2-X7.02-9609 GSFC

[An Advanced Cooling System for In-Situ Resource Utilization](#) [30]

- **Cybernet Systems Corporation**

727 Airport Boulevard

Ann Arbor, MI 48108

Norma Heller (734) 668-2567

08-2-X11.01-8978 JSC

[Automated Behavior and Cohesion Assessment Tools](#) [31]

- **Cybernet Systems Corporation**

727 Airport Boulevard

Ann Arbor, MI 48108

Norma Heller (734) 734-2567

08-2-S1.09-8507 JSC

[Grasp Algorithms For Optotactile Robotic Sample Acquisition](#) [32]

- **Cybernet Systems Corporation**

727 Airport Boulevard

Ann Arbor, MI 48108

Norma Heller (734) 668-2567

08-2-S4.02-8474 ARC

[Small Sat Analysis Laboratory](#) [33]

- **Dallas Optical Systems, Inc.**

1790 Connie Lane

Rockwall, TX 75032

John Casstevens (972) 564-1156

08-2-S2.04-9926 MSFC

[Low Cost Very Large Diamond Turned Metal Mirror](#) [34]

- **Deployable Space Systems (DSS)**

955 Nysted Drive

Solvang, CA 93463

Brian Spence (805) 693-1319

08-2-S3.03-8644 GRC

[High-Performance Elastically Self-Deployed Roll-Out Solar Array \(ROSA\)](#) [35]



- **Design\_Net Engineering LLC**

16080 Table Mountain Parkway, Suite 500

Golden, CO 80403

Tom Adams (303) 462-0096

08-2-S4.01-9499 ARC

[Enabling Technology for Small Satellite Launch](#) [36]

- **Discovery Semiconductors, Inc.**

119 Silvia Street

Ewing, NJ 08628

Abhay Joshi (609) 609-1311

08-2-S1.05-9434 GSFC

[Ultra-Low Noise Quad Photoreceiver for Space Based Laser Interferometric Gravity Wave Detection](#) [37]

- **DR Technologies, Inc.**

9431 Dowdy Drive

San Diego, CA 92126

Steven Sherman (858) 444-1826

08-2-S2.03-9065 JPL

[Affordable, Precision Reflector Mold Technology \(PDRT08-029-1\)](#) [38]

- **Eclipse Energy Systems, Inc.**

2345 Anvil Street North

St. Petersburg, FL 33710

Jay Wolfington (727) 344-7300

08-2-S4.01-9107 ARC

[Thermal Control Nano-Sat](#) [39]

- **EIC Laboratories, Inc.**

111 Downey Street

Norwood, MA 02062

David Rauh (781) 781-9450

08-2-X12.02-9041 JSC

[Flexible High-Barrier Polymers for Food Packaging](#) [40]

- **Electrolytic Research Corporation, LLC**

73 Winsor Road

Sudbury, MA 01776

Bruce Osterling (978) 443-9861

08-2-X3.02-9651 KSC

[Advanced Self-Heated Cell Reactor using Large Scale Inert Anode for Molten Oxide Electrolysis](#) [41]

- **EM4, Inc.**

7 Oak Park Drive

Bedford, MA 01730

Alex Rosiewicz (781) 275-7501

08-2-S1.01-9464 LaRC

[Efficient and Compact Semiconductor Laser Transmitter Modules](#) [42]

- **Emergent Space Technologies, Inc.**

6301 Ivy Lane, Suite 720

Greenbelt, MD 20770

Everett Cary (301) 301-1535

08-2-O2.01-9162 KSC

[Marine ASV Range Surveillance System](#) [43]

- **Fibertek, Inc.**

510 Herndon Parkway

Herndon, VA 20170

Tracy Perinis (703) 703-7671

08-2-S1.01-8652 GSFC

[Space-Qualifiable High Reliability Frequency-Stabilized CW Laser Source](#) [44]

- **Fibertek, Inc.**

510 Herndon Parkway

Herndon, VA 20170

Tracy Perinis (703) 471-7671

08-2-A1.04-8545 LaRC

[Fiber Laser Coherent Lidar for Wake-Vortex Hazard Detection](#) [45]

- **Futek Advanced Sensor Technology, Inc.**

10 Thomas

Irvine, CA 92618

John Vargas (949) 465-0900

08-2-S5.03-8527 JPL

[Space/Flight Operable Miniature Six Axis Transducer](#) [46]

- **GATS, Inc.**

11864 Canon Blvd., Suite 101

Newport News, VA 23606

Della Boscana (757) 952-1040

08-2-S1.04-8855 LaRC

[Digital Array Gas Radiometer \(DAGR\)](#) [47]

- **Giner Electrochemical Systems, LLC**

89 Rumford Avenue

Newton, MA 02466

Anthony Vaccaro (781) 529-0504

08-2-X6.01-9699 JPL

[Static Water Vapor Feed Electrolyzer](#) [48]

- **Giner Electrochemical Systems, LLC**

89 Rumford Avenue

Newton, MA 02466

Anthony Vaccaro (781) 529-0504

08-2-X2.02-9538 GRC

[Straight Pore Microfilter with Efficient Regeneration](#) [49]

- **Gloyer-Taylor Laboratories, LLC**

2212 Harton Blvd.

Tullahoma, TN 37388

Paul Gloyer (931) 931-5108

08-2-A2.02-9878 GRC

[Scramjet Combustion Stability Behavior Modeling](#) [50]

- **Group4 Labs, LLC**

1600 Adams Drive, Suite 112

Menlo Park, CA 94025

Felix Ejeckam (408) 887-6682

08-2-S1.02-9783 GSFC

[A 10kWatt 36GHz Solid-State Power Amplifier using GaN-on-Diamond](#) [51]

- **Hersh Acoustical Engineering, Inc.**

22305 Cairnloch Street

Calabasas, CA 91302

Alan Hersh (818) 224-4699

08-2-A2.03-9848 LaRC

[Numerical and Physical Modeling of the Response of Resonator Liners to Intense Sound and High Speed Grazing Flow](#) [52]

- **Honeybee Robotics Ltd.**

460 W 34th Street

New York, NY 10001

Chris Chapman (212) 966-0661

08-2-X5.01-8674 JSC

[Autonomous Utility Connector for Lunar Surface Systems](#) [53]

- **Horizon Performance**

121 Edinburgh S. Drive, Suite 214

Cary, NC 27511

John Thompson (919) 674-6644

08-2-X11.01-9344 JSC

[Behavior Tracking Software Enhancement and Integration of a Feedback Module](#) [54]

- **Impact Technologies, LLC**

200 Canal View Blvd.

Rochester, NY 14623

Carol Marquardt (585) 585-1923

08-2-A1.10-9580 GRC

[A Unified Nonlinear Adaptive Approach for Detection and Isolation of Engine Sensor, Actuator and Component Faults](#) [55]

- **Impact Technologies, LLC**

200 Canal View Blvd.

Rochester, NY 14623

Carol Marquardt (585) 585-1923

08-2-A1.11-8886 ARC

[Prognostic and Fault Tolerant Reconfiguration Strategies for Aerospace Power Electronic Controllers and Electric Machines](#) [56]

- **Infinity Fuel Cell and Hydrogen, Inc.**

431A Hayden Station Road

Windsor, CT 06095

William Smith (860) 688-6500

08-2-X6.01-9321 GRC

[Advanced Cathode Electrolyzer \(ACE\)](#) [57]

- **Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 310-2011

08-2-X2.04-9678 JPL

[Miniaturized, Multi-Analyte Sensor Array for the Automated Monitoring of Major Atmospheric Constituents in Spacecraft Environment](#) [58]

- **Innovative Scientific Solutions, Inc.**

2766 Indian Ripple Road

Dayton, OH 45440

Larry Goss (937) 429-4980

08-2-A2.09-9022 LaRC

[Fast Responding PSP for Rotorcraft Aerodynamic Investigations](#) [59]

- **Integrated Micro Sensors Inc.**

10814 Atwell Drive

Houston, TX 77096

David Starikov (713) 748-7926

08-2-S3.03-9731 GRC

[InGaN High Temperature Photovoltaic Cells](#) [60]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 400

Rockville, MD 20855

Mark James (301) 294-5221

08-2-A1.05-9507 LaRC

[Cognitive Modeling for Closed-Loop Task Mitigation](#) [61]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 400

Rockville, MD 20855

Mark James (301) 294-5221

08-2-O1.03-9360 GRC

[Reconfigurable, Cognitive Software Defined Radio](#) [62]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 400

Rockville, MD 20855

Mark James (301) 294-5221

08-2-A3.01-8875 ARC

[ACES-Based Testbed and Bayesian Game-Theoretic Framework for Dynamic Airspace Configuration](#) [63]

- **Intelligent Optical Systems, Inc.**

2520 W. 237th Street

Torrance, CA 90505

Lothar Kempen (424) 263-6362

08-2-S1.09-8964 ARC

[Lab on a Chip LCVR Polarimeter for Exploration of Life Signatures](#) [64]

- **inXitu, Inc.**

2551 Casey Avenue, Suite A

Mountain View, CA 94043

Philippe Sarrazin (650) 799-2118

08-2-S1.11-9560 ARC

[X-Ray Diffraction and Fluorescence Instrument for Mineralogical Analysis at the Lunar Surface](#) [65]

- **JENTEK Sensors, Inc.**

110-1 Clematis Avenue

Waltham, MA 02453

Joni Hatem (781) 781-9666

08-2-A1.02-8907 LaRC

[Micromechanical Models for Composite NDE and Diagnostics](#) [66]

- **k Technology Corporation**

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2000 Cabot Blvd. West, Suite 150

Langhorne, PA 19047

Adam Rosen (215) 375-3035

08-2-S3.02-9111 GSFC

[Integrated Composite - Heatpipe Radiator Panel](#) [67]

- **KromaTiD, Inc.**

515 E. Laurel Street

Fort Collins, CO 80524

F. Andrew Ray (970) 491-5976

08-2-X13.02-9726 JSC

[Chromatid Painting for Chromosomal Inversion Detection](#) [68]

- **Los Gatos Research**

67 East Evelyn Avenue, Suite 3

Mountain View, CA 94041

Anthony O'Keefe (650) 965-7772

08-2-S1.09-9383 JPL

[Novel Polymer Microfluidics Technology for In Situ Planetary Exploration](#) [69]

- **Los Gatos Research**

67 East Evelyn Avenue, Suite 3

Mountain View, CA 94041

Douglas Baer (650) 965-7772

08-2-A2.02-9195 GRC

[Novel Instrumentation for In Situ Combustion Measurements](#) [70]

- **Los Gatos Research**

67 East Evelyn Avenue, Suite 3

Mountain View, CA 94041

Anthony O'Keefe (650) 965-7772



08-2-O3.03-8945 KSC

[Photonic Sensor for Nondestructive Testing of Composite Overwrapped Pressure Vessels](#) [71]

- **Luminit, LLC**

1850 W. 205 Street

Torrance, CA 90501

Marie Todd (310) 310-1066

08-2-S1.04-8859 GSFC

[Integrated Spatial Filter Array](#) [72]

- **Luna Innovations Incorporated**

1 Riverside Circle, Suite 400

Roanoke, VA 24016

Shirley Evans (540) 769-8400

08-2-A4.01-9399 LaRC

[Versatile Fiber Optic 6-Component Force Measurement System](#) [73]

- **Lynntech, Inc.**

7610 Eastmark Drive

College Station, TX 77840

Cynthia Barnett (979) 693-0017

08-2-X10.01-9124 JSC

[Portable Cathode-Air-Vapor-Feed Electrochemical Medical Oxygen Concentrator](#) [74]

- **Lynntech, Inc.**

7610 Eastmark Drive

College Station, TX 77840

Cynthia Barnett (979) 693-0017

08-2-X2.04-9115 JPL

[Reagent-Free Compact Online TOC Sensor](#) [75]

- **M4 Engineering, Inc.**

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4020 Long Beach Blvd.

Long Beach, CA 90807

Myles Baker (562) 562-7797

08-2-A2.08-8438 GRC

[Integrated Multidisciplinary Optimization Objects](#) [76]

- **Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Susana Carranza (512) 512-0718

08-2-X3.02-9483 JSC

[Microchannel Methanation Reactors Using Nanofabricated Catalysts](#) [77]

- **MARK Resources, Inc.**

3878 Carson Street, Suite 210

Torrance, CA 90503

Richard Mitchell (310) 543-4746

08-2-O4.01-9264 KSC

[Tracking Launch Vehicles in Interference and Jamming](#) [78]

- **Materials Modification, Inc.**

2721-D Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 703-1371

08-2-X4.02-8428 ARC

[Multifunctional B/C Fiber Composites for Radiation Shielding](#) [79]

- **Materials Research and Design**

300 E. Swedesford Road

Wayne, PA 19087

Kerry Hopp (610) 964-9000

08-2-A2.01-8997 LaRC

[Calibration of 3D Woven Preform Design Code for CMC Materials](#) [80]

- **Michigan Engineering Services, LLC**

2890 Carpenter Road, Suite 1900

Ann Arbor, MI 48108

Nick Vlahopoulos (734) 734-0792

08-2-A2.09-9167 LaRC

[Hybrid Finite Element Analysis for Rotorcraft Interior Noise Simulations](#) [81]

- **Microcosm, Inc.**

4940 W. 147th Street

Hawthorne, CA 90250

Lynn Shimohara (310) 219-2700

08-2-X5.01-9850 ARC

[Lunar Navigator - A Miniature, Fully Autonomous, Lunar Navigation, Surveyor, and Range Finder System](#) [82]

- **Mobitrum Corporation**

8070 Georgia Avenue, Suite 207

Silver Spring, MD 20910

Ray Wang (301) 585-4040

08-2-O2.02-9981 SSC

[Passively Powered and Programmable Sensor-RFID for ISHM Systems](#) [83]

- **NanoSonic, Inc.**

1485 South Main Street

Blacksburg, VA 24060

Lisa Lawson (540) 953-1785

08-2-A1.01-9133 LaRC

[Hydrophobic Polymers with Adherend Complexing Sidechains as Durable Aerospace Adhesives](#) [84]

- **NanoSonic, Inc.**

1485 South Main Street

Blacksburg, VA 24060

Lisa Lawson (540) 953-1785

08-2-A2.09-8605 LaRC

[Metal Rubber Sensor Appliqu](#) [85]

- **nLight Photonics**

5408 NE 88th Street, Building E

Vancouver, WA 98665

Paul Leisher (360) 713-5230

08-2-S1.01-9608 LaRC

[Single-Frequency Semiconductor Lasers Operating at 1.5 and 2.0 microns](#) [86]

- **NP Photonics, Inc.**

9030 S. Rita Road

Tucson, AZ 85747

James Fountain (520) 520-7424

08-2-S1.01-9294 GSFC

[High SBS-Threshold Er/Yb Co-Doped Phosphate Glass Fiber Amplifiers for High Power, Sub-us Pulsed, Narrow Linewidth, All Fiber-Based Laser Transmitter](#) [87]

- **NP Photonics, Inc.**

9030 S. Rita Road

Tucson, AZ 85747

James Fountain (520) 520-7424

08-2-S1.01-9291 LaRC

[1.26 Single Frequency Fiber Laser](#) [88]

- **Nuvotronics, LLC**

7586 Old Peppers Ferry Loop

Radford, VA 24141

David Sherrer (540) 552-4610

08-2-S1.02-8501 JPL

[Microfabricated Millimeter-Wave Antenna Arrays](#) [89]

- **Nuvotronics, LLC**

7586 Old Peppers Ferry Loop

Radford, VA 24141

David Sherrer (540) 552-4610

08-2-O1.07-8443 JPL

[3D Microfabricated Low Loss Reconfigurable Components](#) [90]

- **NxGen Electronics, Inc.**

9771 Clairemont Mesa Blvd., Suite A

San Diego, CA 92124

Kathy Nasca (858) 858-6610

08-2-S1.03-9640 JPL

[Low Cost Automated Module Assembly for 180 GHz Devices](#) [91]

- **Optimal Synthesis, Inc.**

95 First Street, Suite 240

Los Altos, CA 94022

Victor Cheng (650) 559-8585

08-2-A3.02-8623 ARC

[Trajectory Design to Benefit Trajectory-Based Surface Operations](#) [92]

- **Parabon Computation, Inc.**

11260 Roger Bacon Drive, Suite 406

Reston, VA 20190

Paula Gawthorp-Armentrout (703) 703-9689

08-2-S6.05-9646 GSFC

[Software Infrastructure to Enable Modeling & Simulation as a Service \(M&SaaS\)](#) [93]

- **Phoebus Optoelectronics, LLC**

12 Desbrosses Street

New York, NY 10013

Thomas James (703) 703-7218

08-2-S1.04-8873 GSFC

[Polarimetric Multiwavelength Focal Plane Arrays for ACE and CLARREO](#) [94]

- **Photon Systems**

15112 Industrial Park Street

Covina, CA 91722

William Hug (626) 967-6431

08-2-S1.09-9227 JPL

[Deep UV Semiconductor Sources for Advanced Planetary Science Instruments](#) [95]

- **Photon Systems**

15112 Industrial Park Street

Covina, CA 91722

William Hug (626) 967-6431

08-2-S1.11-9152 ARC

[Deep UV Raman/Fluorescence \(DUV-RF\) Stand-Off Sensor for Lunar Science](#) [96]

- **Physical Optics Corporation**

20600 Gramercy Place, Bldg. 100

Torrance, CA 90501

Gordon Drew (310) 310-3088

08-2-S1.05-9717 GSFC

[Highly Efficient FUV Photodetector with AlGaN Nanowire Photocathode](#) [97]

- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

08-2-X4.01-9712 GRC

[High Performing, Low Temperature Operating, Long Lifetime, Aerospace Lubricants](#) [98]

- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

08-2-X6.02-9113 GRC

[Silicon Whisker and Carbon Nanofiber Composite Anode](#) [99]

- **Pioneer Astronautics**

11111 W. 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 303-0890

08-2-X3.03-9828 GRC

[Lunar Soil Particle Separator](#) [100]

- **Plasma Processes, Inc.**

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

08-2-X4.06-9326 MSFC

[Advanced Composite Thrust Chambers for the Altair Lunar Lander](#) [101]

- **Plasma Processes, Inc.**

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

08-2-X3.02-9756 KSC

[High Surface Area Iridium Anodes and Melt Containers for Molten Oxide Electrolysis](#) [102]

- **Plasma Processes, Inc.**

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

08-2-X5.02-9672 GRC

[Multi-Use Coating for Abrasion Prevention, Wear Protection, and Lunar Dust Removal](#) [103]

- **Polatomic, Inc.**

1810 N. Glenville Drive, #116

Richardson, TX 75081

Jean Isham (972) 972-0099

08-2-S1.06-8783 GSFC

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- **Princeton Optronics, Inc.**

1 Electronics Drive

Mercerville, NJ 08619

Narayan Bhatta (609) 584-9696

08-2-S1.01-9781 LaRC

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- **Progeny Systems Corporation**

9500 Innovation Drive

Manassas, VA 20110

Christine Sigety (703) 703-6107

08-2-O4.03-9024 GRC

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- **Pulsar Informatics, Inc.**

3624 Market Street, Suite 5E



Philadelphia, PA 19104

Daniel Mollicone (215) 520-2630

08-2-X11.01-8824 JSC

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- **QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 03063

Mani Sundaram (603) 821-3092

08-2-S1.04-8762 JPL

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- **QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 03063

Mani Sundaram (603) 821-3092

08-2-S1.05-9008 GSFC

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- **Qualtech Systems, Inc.**

100 Great Meadow Road, Suite 603

Wethersfield, CT 06109

Sudipto Ghoshal (860) 761-9341

08-2-X1.04-8866 ARC

[Efficient Integration, Validation and Troubleshooting in Multimodal Distributed Diagnostic Schemes](#) [110]

- **Quest Product Development Corporation**

4900 Iris Street

Wheat Ridge, CO 80033

Alan Kopelove (303) 670-5088

08-2-X7.01-9013 GSFC

[Load Responsive MLI: Thermal Insulation with High In-Atmosphere and On-Orbit Performance](#) [111]

- **RAPT Industries, Inc.**

46535 Fremont Blvd.

Fremont, CA 94538

Pradeep Subrahmanyam (510) 510-1001

08-2-S2.05-9938 GSFC

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- **Reactive Innovations, LLC**

2 Park Drive, Unit 4

Westford, MA 01886

Michael Kimble (978) 692-4664

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- **Reflective X-ray Optics, LLC**

1361 Amsterdam Avenue, Suite 3B

New York, NY 10027

David Windt (212) 212-4932

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- **Remote Sensing Solutions, Inc.**

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

Barnstable, MA 02630

James Canniff (508) 362-9400

08-2-S1.02-8521 GSFC

[A High Cross-Pol Isolation Multi-Frequency Antenna for Cloud and Precipitation Research](#) [115]

- **Remote Sensing Solutions, Inc.**

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

Barnstable, MA 02630

James Canniff (508) 362-9400

08-2-S1.02-8466 JPL

[A Novel Low-cost, Ka-band, High Altitude, Multi-Baseline Unmanned Aerial Vehicle Sensor for Surface Water Ocean Topography](#) [116]

- **RNET Technologies, Inc.**

240 W Elmwood Drive, Suite 2010

Dayton, OH 45459

V. Nagarajan (937) 433-2886

08-2-X1.03-8589 LaRC

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- **S&K Aerospace**

63066 Old Highway 93

St Ignatius, MT 59865

Arthur Molin (281) 636-5592

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- **Scientific Systems Company, Inc.**

500 West Cummings Park, Suite 3000

Woburn, MA 01801

Raman Mehra (781) 781-5355

08-2-S2.01-8499 JPL

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- **Shape Change Technologies**

1731 Hendrix Avenue

Thousand Oaks, CA 91360

Peter Jardine (805) 805-5665

08-2-A2.01-8646 GRC

[Development of Fast Response SME TiNi Foam Torque Tubes](#) [120]

- **SIFT, LLC**

211 N. First Street, Suite 300

Minneapolis, MN 55401

David Musliner (612) 325-9314

08-2-X1.01-8449 ARC

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- **Sol-gel Solutions, LLC**

4110 SW 34th Street, Suite 22

Gainesville, FL 32608

JR Rogers (352) 352-4950

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- **Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505

Alan Stanton (505) 984-1322

08-2-S1.08-9542 ARC

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- **SPEC, Inc.**

3022 Sterling Circle, Suite 200

Boulder, CO 80301

June Turnbull (303) 303-1105

08-2-S1.08-9098 GSFC

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- **Streamline Automation, LLC**

3100 Fresh Way SW

Huntsville, AL 35805

Alton Reich (256) 256-1220

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- **Superior Graphite Co.**

10 South Riverside Plaza, Suite 1470

Chicago, IL 60606

Francois Henry (773) 209-4793

08-2-X6.02-8492 GRC

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- **Surface Optics Corporation**

11555 Rancho Bernardo Road

San Diego, CA 92127

Jill Trolinger (858) 583-4362

08-2-S2.05-8681 JPL

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- **SynGenics Corporation**

5190 Olentangy River Road

Delaware, OH 43015

Carol Ventresca (740) 369-9579

08-2-A2.10-8761 GRC

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- **Systems Technology, Inc.**

13766 South Hawthorne Blvd.

Hawthorne, CA 90250

Suzie Fosmore (310) 310-2281

08-2-A4.02-9033 AFRC

[Fused Reality for Enhanced Flight Test Capabilities](#) [129]

- **Tai-Yang Research Company**

9112 Farrell Park Lane

Knoxville, TN 37922

William Marshall (865) 865-7261

08-2-S1.07-9379 GSFC

[Hybrid High-Temperature Superconductor Current Leads for Space Applications](#) [130]

- **TDA Research, Inc.**

12345 W. 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 303-2300

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- **Tech-X Corporation**

5621 Arapahoe Avenue, Suite A

Boulder, CO 80303

Leslie Rosczyk (720) 720-1855

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- **Techno-Sciences, Inc.**

11750 Beltsville Drive, Suite 300

Beltsville, MD 20705

Sandra Selha (240) 790-0620

08-2-A1.07-9537 LaRC

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- **Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Mark Deauser (812) 812-9591

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- **Teranovi Technologies**

10033 NE 140th Street

Bothell, WA 98011

Xudong Wang (425) 820-9853

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- **The DNA Medicine Institute**

727 Massachusetts Avenue

Cambridge, MA 02139

Eugene Chan (617) 233-7656

08-2-X10.01-9385 JSC

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- **Thermacore, Inc.**

780 Eden Road

Lancaster, PA 17601

Nelson Gernert (717) 519-5817

08-2-X6.01-8889 GRC

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- **Touchstone Research Laboratory, Ltd.**

The Millennium Centre, 1142 Middle Creek Road

Triadelphia, WV 26059

Janet Joseph (304) 547-5800

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- **Traclabs, Inc.**

100 N.E. Loop 410 Suite 520

San Antonio, TX 78217

David Kortenkamp (281) 281-7884

08-2-X1.01-9682 ARC

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- **Traclabs, Inc.**

100 N.E. Loop 410 Suite 520

San Antonio, TX 78217

David Kortenkamp (281) 461-7884

08-2-X12.01-9244 JSC

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- **Traclabs, Inc.**

100 N.E. Loop 410 Suite 520

San Antonio, TX 78217

David Kortenkamp (281) 461-7884

08-2-O1.09-9103 JPL

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- **TRS Ceramics, Inc.**

2820 East College Avenue

State College, PA 16801

Wesley Hackenberger (814) 238-7485

08-2-A2.01-9769 AFRC



[Piezoelectric Structural Microensor Technology for Extreme Environments \(> 1800 F\)](#) [142]

- **TRS Ceramics, Inc.**

2820 East College Avenue

State College, PA 16801

Wesley Hackenberger (814) 238-7485

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- **Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 818-0236

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- **UMPQUA Research Company**

PO Box 609

Myrtle Creek, OR 97457

John Aker (541) 541-2655

08-2-X2.03-8729 ARC

[Brine Dewatering Using Ultrasonic Nebulization](#) [145]

- **Vega Wave Systems, Inc.**

1275 W Roosevelt Road, Suite 104

West Chicago, IL 60185

Alan Sugg (630) 630-9433

08-2-O1.06-9602 JPL

[High-Efficiency, High-Power Laser Transmitter for Deep-Space Communication](#) [146]

- **Ventions, LLC**

818 Duncan Street

San Francisco, CA 94131

Amit Mehra (202) 213-2846

08-2-S5.04-9735 JPL

[Small, Light-Weight Pump Technology for On-Board Pressurization of Propellants in a Mars Ascent Vehicle](#) [147]

- **Vista Photonics, Inc.**

67 Condesa Road

Santa Fe, NM 87508

Jeffrey Pilgrim (505) 466-3953

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- **WEVOICE, Inc.**

9 Sylvan Drive

Bridgewater, NJ 08807

Sherry Ye (908) 575-8955

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[Superior Speech Acquisition and Robust Automatic Speech Recognition for Integrated Spacesuit Audio Systems](#) [149]

- **Whittinghill Aerospace, LLC**

265 Durley Avenue, Suite 208

Camarillo, CA 93010

George Whittinghill (805) 805-2297

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[A Modular Minimum Cost Launch System for Nano-Satellites](#) [150]

- **Xigen, LLC**

11001 Sugarbush Terrace

Rockville, MD 20852

Jason Geng (301) 637-6828

08-2-O2.01-9918 KSC

[Novel Smart Pan/Tilt/Zoom Sensor for Launch Range Video Surveillance](#) [151]

- **Zona Technology, Inc.**

9489 E. Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

08-2-A2.04-8952 LaRC

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