



Proposals Selected for Negotiation of Contracts

- **Regher Solar, LLC**

7700 South River Parkway

Tempe, AZ 85284

Stanislau Herasimenka (520) 838-9404

22-1-S16.01-2323 GRC

[Improving Silicon Solar Cell Efficiency with LUVCON coating](#) [1]

- **A-Terra LLC**

5305 River Road North Suite B

Keizer, OR 97303

Anna Nakano (541) 602-4153

22-1-Z12.01-2885 JPL

[High purity oxygen separation from a pyrolysis gas mixture by rapid solid oxide ion transport](#) [2]

- **A-Z INNOVATIVE SOLUTIONS LLC**

59 Apsley Street Suite #2

Hudson, MA 01749

Marina Zhang (508) 635-7870

22-1-S12.04-2252 MSFC

[Low-cost Ultra-high Precision X-Ray Mirror Surface Deterministic Finishing](#) [3]

- **Acellent Technologies Inc.**

835 Stewart Drive

Sunnyvale, CA 94085

Amrita Kumar (408) 307-4189

22-1-H5.05-2174 MSFC

[Flexible multifunctional Structural Health Monitoring systems for inflatable space habitat structures](#) [4]

- **Ad Astra Rocket Company**

141 West Bay Area Boulevard

Webster, TX 77598

Franklin Chang-Diaz (281) 526-0518

22-1-Z10.04-2369 GRC

[Improved Thermo-Mechanical Design of the VASIMR RF Coupler](#) [5]

- **Adirondack IT Solutions, LLC**

3807 State Route 5

Frankfort, NY 13340

Ronny Bull (844) 224-6170

22-1-H9.07-1529 GRC

[Reactive Routing: Harnessing Advanced Software Modems](#) [6]

- **Advanced Analyzer Labs, Inc.**

3982 Old Columbia Pike

Ellicott City, MD 21043

Huapeng Huang (301) 708-7759

22-1-Z4.05-2504 LaRC

[In-Process X-ray Sensor for Additive Manufacturing](#) [7]

- **Advanced Ceramics Manufacturing**

7800 South Nogales Highway

Tucson, AZ 85756

Mark Angier (520) 547-0850

22-1-Z10.04-1388 GRC

[High Emissivity Channel Materials](#) [8]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

22-1-H3.08-1742 ARC

[Novel Vapor Chambers for Heating and Cooling of Advanced Sorption Systems](#) [9]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

22-1-S16.01-1744 GRC

[TRAP \(Thermo-Radiative Assisted Photovoltaic\) Cell to Simultaneously Harvest Incoming Solar and Outgoing Thermal Radiation](#) [10]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

22-1-S16.05-1746 GSFC

[Hybrid Manufacturing Process of Loop Heat Pipe Evaporator](#) [11]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

22-1-Z2.01-1749 GRC

[Hot End Thermal Management System for Nuclear Electric Propulsion](#) [12]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

22-1-Z10.04-1751 GRC

[Passive Two-Phase Thermal Management System for Hall Thruster](#) [13]

- **Advanced Science and Novel Technology**

27 Via Porto Grande

Rancho Palos Verdes , CA 90275

Vladimir Katzman (310) 528-2532

22-1-S11.03-1089 JPL

[Ultra High Speed Digitizer with Integrated Synchronized Clock Source and Rad Hard SPI](#) [14]

- **Advent Diamond Inc**

1475 N Scottsdale Road, Street 200

Scottsdale, AZ 85257

Manpuneet Benipal (480) 287-2666

22-1-S14.02-2896 GSFC

[Solar-blind solid-state energetic particle detection for next-generation instruments](#) [15]

- **Aeris, LLC**

1021 Main Street

Louisville, CO 80027

Paul Bieringer (720) 370-9012

22-1-A3.04-2285 ARC

[Unmanned Aircraft Systems Traffic Management \(UTM\) System for Wildfire Response](#) [16]

- **Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 01821

David Gordon (978) 663-9500

22-1-A1.03-2154 LaRC

[Humidity probe for contrail-cirrus avoidance](#) [17]

- **Aerosol Dynamics, Inc.**

935 Grayson Street

Berkeley, CA 94710

Susanne Hering (510) 649-9360

22-1-Z13.04-2399 GRC

[A Particulate Air Quality Monitor for Manned Lunar Explorations](#) [18]

- **Ahmic Aerospace**

400 Sugar Camp Circle, Suite 302

Dayton, OH 45409

Ryan Meritt (937) 272-5880

22-1-Z7.04-1934 ARC

[Wall Shear Measurement Technology for Plume Surface Interactions](#) [19]

- **AI Biosciences, Inc.**

1902 Pinon Drive, Suite C

College Station, TX 77845

Season Wong (979) 450-3602

22-1-S13.04-2412 JPL

[A Microgravity-Compatible Handheld Squeegee-Aspirator Surface Sampler \(SASS\)](#) [20]

- **Air Squared, Inc.**

510 Burbank Street

Broomfield, CO 80020

Bryce Shaffer (513) 238-9778

22-1-S16.04-1028 JPL

[Helium Transfer Scroll Pump System \(HTSPS\)](#) [21]

- **Aktiwave**

150 Lucius Gordon Drive

West Henrietta, NY 14586

Christophe Dorrer (585) 355-2706

22-1-S11.01-2430 GSFC

[Monolithic Q-switched waveguide laser fabricated by ultrafast laser inscription for pulsed lidar source](#) [22]

- **All Azimuth Solutions, LLC**

47 Limerick Lane

Magnolia, DE 19962

James Herrera (402) 850-6779

22-1-A2.03-2875 HQ

[Electronic Community AAM Toolkit](#) [23]

- **Alphacore, Inc.**

304 South Rockford Drive

Tempe, AZ 85281

Esko Mikkola (480) 494-5618

22-1-Z1.05-2466 GRC

[A Radiation Hardened, Digitally Controlled, Phase-Shifted Full-Bridge Isolated DC-DC Converter](#) [24]

- **American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

22-1-A2.02-1558 AFRC

[Flexible Aerial Systems Testing with the Reconfigurable and Expandable Payload \(FAST-REP\)](#) [25]

- **American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

22-1-H10.02-2523 KSC

[Autonomous Operations Technologies for Ground and Launch Systems \(SBIR\)](#) [26]

- **Analytical Scientific Products LLC**

4616 Willow Lane, Dallas

Dallas, TX 75244

Vijay Devarakonda (781) 219-7625

22-1-Z13.04-1862 GRC

[Lunar Dust Filtration and Collection System](#) [27]

- **Antech Systems, Inc.**

510 Independence Parkway, Suite 100

Chesapeake, VA 23320

Vincent Martinez (757) 547-2828

22-1-Z4.05-1156 LaRC

[Advanced Damage Criticality Analysis in Complex Structures](#) [28]

- **Applied Material Systems Engineering, Inc. (AMSENG)**

2309 Pennsbury Court

Schaumburg, IL 60194-3884

Mukund Deshpande (630) 372-9650

22-1-S16.05-1989 GSFC

[Novel Coating Concepts for Lunar Regolith Dust Mitigation for Thermal Radiators and Extreme Environments](#) [29]

- **Applied Sciences, Inc.**

141 West Xenia Avenue

Cedarville, OH 45314

Maria Baker (937) 766-2020

22-1-H5.02-1883 LaRC

[Nano Nucleation of Unique Long Range Order Materials via Seed Crystals](#) [30]

- **Architecture Technology Corporation**

9971 Valley View Road

Eden Prairie, MN 55344

Akeem Adewusi (952) 829-5864

22-1-A2.03-1182 HQ

[Developing Local Knowledge for Advanced Air Mobility \(DLK\)](#) [31]

- **Aries Design Automation, LLC**

2705 West Byron Street

Chicago, IL 60618

Miroslav Velev (773) 856-6633

22-1-Z2.02-2779 JPL

[Design and Formal Verification of a Fault-Tolerant RISC-V Processor Core Augmented to Accelerate Image and Science Data Processing](#) [32]

- **Ascending Node Technologies, LLC**

2548 East 4th Street

Tucson, AZ 85716

Sanford Selznick (520) 314-5595

22-1-S17.02-1941 GSFC

[Coverage and Access Analysis in Spaceline](#) [33]

- **Astrobotic Technology, Inc.**

1016 North Lincoln Avenue

Pittsburgh, PA 15233

Michael Provenzano (845) 399-0843

22-1-Z14.02-1779 MSFC

[Brick Ubiquitous and Itinerant Lunar Deposition System](#) [34]

- **ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Joe Isaacs (408) 736-2822

22-1-A3.04-1715 ARC

[Resilient Network Planning and Disruption Management for Urban Air Mobility Operations](#) [35]

- **Atmospheric & Space Technology Research Associates, LLC**

282 Century Place, Suite 1000

Louisville, CO 80027

Rachel Hauser (303) 993-8039

22-1-S14.03-1829 GSFC

[Compact All Sky Interferometric Doppler Imager \(CASIDI\)](#) [36]

- **Atmospheric & Space Technology Research Associates, LLC**

282 Century Place, Suite 1000

Louisville, CO 80027

Erica Hicks (303) 993-8039

22-1-S14.01-1861 GSFC

[Dragster: An Ensemble Assimilative Model for Satellite Drag](#) [37]

- **Aureus Innovation, LLC**

200 West 2nd Street, P.O. BOX 1072

Royal Oak, MI 48068

Brian Smith (248) 345-3486

22-1-S17.02-1504 JPL

[Architecture Decision Modeling & Automated Tradespace Formulation](#) [38]

- **Avilution, LLC**

115 Houston Goodson Way SouthWest

Huntsville, AL 35824

Mark Spencer (256) 694-4569

22-1-A2.02-2461 GRC

[Resilient Autonomous Flight Systems using Sensor Fusion and Enhanced Emergency Operations](#) [39]

- **Bayesics, LLC**

12747 Hillmeade Station Drive

Bowie, MD 20720

Kwo-Sen Kuo (202) 492-3408

22-1-S11.06-2820 GSFC

[Spatiotemporally Aligned POSIX-Compliant Data Store for Event-based Analysis](#) [40]

- **BEAM Engineering for Advanced Measurements**

1300 Lee Road

Orlando, FL 32810

Anna Tabirian (407) 734-5222

22-1-S12.01-2830 JPL

[Next generation vector vortex waveplates for astronomical coronagraphs](#) [41]

- **Black Swift Technologies, LLC**

2848 Wilderness Place Suite D

Boulder, CO 80301

Jack Elston (720) 638-9656

22-1-S16.04-2763 ARC

[All Weather UAS for Long Term Unattended Environmental Observations](#) [42]

- **Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

22-1-Z12.01-2721 GRC

[Feed and Removal of Regolith for Oxygen Extraction](#) [43]

- **Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

22-1-Z14.02-2297 MSFC

[Lunar Articulating Mirror Array](#) [44]

- **Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

22-1-Z4.07-2655 LaRC

[Solar On-orbit Welder for Assembly, Repair, and Manufacturing](#) [45]

- **BNNT, LLC**

300 Ed Wright Lane Suite A

Newport News, VA 23606

Stacy Jarrell (757) 369-1939

22-1-H5.02-2416 AFRC

[Boron Nitride Nanotube-Enhanced Hot Structure Technology for Aerospace Vehicles](#) [46]

- **Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

22-1-S13.01-1991 JPL

[Compatible High-res 3D Vision System](#) [47]

- **Brisk Computing, LLC**

1191 Red Ash Court

Centerville, OH 45458

Tarek Taha (937) 765-7742

22-1-H6.22-2330 GRC

[Adaptive Neuromorphic Processors for Cognitive Communications](#) [48]

- **CASCADE Technologies, Inc.**

2445 Faber Place, Suite 100

Palo Alto, CA 94303

Guillaume Bres (650) 521-0243

22-1-A1.02-1592 GRC

[GPU-accelerated LES framework for aeroacoustic predictions of integrated systems](#) [49]

- **CFD Research Corporation**

6820 Moquin Drive NorthWest

Huntsville, AL 35806

Silvia Harvey (256) 715-6918

22-1-Z7.04-1530 MSFC

[Rapid Parametric Sensitivity Analysis for Plume-Surface Interaction Simulations](#) [50]

- **CFD Research Corporation**

6820 Moquin Drive NorthWest

Huntsville, AL 35806

Silvia Harvey (256) 715-6918

22-1-Z1.06-1533 GSFC

[Radiation-Tolerant High-Voltage GaN Devices for Space Power Applications](#) [51]

- **CFD Research Corporation**

6820 Moquin Drive NorthWest

Huntsville, AL 35806

Silvia Harvey (256) 715-6918

22-1-A1.01-1525 LaRC

[Configurable Parametric Aeroservoelastic Reduced-order Models for Aerostructural Sensing and Control](#) [52]

- **CFD Research Corporation**

6820 Moquin Drive NorthWest

Huntsville, AL 35806

Silvia Harvey (256) 715-6918

22-1-S17.04-1526 GSFC

[Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning](#) [53]

- **CFD Research Corporation**

6820 Moquin Drive NorthWest

Huntsville, AL 35806

Silvia Harvey (256) 715-6918

22-1-A1.05-1527 GRC

[High-Resolution Unstructured Mesh Refinement Framework for Aircraft Icing Predictions](#) [54]

- **CGC Ultramarine Ltd.**

8848 Stonehenge Drive

Pickerington, OH 43147

Codrin-Gruie Cantemir (614) 260-1406

22-1-A1.06-1369 GRC

[Single Fluid Tuned Winding Induction Motors](#) [55]

- **Charles River Analytics, Inc.**

625 Mount Auburn Street

Cambridge, MA 02138

Mark Felix (617) 234-5073

22-1-S11.06-1610 JPL

[Wildfire Integrated Modeling, Prediction, and Learning Environment \(WIMPLE\)](#) [56]

- **Chascii Inc.**

1879 East Altadena Drive

Altadena, CA 91001

Jose Velazco (626) 590-4268

22-1-Z8.02-2283 GSFC

[Lunar Inter-Spacecraft Optical Communicator](#) [57]

- **ChemCubed, LLC.**

1000, Innovation Road

Stony Brook, NY 11794

Dan Slep (631) 848-2950

22-1-Z8.10-1283 ARC

[On Demand Printing of Stretchable Electronics](#) [58]

- **Circle Optics, Inc.**

260 East Main Street, Suite 6107

Rochester, NY 14604

Ian Gauger (315) 879-3034

22-1-A2.02-2214 AFRC

[Enhanced Detect and Avoid Optical Sensing for Urban Air Mobility](#) [59]

- **Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Neeraj Sinha (215) 766-1520

22-1-A1.03-1266 GRC

[A Software Toolkit to Develop OpenNCC Chemistry Models On-Demand Targeting Sustainable Aviation Fuel Blends with Soot Precursors](#) [60]

- **Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Neeraj Sinha (215) 766-1520

22-1-Z10.01-1069 MSFC

[Film Condensation Modeling in Cryogenic Tank Applications](#) [61]

- **Continuous Composites Inc.**

215 East Lakeside Avenue

Coeur d'Alene, ID 83814

Terry Cambron (502) 377-8741

22-1-S12.02-2095 JPL

[Additive Manufacturing of Low CTE Open Isogrid Composite Structure](#) [62]

- **Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Melissa Kinney (609) 538-0444

22-1-A1.01-1703 LaRC

[Mid-Fidelity CFD-Based Aeroservoelastic Analysis Method for Supporting Design and Testing](#) [63]

- **Continuum Space Systems, Inc.**

600 Playhouse Alley

Pasadena, CA 91101

Loic Chappaz (765) 464-4883

22-1-H9.03-1333 MSFC

[Automated and Visually Interactive Navigation Analysis](#) [64]

- **Controlled Dynamics Inc.**

18141 Beach Boulevard, Suite 170

Huntington Beach, CA 92648

Scott Green (562) 735-3065

22-1-H9.01-2383 JPL

[Platform Isolation and Pointing Control](#) [65]

- **Converter Source, LLC**

16922 South Canaan Road

Athens, OH 45701

James Huth (646) 306-4824

22-1-S16.07-2110 JPL

[Multi-Lift-Temperature Stirling Cryocooler and Controller for CubeSat Platform](#) [66]

- **CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar

22-1-S13.03-2374 GSFC

[Silicon Carbide High Temperature Solid State Memory](#) [67]

- **CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar

22-1-S12.06-1903 GSFC

[Integrated SiC Photodiode Arrays for UV-Spectroscopic Applications](#) [68]

- **Cornerstone Research Group, Inc.**

510 Earl Boulevard

Miamisburg, OH 45342

Jackie Luce (937) 320-1877

22-1-Z4.07-1146 LaRC

[Basalt Fiber-Reinforced Sulfur Polymer Matrix Composites](#) [69]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Patrick Magari (603) 643-3800

22-1-S16.07-1786 GSFC

[Low Cost Cryocooler Control Electronics for Space Missions](#) [70]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Patrick Magari (603) 643-3800

22-1-Z2.01-1555 JSC

[A Compact, Gravity-Insensitive Gas Trap for Extreme Temperature Environments](#) [71]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Patrick Magari (603) 643-3800

22-1-Z10.01-1870 GRC

[Compressor for Efficient On-Orbit Gas Transfer](#) [72]

- **Crown Consulting, Inc.**

1400 Key Boulevard, Suite 1100

Arlington, VA 22209

Shahab Hasan (703) 650-0663

22-1-A3.01-2181 LaRC

[Machine Learning Approach for Predicting Persistent Contrails Formation Region](#) [73]

- **Crown Consulting, Inc.**

1400 Key Boulevard, Suite 1100

Arlington, VA 22209

Ruben Del Rosario (571) 451-9265

22-1-A3.02-1179 LaRC

[Vertiport Human Automation Teaming Toolbox](#) [74]

- **CU Aerospace, LLC**

3001 Newmark Drive

Champaign, IL 61822

David Carroll (217) 239-1703

22-1-S16.07-1168 JPL

[Three-Stage Cryocooler Cold Head for Advanced Heterodyne Sensors](#) [75]

- **CU Aerospace, LLC**

3001 Newmark Drive

Champaign, IL 61822

David Carroll (217) 239-1703

22-1-Z8.13-1205 MSFC

[Quick Turn Pulsed Plasma Thruster \(QT-PPT\) for Deorbiting Applications](#) [76]

- **D&P, LLC**

3409 North 42nd Place

Phoenix, AZ 85018

Lei Tang (480) 518-0981

22-1-A1.02-1556 GRC

[A Wall-Modeled Large-Eddy-Simulation Tool for Fan Broadband Noise Prediction](#) [77]

- **D2K Technologies**

5062 Nighthawk Way

Oceanside, CA 92056

Federico Piatti (414) 416-2967

22-1-H10.01-1221 SSC

[Monitoring and Advisory System for Solenoid Operated Valves](#) [78]

- **DSTAR Communications**

4531 Dulcinea Court

Woodland Hills, CA 91364

Svetlana Prikhodko (818) 512-8802

22-1-H8.01-2777 JSC

[Space Enhanced Crystals \(SPECS\)](#) [79]

- **Dynovas, Inc.**

12250 Iavelli Way

Poway, CA 92064

Quinn McAllister (508) 717-7494

22-1-H5.01-2879 LaRC

[Motorless Expandable Solar Array \(MESA\)](#) [80]

- **Electra Aero Inc**

218 North Cherry Street

Falls Church, VA 22046

Tina McGovern (540) 660-2917

22-1-S16.04-1968 ARC

[MDO, Rapid Prototyping, and Experimental Validation of HALE Aircraft Propulsion and Avionics Systems](#) [81]

- **Eos Energetics Inc**

1295 H Street

Penrose, CO 81240

Karl Kulling (845) 926-2694

22-1-S13.02-1965 JPL

[High-Capability Hybrid Rocket Motor with Novel Restartable Ignition System for Sample Return Missions](#) [82]

- **EpiSys Science, Inc.**

13025 Danielson Street, Suite 106

Poway, CA 92064

Epiphany Ryu (858) 513-1503

22-1-H9.07-1564 GRC

[Configuration, Optimization and Management of DTN via Artificially Intelligent Decentralized Systems \(COMMANDS\)](#) [83]

- **Euclid Beamlabs, LLC**

5900 Harper Road # 102

Solon, OH 44139

Ilya Ponomarev (703) 408-2897

22-1-Z1.06-2089 GRC

[Single Event Burnout Hardened High-power Diamond Devices](#) [84]

- **Exploration Institute, LLC**

1603 Capitol Ave, Unit 511B,

Cheyenne, WY 82001

Armin Ellis (617) 599-0774

22-1-H6.22-2286 ARC

[Neuromorphic Electronics that Rethinks Verifiable Efficiency on Spacecraft \(NERVES\)](#) [85]

- **Exquadrum, Inc.**

13313 Sabre Boulevard Suite 1

Victorville, CA 92394

J. Mathew Jones (760) 246-0279

22-1-S13.02-2438 JPL

[Extraterrestrial Sample-return Chemistry for Advanced Propulsion Experiment \(ESCAPE\)](#) [86]

- **Exquadrum, Inc.**

13313 Sabre Boulevard Suite 1

Victorville, CA 92394

J. Mathew Jones (760) 246-0279

22-1-Z8.09-1430 MSFC

[Small Spacecraft Transfer-stage Aluminized Rocket \(Small STAR\)](#) [87]

- **Faraday Technology, Inc.**

315 Huls Drive

Englewood, OH 45315

Maria Inman (937) 836-7749

22-1-S14.01-1684 MSFC

[Robust and Autonomous Space Weather Charge Mitigation](#) [88]

- **Faraday Technology, Inc.**

315 Huls Drive

Englewood, OH 45315

Maria Inman (937) 836-7749

22-1-Z12.01-1686 MSFC

[Ionic Liquid-Assisted Electrochemical Extraction of Metals and Oxygen from Lunar Regolith](#) [89]

- **farSight Technologies, LLC**

2600 South Shore Boulevard, Suite 300

League City, TX 77573

Glenn Beach (410) 212-6583

22-1-Z8.09-2420 GRC

[Solar Electric Propulsion Transfer Ring \(SEPTR\)](#) [90]

- **Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

22-1-Z8.02-1723 GRC

[Adapting 100G Optical Comm to Unique NASA Small Satellite DSM Applications](#) [91]

- **Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

22-1-S11.01-1648 LaRC

[ErYAG Energy Scaling for Water Vapor DIAL](#) [92]

- **Fifth Gait Technologies, Inc.**

835 Puente Drive

Santa Barbara, CA 93110

Amanda Borders (256) 886-8353

22-1-S14.01-2129 MSFC

[Enhancement of the Geomagnetic Cutoff Models inside SIRE2](#) [93]

- **Flight Works, Inc.**

17905 Sky Park Circle, Suite F

Irvine, CA 92614

Eric Besnard (949) 387-9552

22-1-Z10.01-2528 JSC

[Efficient High-Pressure-Ratio Compressor for Xenon On-Orbit Refueling](#) [94]

- **Froberg Aerospace, LLC**

8143 Kemper Court

Wilmington, NC 28411

Steven Berg (636) 497-6998

22-1-Z8.09-2858 MSFC

[Multimode Chemical-Electric Propulsion Transfer Stage for Flexible Cislunar Operations](#) [95]

- **Geolabe LLC**

3802 Ridgeway Drive

Los Alamos, NM 87544

Claudia Hulbert (505) 570-9614

22-1-S11.06-2757 JPL

[Estimating groundwater dynamics from artificial intelligence and InSAR](#) [96]

- **GeoLens LLC**

19 Buena Vista Road

Arlington, MA 02476

Thomas Vandal (978) 314-4847

22-1-S17.04-1586 GSFC

[Predicting 3D atmospheric structure from geostationary satellites](#) [97]

- **Giner, Inc.**

89 Rumford Avenue

Newton, MA 02466

Andrew Belt (781) 529-0507

22-1-S13.06-2019 GRC

[An Antibody Microarray for the detection of Life Signatures in Ocean World Samples](#) [98]

- **GOEPPERT, LLC**

2200 Arch Street, Unit 504

Philadelphia, PA 19103

Vanya Buvac (267) 687-9996

22-1-H8.01-2210 JSC

[Microgravity-assisted growth and defect engineering of 2D materials for terrestrial applications](#) [99]

- **Great Lakes Sound & Vibration, Inc**

47140 North Main Street

Houghton, MI 49931

Lynn Huotari (906) 482-7535

22-1-A1.02-1357 GRC

[Testing System to Enable Development of Active Noise Cancelation on Open Rotor Propulsion](#) [100]

- **Greensight, Inc.**

12 Channel Street, Suite 605

Boston, MA 02210

Joel Pedlikin (617) 633-4919

22-1-A1.06-2440 GRC

[Automated Machine Learning Prediction of Motor Degradation \(AMP MD\) for eVTOLs](#) [101]

- **Guardion, Inc.**

151 South Bedford Street, Unit 108B

Burlington, MA 01803

Daniel Esposito (603) 769-7265

22-1-S13.05-2850 JPL

[Low Size, Weight, and Power, High Gain 2D Material-Based Detectors for Mass Spectrometers](#) [102]

- **Handix Scientific, LLC**

1613 Prospect Park Way, Suite 100

Fort Collins, CO 80525

Gavin McMeeking (970) 310-5186

22-1-A1.03-2061 LaRC

[The Common-Path Interferometric Particle Sizer \(CPIPS\): A new open-path airborne instrument for characterizing small ice and aerosol](#) [103]

- **Hedgefog Research, Inc.**

1891 North Gaffey Street, Suite 224

San Pedro, CA 90731

Alex Kolessov (310) 935-2206

22-1-Z12.01-1662 JPL

[Pyrometer for Regolith-extracted Oxygen](#) [104]

- **Helden Aerospace Corporation**

2463 Saluda Drive

Acworth, GA 30101

John Hooker (678) 849-8420

22-1-A1.05-2522 LaRC

[Robust and Efficient WMLES Unstructured Grid Generation with HeldenMesh](#) [105]

- **HighRI Optics**

5401 Broadway Terrace #304

Oakland, CA 94618

Keiko Munechika (360) 402-4112

22-1-S12.04-1446 GSFC

[Binary Pseudo-Random Array \(BPRA\) standards for Inspection and Calibration of Cylindrical Wavefront Interferometry](#) [106]

- **Hinetics, LLC**

1804 Vale Street

Champaign, IL 61822

Jonathon Schuh (217) 717-1991

22-1-A1.04-2551 GRC

[Tail propulsor generator for NASA SUSAN sub-scale flight demonstrator](#) [107]

- **Hover, Inc**

909 5th Avenue

Seattle, WA 98164

James Lawson (817) 675-8042

22-1-A2.02-1200 AFRC

[Autonomy Platform Hover, Inc Proposal](#) [108]

- **Hyper Tech Research, Inc.**

539 Industrial Mile Road

Columbus, OH 43228

Michael Tomsic (614) 481-8050

22-1-A1.04-2561 GRC

[Low AC Loss Cryogenic Aluminum Conductors for Stators in Very High Speed Motors and Generators for Electric Aircraft](#) [109]

- **Impossible Sensing, LLC**

3407 South Jefferson Avenue

St. Louis, MO 63118

Kristian Mueller (626) 466-8731

22-1-S15.01-2666 KSC

[Focused LIBS for Elements in Water IDentification \(FLEW.ID\)](#) [110]

- **Improving Aviation, LLC**

6001 S 3rd Street

Tampa, FL 33611

Rocio Frej Vitale (386) 307-5436

22-1-A3.04-2854 ARC

[Portable Traffic Management Tool for Wildfire Operations](#) [111]

- **Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

22-1-Z13.01-2507 KSC

[Nanomaterials-enabled Electrodynamic Dust Shield](#) [112]

- **Innovative Scientific Solutions, Inc.**

7610 McEwen Road

Dayton, OH 45459

Larry Goss (937) 429-4980

22-1-A1.08-2196 LaRC

[Multiparameter Laser Absorption Tomography System for High-Speed Flows](#) [113]

- **Intact Solutions**

345 West Washington Avenue Suite 301

Madison, WI 53703

Mary Freytag (608) 469-7292

22-1-Z2.01-1656 JPL

[Intact.Generative: A Plug&Play Approach for Topology Optimization of Thermal Control Systems](#) [114]

- **Integrated Defense Applications, LLC dba IDA Technology**

1171 Larry Mahan Drive

El Paso, TX 79925

Von Washington (915) 504-6525

22-1-Z8.13-2481 MSFC

[Structurally Embedded Electrospray Thruster for Orbital Debris Reduction Through Enhanced Small Satellite Maneuverability](#) [115]

- **Intelligent Optical Systems, Inc.**

19601 Mariner Avenue

Torrance, CA 90503

Sandy Honda (424) 263-6313

22-1-Z4.05-2122 LaRC

[Laser Ultrasonic Testing for Defect Correction during In-Space Additive Manufacturing](#) [116]

- **Intellisense Systems, Inc.**

21041 South Western Avenue

Torrance, CA 90501

Selvy Utama (310) 320-1827

22-1-A2.03-1800 HQ

[Extraction of Supplemental Meteorological Data](#) [117]

- **Intellisense Systems, Inc.**

21041 South Western Avenue

Torrance, CA 90501

Selvy Utama (310) 320-1827

22-1-Z8.02-1733 GSFC

[Multi-Beam Autonomous Multi-Aperture Transceiver for Optical Navigation](#) [118]

- **Intellisense Systems, Inc.**

21041 South Western Avenue

Torrance, CA 90501

Selvy Utama (310) 320-1827

22-1-H6.22-1780 GSFC

[Adaptive Deep Onboard Reinforcement Bidirectional Learning System](#) [119]

- **Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Deontae Lafayette (407) 697-3697

22-1-A2.01-1911 GRC

[On-Board Low-Profile Skin Friction Sensor \(OBeLiSk\)](#) [120]

- **Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Deontae Lafayette (407) 697-3697

22-1-A1.02-1831 GRC

[Advanced Phased Array Instrumentation and Processing for Engine Inlet Measurements](#) [121]

- **International Scientific Technologies, Inc.**

P.O. Box 757

Dublin, VA 24084

Wanda Gibson (540) 633-1424

22-1-Z14.02-2669 MSFC

[Additive Manufacturing of Hydrogen-rich Polymer-Regolith Composites for Radiation-Shielding Habitat Materials](#) [122]

- **IRPI, LLC**

27501 SW 95th Avenue Suite 930

Wilsonville, OR 97070

Ryan Jenson (503) 545-2501

22-1-H3.09-1442 JSC

[Multipurpose Omni-Gravitational Wet Vacuum for Space](#) [123]

- **KALSCOTT Engineering, Inc.**

P.O. Box 3426

Lawrence, KS 66046

Tom Sherwood (785) 979-1113

22-1-A3.04-2296 ARC

[Organic Airspace Monitoring System for Aerial Wildfire Response Operations](#) [124]

- **Kaney Aerospace**

1300 Capital Drive

Rockford, IL 61109

Scott Morehead (815) 986-4359

22-1-A1.04-2151 GRC

[Combined Machine and Converter Architecture for Megawatt EMI Control and Weight Savings](#) [125]

- **Kayhan Space Corp**

1704 Pioneer Circle

Lafayette, CO 80026

SIAMAK HESAR (401) 263-0016

22-1-H9.03-2251 GSFC

[A novel subset simulation-based technique for calculating the probability of collision](#) [126]

- **KIHOMAC**

12030 Sunrise Valley Drive, Suite 320

Reston, VA 20191

Adam Grimm (571) 217-4853

22-1-A3.04-1635 LaRC

[Precision Retardant Delivery](#) [127]

- **Kyma Technologies, Inc.**

8829 Midway West Road

Raleigh, NC 27617

Heather Splawn (919) 789-8880

22-1-Z1.06-2096 GRC

[Radiation-Tolerant Vertical GaN Diodes](#) [128]

- **Leiden Measurement Technology, LLC**

1230 Mountain View Alviso Road, Suite A

Sunnyvale, CA 94089

Nathan Bramall (510) 301-8980

22-1-S13.06-1161 ARC

[Microscope Using Super-resolution for Exploration \(MUSE\)](#) [129]

- **Leiden Measurement Technology, LLC**

1230 Mountain View Alviso Road, Suite A

Sunnyvale, CA 94089

Nathan Bramall (510) 301-8980

22-1-S13.05-1169 ARC

[Automated Recovery and Isolation of Extraterrestrial Lipids \(ARIEL\)](#) [130]

- **Lenzner Research, LLC**

125 East Canyon View Drive

Tucson, AZ 85704

Matthias Lenzner (347) 301-5402

22-1-S16.03-1456 MSFC

[Optical gyroscopes and accelerometers: enhanced response and squeezed noise](#) [131]

- **Lewiz Communications, Inc.**

738 Charcot Avenue

San Jose, CA 95131

CHINH LE (408) 836-4226

22-1-Z2.02-2344 GSFC

[High Multi-speed Time-Triggered Ethernet](#) [132]

- **Lili Zhou**

440 Hindry Avenue, Unit E

Los Angeles , CA 90034

Lili Zhou (310) 307-9058

22-1-H3.08-1984 ARC

[Advanced Heaters for Sorbent Systems](#) [133]

- **Lookin, Inc.**

12016 Washington Place, Apt, 112

Los Angeles, CA 90066

Nezih Yardimci (734) 546-1878

22-1-Z4.05-1921 LaRC

[High-Throughput and High-Sensitivity Terahertz Scanners for Non-Destructive Evaluation of Non-Conductive Coatings and Thermal Protection Systems in Space Applications](#) [134]

- **Lumos Imaging Inc**

134 H Street

Salt Lake City, UT 84103

Rajesh Menon (617) 642-3150

22-1-S11.04-2107 MSFC

[Optical Detection of Lightning via Diffractography](#) [135]

- **Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

Maggie Hudson (434) 483-4254

22-1-A1.08-2059 LaRC

[Robust Optical Interrogators for Electric Propulsion Applications](#) [136]

- **Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

Maggie Hudson (434) 483-4254

22-1-H10.01-1879 SSC

[Non-Intrusive Cryogenic Flowmeter for Existing Piping Infrastructure](#) [137]

- **Luna Labs USA, LLC**

706 Forest Street, Suite A

Charlottesville, VA 22903

Maggie Hudson (434) 972-9950

22-1-H12.07-2147 JSC

[DoseShield Packaging for Improved Pharmaceutical Protection in Space](#) [138]

- **Lunar Resources, Inc.**

5000 Gulf Freeway, Exploration Research Park, Building 4

Houston, TX 77023

Elliot Carol (646) 455-8382

22-1-Z14.02-2040 MSFC

[Ultra-Electrical-Efficient Process to Perform Regolith Additive Manufacturing of Complex Structures](#) [139]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2302

22-1-S15.01-1352 KSC

[Miniaturized Reagent Regenerative Ion Analyzer for Elemental Analysis](#) [140]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2302

22-1-Z1.08-1353 GRC

[Unitized High Pressure Regenerative Fuel Cell Stack for NASA Applications](#) [141]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2302

22-1-Z1.08-1354 GRC

[Hybrid Water Removal and Reclamation System \(HyWaRRS\)](#) [142]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

22-1-H4.07-2816 JSC

[MOF based Adsorbents for Carbon Dioxide Removal Assembly](#) [143]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

22-1-H3.08-2836 ARC

[Continuous Wire Embedded 3D Printing for Sorbent Regeneration](#) [144]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

22-1-H3.08-2852 MSFC

[Combined Sub-Micron Particle Separators for Carbon Removal System](#) [145]

- **Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

22-1-H4.06-2650 JSC

[Compact, Low Power, Multi-Parameter Astronaut Life Support Sensor \(M-PALSS\)](#) [146]

- **Masten Space Systems, Inc.**

1570 Sabovich Street

Mojave, CA 93501

Sean Bedford (352) 226-5708

22-1-Z10.05-2909 MSFC

[Rotating Detonation Engine Novel Injector Design](#) [147]

- **Masten Space Systems, Inc.**

1570 Sabovich Street

Mojave, CA 93501

Sean Bedford (352) 226-5708

22-1-Z14.01-2623 KSC

[RocketM for Lunar ISRU](#) [148]

- **Mesa Photonics, LLC**

1550 Pacheco Street

Santa Fe, NM 87505

David Bomse (505) 216-5015

22-1-S11.05-2140 ARC

[Compact autonomous solar radiometer for atmospheric trace gas sounding](#) [149]

- **Mesa Photonics, LLC**

1550 Pacheco Street

Santa Fe, NM 87505

David Bomse (505) 216-5015

22-1-H4.06-1488 JSC

[Advanced Multi-Gas Sensor](#) [150]

- **Metron, Inc.**

1818 Library Street

Reston, VA 20190

Seth Blackwell (703) 787-8700

22-1-A3.01-1271 LaRC

[Decision Support for Reroute Impact and Analysis](#) [151]

- **Metron, Inc.**

1818 Library Street

Reston, VA 20190

Seth Blackwell (703) 787-8700

22-1-A3.03-1272 LaRC

[Spatiotemporal Precursors of Safety Incidents](#) [152]

- **Metron, Inc.**

1818 Library Street

Reston, VA 20190

Diane Park (703) 467-5614

22-1-H6.23-1603 JSC

[Co-Explore: Adaptive Goal-based Cognitive Architecture for Human](#) [153]

- **Mezzo Technologies**

10246 Mammoth Avenue

Baton Rouge, LA 70814

Mark Turner (225) 324-2674

22-1-Z2.01-1386 JSC

[LIGHTWEIGHT MICROTUBE PHASE CHANGE MATERIAL HEAT EXCHANGERS](#) [154]

- **MicroLink Devices, Inc.**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 588-3001

22-1-Z1.05-2158 GRC

[Array for High Efficiency Power Beaming](#) [155]

- **MillenniTEK, LLC**

631 Barbro Lane

Knoxville, TN 37932

Drew Spradling (865) 966-2170

22-1-Z13.02-1981 GRC

[Regolith Dust and Radiation-Tolerant Bearing](#) [156]

- **MOONPRINT SOLUTIONS LLC**

107 Bohemian Drive

Middletown, DE 19709

Anshu Dixit (302) 373-2620

22-1-S16.04-1977 ARC

[S-HALE Stratospheric HALE LTA Aircraft](#) [157]

- **Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Chris Brinton (703) 980-3961

22-1-A3.01-1451 ARC

[Alternate Route Availability Tool](#) [158]

- **Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Chris Brinton (703) 980-3961

22-1-A3.04-1460 ARC

[A Toolkit for UAM Communications Management](#) [159]

- **Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Chris Brinton (703) 980-3961

22-1-A3.02-1694 LaRC

[Contingency Planning Toolkit for Advanced Air Mobility](#) [160]

- **Nalu Scientific, LLC**

2800 Woodlawn Drive, Suite 240

Honolulu, HI 96822

Ansel Bare (563) 209-2420

22-1-S16.06-2114 JPL

[Hoku: Radiation-Tolerant Analog and Mixed-Signal Circuits with Autonomous Element Level Adjustability](#) [161]

- **Nanoarmor, LLC**

5569 West Washington Boulevard

Los Angeles, CA 90016

Brantly Fulton (310) 876-3542

22-1-H8.01-1840 JSC

[Novel Additively-Manufactured Ultra-High Temperature Composite with Microgravity Improved Grain Structure \(NACE HHS MICRO\)](#) [162]

- **Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Mike Mayo (512) 389-9990

22-1-Z7.04-2586 MSFC

[Reconfigurable Plenoptic Objective for Snapshot Multimodal Flow Diagnostics](#) [163]

- **Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Mike Mayo (512) 389-9990

22-1-S13.07-2597 GRC

[Thermal control for energy storage in extreme environments](#) [164]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Amanda Moyer (540) 626-6266

22-1-Z7.01-1480 JSC

[Ultra-wide Bandwidth, Nanomembrane-based Pressure Transducers for Entry, Descent, and Landing Applications](#) [165]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Amanda Moyer (540) 626-6266

22-1-H12.07-1482 JSC

[Thoraeus Rubber Shielding MOF Scavenging Space Pharmaceutical Packaging](#) [166]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Amanda Moyer (540) 626-6266

22-1-S12.03-1490 GSFC

[Low Viscosity, High Strength Adhesive Materials with Low CTE](#) [167]

- **Niobium Microsystems**

444 East 2nd Street, Suite 250

Dayton, OH 45402

Colin Morrow (937) 207-2473

22-1-H6.22-2264 ARC

[Scalable Neuromorphic Energy-Efficient Accelerator for Heterogeneous Processor Architectures](#) [168]

- **North Country Composites LLC**

17 Marquis Drive, PO Box 408

Colebrook, NH 03576

Frederick Lauten (978) 884-4701

22-1-H5.02-2035 MSFC

[Localized 3-D Fiber Reinforcement in C-C and Ceramic Composites](#) [169]

- **Nu Waves, Ltd.**

132 Edison Drive

Middletown, OH 45044

Jeffrey Wells (513) 360-0800

22-1-S11.02-2135 JPL

[Coupled Resonator Power Combiner \(COREPOWER\)](#) [170]

- **Numem Inc**

440 N Wolfe Road

Sunnyvale, CA 94085

Nilesh Gharia (408) 836-8795

22-1-H6.22-2237 ARC

[Neuromorphic Processor with radiation tolerant MRAM](#) [171]

- **Obsidian Sensors**

5754 Pacific Center Boulevard

San Diego, CA 92121

Tallis Chang (858) 922-4344

22-1-S12.01-1957 JPL

[Integrated Fourier Transform Spectrometer](#) [172]

- **Octave Photonics, LLC**

325 West South Boulder Road Suite B1

Louisville, CO 80027

David Carlson (720) 213-5296

22-1-S16.08-1413 JPL

[Kerr-soliton On-chip Microcomb with Optimized Dispersion for Octave-spanning Output \(KOMODO\)](#) [173]

- **OEwaves, Inc.**

465 North Halstead Street, Suite #140

Pasadena, CA 91107

Debra Coler (626) 351-4200

22-1-S11.03-1904 GSFC

[High Performance Photonic Oscillator for Cloud RADAR Applications](#) [174]

- **Off Planet Research, LLC**

1130 Marine View Drive Suite A-2

Everett, WA 98201

Melissa Roth (425) 931-7165

22-1-Z13.02-1178 KSC

[Flexible Dust-Excluding Fiber Seals](#) [175]

- **Off Planet Research, LLC**

1130 Marine View Drive Suite A-2

Everett, WA 98201

Melissa Roth (425) 931-7165

22-1-Z13.03-1180 JSC

[Removable xEMU SCC Protective Cover](#) [176]

- **OffWorld, Inc.**

2031 East Foothill Boulevard

Pasadena, CA 91107

Amaresh Kollipara (415) 225-4398

22-1-Z14.01-2648 KSC

[ADAPTING NOVEL TERRESTRIAL MINING TECHNOLOGIES FOR LUNAR EXCAVATION](#) [177]

- **Opterus Research and Development, Inc.**

815 14th Street SouthWest, Suite C200

Loveland , CO 80537

Thomas Murphey (505) 250-3006

22-1-H5.01-1626 LaRC

[50 kW-Class Retractable Rollable Mast Lunar Surface Solar Array](#) [178]

- **Opterus Research and Development, Inc.**

815 14th Street SouthWest, Suite C200

Loveland , CO 80537

Thomas Murphey (505) 250-3006

22-1-S11.02-2206 GSFC

[Deployable Solid Surface Spiral Wrapped Antenna Technology](#) [179]

- **Opterus Research and Development, Inc.**

815 14th Street SouthWest, Suite C200

Loveland , CO 80537

Thomas Murphey (505) 250-3006

22-1-S13.01-2209 JPL

[High Strain Composite Booms for Robotics](#) [180]

- **Optical Engines, Inc.**

842 South Sierra Madre Street, Suite D

Colorado Springs, CO 80903

Donald Sipes (815) 383-8303

22-1-S11.01-1245 GSFC

[Single Mode Ultra Large Mode Area Fiber Lasers with large energy storage \(HE-ULMA\)](#) [181]

- **OptiPro Systems, LLC**

6368 Dean Parkway

Ontario, NY 14519

Matthew Carlson (585) 265-0160

22-1-S12.04-2190 MSFC

[Wide Range Chromatic Interferometric Probe](#) [182]

- **Opto-Atomics Corp.**

222 West 6th Street, Suite 400

San Pedro, CA 90731

Jae Choi (310) 920-2431

22-1-S16.08-1736 JPL

[Rugged Atomic Sensor Laser](#) [183]

- **Opto-Knowledge Systems, Inc. (OKSI)**

19805 Hamilton Avenue

Torrance, CA 90502

Ilana Gat (424) 757-9120

22-1-S13.06-1962 GSFC

[Methane Isotopes Analyzer for Enceladus Plume Flythrough](#) [184]

- **Outpost Technologies**

4825 University Square, Suite 1

Huntsville, AL 35816

Alex Few (205) 908-6413

22-1-S12.03-1398 MSFC

[Low-Cost, High-Performance Metal Matrix Composite for Advanced Optical Systems](#) [185]

- **Outpost Technologies Corporation**

120 N Topanga Canyon Boulevard Suite, #207

Topanga, CA 90290

Jason Dunn (650) 735-2045

22-1-Z7.03-2439 LaRC

[GasPak: A High Output, Clean Gas Generator for Large Volume Deployable Aerodynamic Decelerators](#) [186]

- **Ozark Integrated Circuits, Inc.**

700 West Research Center Boulevard

Fayetteville, AR 72701

Anthony Francis (479) 575-1600

22-1-S13.03-2094 GRC

[High Temperature Additively Manufactured ROM for Venus Surface Operation](#) [187]

- **Pacific Blue Innovations, LLC**

1611 South Melrose Drive, Suite A-146

Vista, CA 92081

Gary Abramov (858) 775-9363

22-1-S12.02-2526 JPL

[Photopolymer Space Parabolic Mirrors](#) [188]

- **Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

22-1-S11.04-2138 JPL

[A Signal Frequency Channelizer ASIC](#) [189]

- **Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

22-1-S11.03-2143 GSFC

[Low-power 28GHz Selective Spectrometer](#) [190]

- **Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Joel Johnson (520) 382-4854

22-1-Z13.03-1913 JSC

[Exploration Labyrinth Dust Seals \(xLiDS\)](#) [191]

- **Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Joel Johnson (520) 382-4854

22-1-Z12.01-1322 JSC

[Non-Water Lunar Ice Mining](#) [192]

- **Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Joel Johnson (520) 382-4854

22-1-H4.07-1033 JSC

[CO₂/H₂O Sorbent Development for the xEMU](#) [193]

- **Particle in Cell Consulting LLC**

30700 Russell Ranch Road Suite 300

Westlake Village, CA 91362

Lubos Brieda (661) 202-9812

22-1-S13.04-2465 GSFC

[Mesh-Free Contamination Transport Modeling using CAD Geometries](#) [194]

- **PC Krause and Associates, Inc.**

3000 Kent Avenue, Suite 1701

West Lafayette, IN 47906

Teresa Arens (317) 245-1122

22-1-A1.06-1953 GRC

[Electric Motor Fault Resilience](#) [195]

- **Pendar Technologies LLC**

30 Spinelli Place

Cambridge, MA 02138

Christian Pfluegl (857) 413-9339

22-1-S11.05-2053 LaRC

[Compact and rugged mid-infrared multi-gas open path sensor](#) [196]

- **Pendar Technologies LLC**

30 Spinelli Place

Cambridge, MA 02138

Christian Pfluegl (857) 413-9339

22-1-H4.06-1580 JSC

[Power efficient, miniature mid-infrared sensor](#) [197]

- **Photon Systems, Inc.**

1512 Industrial Park Street

Covina, CA 91722

William Hug (626) 967-6431

22-1-S13.03-2199 JPL

[Deep UV Lasers for Raman & Fluorescence Spectroscopy in Extreme Environments](#) [198]

- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

William Marinelli (978) 738-8226

22-1-H9.01-1621 JPL

[Ground based uplink and beacon laser for long range communications](#) [199]

- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

William Marinelli (978) 738-8226

22-1-S13.05-1543 GSFC

[Deep UV Raman Spatial Heterodyne Spectrometer for Depth Resolved Core Analysis](#) [200]

- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

William Marinelli (978) 738-8226

22-1-Z8.13-1573 MSFC

[Self Propelled Energetic Electron Dispensers \(SPEEDs\) for Deorbit Applications](#) [201]

- **PickNik Inc**

4730 Walnut Street Suite. 106

Boulder, CO 80301

Lynn Regnier (413) 841-9404

22-1-Z5.04-2604 ARC

[An Affordance Driven, Human-in-the-Loop Perception Framework](#) [202]

- **Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 984-9346

22-1-Z13.04-1240 GRC

[Magnetic Dust Filtration System](#) [203]

- **Pioneer Astronautics**

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Lakewood, CO 80215

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22-1-Z12.01-1907 KSC

[Alkaline Low-Temperature Aluminum from Waste Slag](#) [204]

- **Pioneer Astronautics**

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Lakewood, CO 80215

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22-1-Z13.02-1222 LaRC

[Novel Durable Silica-based Transparent Coatings](#) [205]

- **Polaronyx, Inc.**

144 Old Lystra Road, Unit 2

Chapel Hill, NC 27517

Jian Liu (650) 387-0889

22-1-S13.03-1732 GSFC

[Additive Manufacturing of Radiation Tolerant Bearings](#) [206]

- **PRAEVIUM RESEARCH, INC.**

601C Pine Avenue

Goleta, CA 93117

Vijaysekhar Jayaraman (805) 448-4008

22-1-A2.01-1708 AFRC

[Ruggedized MEMS-VCSEL with high speed data acquisition for Fiber Optic Sensing System](#) [207]

- **Precision Combustion, Inc.**

410 Sackett Point Road

North Haven, CT 06473

Anthony Anderson (203) 287-3700

22-1-Z1.08-2067 GRC

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- **PVT Clean Energy LLC**

7 Industry Street

Poughkeepsie, NY 12603

Mehdi Zadshir (845) 293-0520

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- **QED Secure Solutions**

105 Olympia Lane

Coppell, TX 75019

Jonathan Butts (214) 489-7767

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- **QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 03063

Mani Sundaram (603) 821-3092

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- **Qualtech Systems, Inc.**

100 Corporate Place, Suite 220

Rocky Hill, CT 06067

Sudipto Ghoshal (860) 761-9341

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- **Qualtech Systems, Inc.**

100 Corporate Place, Suite 220

Rocky Hill, CT 06067

Deepak Haste (860) 913-7012

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- **QuantCAD, LLC**

1165 Oakes Drive

Iowa City, IA 52245

Jennifer Flatte (319) 594-2507

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- **Reaction Systems, LLC**

17301 West Colfax Avenue, #160

Golden, CO 80401

Todd Leeson (303) 881-7992

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- **Relative Dynamics, Inc.**

6401 Golden Triangle Drive Suite 201

Greenbelt, MD 20770

Kush Patel (301) 335-0491

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- **Resilient Computing**

269 Terrance Loop

Bozeman, MT 59718

Brock LaMeres (406) 451-8138

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- **Robust Analytics**

1302 Cronson Boulevard, Suite B

Crofton, MD 21114

Peter Kostiuk (410) 980-3667

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- **Sachi Bioworks**

685 S Arthur Avenue Unit 5

Louisville, CO 80027

Colleen Courtney (720) 361-2159

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- **scdevice llc**

3359 NorthWest 123rd Place

Portland, OR 97229

SUDARSAN UPPILI (503) 449-4193

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- **Scientific Simulations, LLC**

1582 Inca Drive

Laramie, WY 82072

Dimitri Mavriplis (307) 399-8717

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- **SciGlob Instruments & Services, LLC**

4656 Tall Maple Court

Ellicott City, MD 21043

Asma Soliman (410) 487-4709

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- **Scout Inc.**

5904 Mount Eagle Drive Apt 102

Alexandria, VA 22303

Sergio Gallucci (571) 249-3118

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- **Sedaro Technologies, LLC**

4601 Fairfax Drive Suite 1040

Arlington, VA 22203

Daniel Martin (781) 573-3276

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- **Senseker Engineering, Inc.**

100 Frederick Lopez Road

Santa Barbara, CA 93117

Lilia Barbosa (805) 617-0337

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- **SenSigma**

3660 Plaza Drive Suite#2

Ann Arbor, MI 48108

Aparajita Mazumder (734) 395-4159

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- **Sigma-Netics inc**

2 North Corporate Drive

Riverdale, NJ 07457

steven pennington (716) 418-4194

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- **Sigmatech, Inc.**

4901 Corporate Drive NorthWest, Suite C

Huntsville, AL 35805

Robert Pavelko (719) 308-5339

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- **Singularity - Intelligence Amplified, LLC**

5543 Marrowback Road

Conesus, NY 14435

Patrick Kalgren (585) 204-0539

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- **Singularity Solutions**

474 Vaquero Lane

Santa Barbara, CA 93111

Zamir Syed (248) 255-6640

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- **Skydweller US Inc**

1601 Northwest Expressway, Suite 1600

Oklahoma City, OK 73118

Mark Amendt (405) 596-4325

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- **Soar Technology, Inc.**

3600 Green Court, Suite 600

Ann Arbor, MI 48105

Christian Thomas (407) 437-4334

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- **Space Lab Technologies, LLC**

5455 Spine Road, Suite ME

Boulder, CO 80301

Christine Escobar (720) 309-8475

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- **Space Micro, Inc.**

15378 Avenue of Science

San Diego, CA 92128

David Strobel (858) 332-0700

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- **SPACE PRODUCTS AND INNOV.**

3225 Central Avenue NorthEast, Suite E

Albuquerque, NM 87106

Tal Azoulay (505) 317-2908

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- **Spectral Energies, LLC**

4065 Executive Drive

Dayton, OH 45430

Sivaram Gogineni (937) 266-9570

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- **Sporian Microsystems, Inc.**

515 Courtney Way, Suite B

Lafayette, CO 80026

Kevin Harsh (303) 516-9075

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- **Sporian Microsystems, Inc.**

515 Courtney Way, Suite B

Lafayette, CO 80026

Laurel Frediani (303) 516-9075

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- **Stable Laser Systems, Inc.**

4946 63rd Street

Boulder, CO 80301

Mark Notcutt (303) 542-0427

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- **Starfish Space, Inc.**

26204 147th Avenue South East

Kent, WA 98042

Jonathan Kneller (516) 661-0225

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- **Stone Aerospace Inc.**

3511 Caldwell Lane

Del Valle, TX 78617

Victoria Siegel (512) 619-1737

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- **Storagenergy Technologies, Inc.**

1990 S Milestone Drive, Suite A

Salt Lake City, UT 84104

Lynn Zhang (801) 803-1303

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- **Storm Castle Technical Products, Inc.**

Box 461

Manhattan, MT 59741

David Driscoll (406) 570-0686

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- **Stottler Henke Associates, Inc.**

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2719

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- **Streamline Numerics, Inc.**

3221 North West 13th Street, Suite A

Gainesville, FL 32609

Jeffrey Wright (352) 271-8841

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- **Swift Engineering, Inc.**

1141 Via Callejon

San Clemente, CA 92673

Phil Mengden (949) 444-8391

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- **Sydor Instruments, LLC**

78 Schuyler Baldwin Drive

Fairport, NY 14550

Mark Katafiaz (585) 278-1168

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- **Syrnatec, Inc.**

95 Pond Place

Middletown, CT 06457

Nishita Mirchandani (860) 594-5248

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- **Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Peter Gondek (310) 679-2281

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- **Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Peter Gondek (310) 679-2281

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- **T.E.A.M., Inc.**

841 Park East Drive

Woonsocket, RI 02895

Aaron Tomich (401) 762-1500

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- **TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

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- **TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

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- **TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

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- **Texas Research Institute Austin, Inc.**

9063 Bee Caves Road

Austin, TX 78733

Michael Dingus (512) 263-2101

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- **Texas Research Institute Austin, Inc.**

9063 Bee Caves Road

Austin, TX 78733

Michael Dingus (512) 263-2101

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- **TGV Rockets, Inc.**

2519 Benning Road Northeast

Washington, DC 20002

Pat Bahn (240) 462-8848

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- **The Innovation Laboratory, Inc.**

2360 Southwest Chelmsford Avenue

Portland, OR 97201

Jimmy Krozel (503) 242-1761

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- **The Longbow Group, LLC**

96 Stilwell Road

Hampton, VA 23651

Marius Sterk (901) 336-6551

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- **The Space Research Company, LLC**

6715 S Adams Way

Centennial, CO 80122

Christine Fanchiang (650) 302-2692

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- **ThermAvant Technologies, LLC**

2508 Paris Road

Columbia, MO 65202

Joseph Boswell (573) 397-6912

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- **Thinking Robots, Inc.**

12 Channel Street Suite 202

Boston, MA 02210

Matthias Scheutz (857) 488-9249

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- **TIPD, LLC**

1430 North 6th Avenue

Tucson, AZ 85705

James Fountain (520) 250-4405

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- **TPL, Inc.**

8436 Washington Place NorthEast

Albuquerque, NM 87113

Harold Stoller (505) 342-4412

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- **TRAC Labs, Inc.**

100 Northeast Interstate 410 Loop #520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

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- **Transition45 Technologies, Inc.**

28245 Via Del Mar

San Juan Capistrano, CA 92675

Edward Chen (714) 914-8611

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- **Trident Sensing LLC**

6300 Sagewood Drive. Suite H206

Park City, UT 84098

Stephen Pollard (435) 640-9236

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- **Triton Systems, Inc.**

200 Turnpike Road

Chelmsford, MA 01824

Collette Jolliffe (978) 856-4158

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- **TruWeather Solutions**

19A Coachman Square

Halfmoon, NY 12065

Don Berchoff (680) 800-7587

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- **Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

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- **Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 899-0236

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- **Ultrasonic Technology Solutions**

10820 Murdock Drive, Suite 104

Knoxville, TN 37932

Ayyoub M. Momen (352) 870-3714

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- **UMPQUA Research Company**

P.O. Box 609

Myrtle Creek, OR 97457

Lynette Herlan (541) 863-2655

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- **University Technical Services, Inc.**

6411 Ivy Lane, Suite 108

Greenbelt, MD 20770

Eric Heidhausen (301) 345-8665

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- **Virginia Diodes, Inc.**

979 Second Street, Southeast

Charlottesville, VA 22902

Thomas Crowe (434) 297-3257

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- **VISIMO, LLC**

400 Main Street

Coraopolis, PA 15108

Alexander Heit (412) 615-4372

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- **Vivonics, Inc.**

175 Great Road

Bedford, MA 01730

Stephen Mattox (781) 373-1930

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- **WinterWinds Robotics**

1910 Pike Road, Suite A

Longmont, CO 80501

Valerie Eastman (970) 632-0178

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- **XploSafe, LLC**

712 Eastgate Street

Stillwater, OK 74074

Shoaib Shaikh (918) 813-2955

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- **Zephyr Computing Systems, Inc.**

1506 Pullman Way

Oakland, CA 94607

Jason Cerundolo (781) 454-9040

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