



Proposals Selected for Negotiation of Contracts

- **Regher Solar, LLC**

7700 South River Parkway

Tempe, AZ 85284

Stanislau Herasimenka (520) 838-9404

21-1-S3.01-2261 GRC

[Pushing Radiation Hardness and Qualification of Ultrathin Silicon Solar Cells](#) [1]

- **3Dnol, LLC**

2865 North Reynolds Road, Suite 220

Toledo, OH 43615

Ahmadreza Jahadakbar (419) 280-3848

21-1-A1.03-2541 GRC

[Additive Manufacturing of NiTiHfZr SMAs for Improving Propulsion Systems Efficiency](#) [2]

- **Adv Materials Innovations**

10743 Matinal Circle

San Diego , CA 92127

Carl Edwards (858) 437-1276

21-1-S1.11-2267 GRC

[Sensors and Sample Processing for Ocean Worlds Life Detection](#) [3]

- **Advanced Ceramics Manufacturing**

7800 South Nogales Highway

Tucson, AZ 85756

Mark Angier (520) 547-0856

21-1-Z10.03-1350 GRC

[Ultrahigh-Temperature Property Testing of Nuclear Propulsion Materials](#) [4]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

21-1-Z2.01-1280 GSFC

[Advanced Cooling System for Modular Power Electronics](#) [5]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

21-1-S4.03-1278 GRC

[Thermal Management System for Comet Sample Return](#) [6]

- **Advanced Scientific Concepts, LLC**

135 East Ortega Street

Santa Barbara, CA 93101

Brad Short (805) 966-3331

21-1-S4.02-1170 GSFC

[Low SWaP Flash LiDAR for Fast Traversing Rovers](#) [7]

- **Advanced Space, LLC**

1400 West 122nd Avenue, Suite 200

Westminster, CT 80234

Bradley Cheetham (720) 545-9189

21-1-H6.22-1464 ARC

[Neural Network Gravity Field Model](#) [8]

- **Advent Innovations Limited**

1225 Laurel Street, Suite 213

Columbia, SC 29201

Ritubarna Banerjee (480) 234-5267

21-1-Z4.05-2054 LaRC

[Ultrasonic Energy Interaction with Composite Damage in Both Frequency and Time Domains](#) [9]

- **Adventium Enterprises, LLC**

111 Third Avenue South, Suite 100

Minneapolis, MN 55401

Kyle Nelson (612) 280-9843

21-1-H6.04-1677 ARC

[Insight to Diverse Information using Graphs and Ontologies \(INDIGO\)](#) [10]

- **Aegis Technology, Inc.**

12630 Westminister Avenue, Suite G

Santa Ana, CA 92706

Timothy Lin (714) 554-5511

21-1-S3.03-1845 GRC

[Solid-state Sodium-ion Batteries for Extreme-Environment Energy Storage](#) [11]

- **Aeris, LLC**

1021 Main Street

Louisville, CO 80027

Paul Bieringer (720) 370-9012

21-1-A3.04-3327 LaRC

[Microscale Weather Based Unmanned Aircraft Systems Traffic Management Optimization System](#) [12]

- **Air Squared, Inc.**

510 Burbank Street

Broomfield, CO 80020

Bryce Shaffer (513) 238-9778

21-1-Z12.01-1706 JPL

[Lunar ISRU Contaminant Tolerant Scroll Vacuum Pump \(CTSVP\)](#) [13]

- **AiRANACULUS**

9 Flint Street

Chelmsford, MA 01824

Apurva Mody (404) 819-0314

21-1-H9.07-1892 GRC

[Intelligent Network Slicing and Policy-based Routing Engine \(INSPIRE\)](#) [14]

- **AirPhoton, LLC**

1450 South Rolling Road

Baltimore, MD 21227

Richard Kleidman (410) 300-5308

21-1-S1.08-1736 ARC

[A versatile system for the multi-angular measurement of the aerosol scattering matrix and aerosol aerodynamic size.](#) [15]

- **Alphacore, Inc.**

304 South Rockford Drive

Tempe, AZ 85281

Esko Mikkola (480) 494-5618

21-1-S3.08-2638 JPL

[A Radiation Hardened, Digitally Controlled Single-Inductor Multiple-Output \(SIMO\) Buck Regulator](#) [16]

- **American Daedalus, LLC**

5711 76th Avenue East

Puyallup, WA 98371

Jamie Hansen (240) 441-6937

21-1-A3.01-2227 ARC

[Infrasonic Detection of Atmospheric Turbulence](#) [17]

- **Amethyst Research, Inc.**

123 Case Circle

Ardmore, OK 73401

Terry Golding (580) 559-1064

21-1-H9.01-3281 GSFC

[Radiation-tolerant C-band Detectors for Free Space Optical Communications](#) [18]

- **Amphionic, LLC**

875 North Lima Center Road

Dexter, MI 48130

Suneel Joglekar (765) 609-1308

21-1-S4.03-3134 JPL

[Transparent, lightweight aluminum-polymer composites for increased-value sample-return missions](#) [19]

- **Amplified Design Solutions, LLC**

2 James Circle

Longmont, CO 80501

Jerome Hittle (303) 523-7842

21-1-Z8.12-1837 ARC

[Software-Defined Power Controller: Enabling Adjustability of Spacecraft Power Systems during AIT and On-Orbit Operations](#) [20]

- **Anasphere, Inc.**

5400 Frontage Road

Manhattan, MT 59741

John Bognar (406) 595-3286

21-1-Z7.03-2885 LaRC

[Improved Solid-State Hydrogen Gas Generator](#) [21]

- **ANT Automation, LLC**

996 Balmoral Drive

Pittsburgh, PA 15237

Aldo Barreiro (412) 736-9170

21-1-A2.03-1735 LaRC

[DIGEST a ReplicANT Framework for AAM](#) [22]

- **Applied Optimization, Inc.**

3040 Presidential Drive, Suite 100

Fairborn, OH 45324

Michael Pickrell (937) 431-5100

21-1-Z4.04-2281 LaRC

[Wire-Feed Additive Manufacturing Process Control Solution with Defect Detection, Identification and Correction](#) [23]

- **Armorworks, Inc.**

6150 West Gila Springs Place, #26

Chandler, AZ 85226

William Perciballi (602) 684-5291

21-1-Z13.03-2419 JSC

[Improved Environmental Protection Garment \(IEPG\) Fabric](#) [24]

- **Artimus Robotics Inc.**

2985 Sterling Court, Suite B

Boulder, CO 80301

Timothy Morrissey (315) 867-7773

21-1-H10.02-2583 KSC

[Intelligent Soft Actuators with Self-Diagnosis Capabilities](#) [25]

- **Ascending Node Technologies, LLC**

2548 East 4th Street

Tucson, AZ 85716

Sanford Selznick (520) 314-5595

21-1-S5.04-1861 GSFC

[Observation Planning in Spaceline](#) [26]

- **Aster Labs, Inc.**

155 East Owasso Lane

Shoreview, MN 55126

Suneel Sheikh (651) 484-2084

21-1-Z8.02-1469 GRC

[Deep Space Navigation of Distributed Small Spacecraft using Variable Celestial Sources](#) [27]

- **Astrileux Corporation**

3137 Tiger Run Court, Suite 107

Carlsbad, CA 92010

Supriya Jaiswal (858) 531-2432

21-1-S2.04-3214 MSFC

[A New Platform of Tunable Multispectral EUV Coatings](#) [28]

- **Astrobotic Technology, Inc.**

1016 North Lincoln Avenue

Pittsburgh, PA 15233

Andrew Horchler (216) 272-3882

21-1-H9.03-2520 GSFC

[Real-time Hazard Detection via Deep Learning](#) [29]

- **Astrobotic Technology, Inc.**

1016 North Lincoln Avenue

Pittsburgh, PA 15233

Andrew Horchler (216) 272-3882

21-1-S3.04-2932 GSFC

[LiDAR-based Navigation and Mapping for Rendezvous, Proximity Operations, Docking](#) [30]

- **ATA Engineering, Inc.**

13290 Evening Creek Drive South

San Diego, CA 92128

Joshua Davis (858) 480-2028

21-1-Z3.04-1174 LaRC

[Evolvable Control and Testing Technologies for OSAM Robots](#) [31]

- **ATA, LLC**

8521 Leesburg Pike, Suite 310

Vienna, VA 22182

Craig Parisot (202) 489-7449

21-1-A3.01-3039 LaRC

[Risk Based Trajectory Service](#) [32]

- **ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Joe Isaacs (408) 736-2822

21-1-A3.01-1541 ARC

[Weather Guidance for Upper Class E Traffic Management](#) [33]

- **ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Joe Isaacs (408) 736-2822

21-1-A3.03-1540 ARC

[Go-Around Prediction Service](#) [34]

- **ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Joe Isaacs (408) 736-2822

21-1-A3.01-1537 ARC

[NAS Metering Impact Prediction and Collaborative Scheduling System](#) [35]

- **ATC-NY, Inc.**

P.O. Box 422

Trumansburg, NY 14886

Richard Smith (607) 257-1975

21-1-S5.03-1188 GSFC

[Abstraction and Model Simplification to Identify Interesting Data \(RAMS\)](#) [36]

- **ATI Industrial Automation, Inc.**

1031 Goodworth Drive

Apex, NC 27539

Landin Fisher (919) 772-0115

21-1-S4.02-2284 JPL

[Six-Axis Force-Torque Transducer for Use in Cryogenic and High-Radiation Environments](#) [37]

- **Atlantic Drone Pros, LLC**

2605 Whispering Oaks Terrace

Midlothian, VA 23112

Keith Mottas (804) 415-7030

21-1-A3.02-2295 ARC

[FLITE Core Human/Autonomy Interaction](#) [38]

- **ATLAS Space Operations**

10850 East Traverse Highway, Suite 3355

Traverse City, MI 49684

Edward McCarty (719) 360-0496

21-1-H9.07-2521 GRC

[Unified Analytics Engine](#) [39]

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

282 Century Place, Suite 1000

Louisville, CO 80027

Rachel Hauser (303) 993-8039

21-1-S1.12-2995 GSFC

[Multichannel Thermosphere Ionosphere Photometer Scanner \(MTIPS\)](#) [40]

- **Atomos Nuclear and Space Corporation**

1644 Platte Street

Denver, CO 80202

William Kowalski (720) 629-9771

21-1-Z1.05-1497 GRC

[Heat Energy to Light Advanced Conversion and Transmission System](#) [41]

- **ATSP Innovations**

6762 Shadyvilla Lane, Building #3

Houston, TX 77055

Jacob Meyer (217) 778-4400

21-1-H8.01-1331 LaRC

[In-space testing of reversible adhesive system](#) [42]

- **ATSP Innovations**

6762 Shadyvilla Lane, Building #3

Houston, TX 77055

Jacob Meyer (217) 778-4400

21-1-S4.04-1402 GRC

[Phase change lubricant for superlubricity of sliding contacts in extreme space environment](#) [43]

- **ATSP Innovations**

6762 Shadyvilla Lane, Building #3

Houston, TX 77055

Jacob Meyer (217) 778-4400

21-1-Z13.02-1328 GRC

[Surface micro-texturing of advanced bearing materials for lunar dust mitigation](#) [44]

- **Aureus Innovation, LLC**

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

Royal Oak, MI 48068

Matthew Sease (812) 314-5119

21-1-H6.04-2202 GSFC

[Simplifying SysML for Accelerated MBSE Adoption](#) [45]

- **AvMet Applications**

1800 Alexander Bell Drive

Reston, VA 20191

Mark Klopfenstein (703) 453-9192

21-1-A3.04-2394 LaRC

[Weather-Aware UAM System Capacity Manager](#) [46]

- **Ballydel Technologies, Inc.**

550 South College Avenue, Suite 110

Newark, DE 19713

Brendan DeLacy (610) 304-0606

21-1-H5.02-2268 MSFC

[The Joining of Carbon-Carbon Composites Using Field-Assisted Sintering Technology](#) [47]

- **Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

21-1-A2.02-2693 AFRC

[LiDAR-Supported Emergency Landing System for AAM Vehicles](#) [48]

- **Beamlet, LLC**

1420 Oak Street, Apartment G

South Pasadena, CA 91030

Ivan Grudin (626) 310-4160

21-1-S1.01-1749 LaRC

[Coherent Lidar Transceiver on a Chip](#) [49]

- **Bechamo, LLC**

22327 19th Avenue Southeast

Bothell, WA 98021

Michael Piedmonte (617) 470-6840

21-1-A1.01-3185 AFRC

[Integrated Flight Control Design and Multidisciplinary Optimization](#) [50]

- **Beyond Photonics, LLC**

6205 Lookout Road, Suite B

Boulder, CO 80301

Charley Hale (303) 475-2088

21-1-S1.01-3062 LaRC

[Compact Transmitter for Methane and Wind Measurements](#) [51]

- **Blazetech Corporation**

29 B Montvale Avenue

Woburn, MA 01801

N Albert Moussa (781) 759-0700

21-1-A3.03-3084 ARC

[UAS Hazard Model \(UHM\)](#) [52]

- **Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

21-1-Z12.01-2467 MSFC

[Sintering End Effector for Regolith](#) [53]

- **Boulder Environmental Sciences and Technology**

6201 Spine Road, Suite B

Boulder, CO 80301

Marian Klein (303) 532-1198

21-1-S1.03-2620 GSFC

[Low-loss deployable reflector antenna at frequencies up to 200 GHz for small satellites](#) [54]

- **Brayton Energy**

75B Lafayette Road

Hampton, NH 03842

Jim Kesseli (603) 601-0450

21-1-Z1.07-3267 GRC

[Cycle Optimization for Mass of Advanced Heat Exchangers Used in Nuclear Space Propulsion](#) [55]

- **Brimrose Technology Corporation**

19 Loveton Circle, P.O. Box 616

Sparks, MD 21152

Diane Murray (936) 588-6901

21-1-H8.01-2139 JSC

[Mercurous Halide Crystals Growth in the International Space Station \(ISS\)](#) [56]

- **Brimrose Technology Corporation**

19 Loveton Circle, P.O. Box 616

Sparks, MD 21152

Diane Murray (936) 588-6901

21-1-S1.11-1815 GSFC

[A Compact, Integrated, Modular, Multi-Technology, Optical Sensor \(CIMMOS\) for In-Situ Characterization of Ocean Worlds](#) [57]

- **Busek Company, Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 655-5565

21-1-S1.06-2529 GSFC

[Variable High Voltage DC with 2 KHz AC Modulator for Faraday Cup Applications](#) [58]

- **Cactus Materials**

7700 South River Parkway

Chandler, AZ 85284

Mohammed Rafiqul Islam (480) 213-4704

21-1-S1.04-3292 JPL

[Multi-stacked Aligned Wafer Bonding for Wide-bandwidth AR treated silicon optics](#) [59]

- **CFD Research Corporation**

6820 Moquin Drive Northwest

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

21-1-Z1.06-1965 GRC

[High-Voltage Gallium Oxide Devices for Space Power Electronics](#) [60]

- **CFD Research Corporation**

6820 Moquin Drive Northwest

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

21-1-Z7.04-1969 MSFC

[Modeling Sensor Radiance Modifications due to Dust Clouds from Plume Surface Interactions](#) [61]

- **CFD Research Corporation**

6820 Moquin Drive Northwest

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

21-1-A1.05-1953 LaRC

[An Intelligent Framework based on Parametric Reduced-Order Model Database for Uncertainty Quantification in Aeroelasticity](#) [62]

- **CGH Technologies, Inc.**

600 Maryland Avenue, Southwest Suite 800W

Washington, DC 20024

Cindy Troutman (202) 580-7401

21-1-A3.01-3300 LaRC

[AirWAZE Expanding Flight Operator Autonomy in National Airspace System \(NAS\) Decision Making](#) [63]

- **ChromoLogic, LLC**

1225 South Shamrock Avenue

Monrovia, CA 91016

Naresh Menon (626) 381-9974

21-1-H12.01-2152 JSC

[Multilamellar vesicle encapsulation of JP4-039 as a radioprotector of space radiation-induced health risks](#) [64]

- **Chronos Technology (Div. of FMI, Inc.)**

15302 Bolsa Chica Street

Huntington Beach, CA 92649

Kouros Sariri (310) 625-5834

21-1-S4.04-2228 JPL

[-200 °C Rad-Hard Compact Rugged RF Modulator](#) [65]

- **Circle Optics, Inc.**

260 E Main Street, Suite 6372

Rochester, NY 14604

Ian Gauger (315) 879-3034

21-1-A1.09-2514 AFRC

[Real-Time Panoramic Sensing for Enhanced Air Vehicles](#) [66]

- **CisLunar Industries USA, Inc.**

1040 South Gaylord Street, Suite 78

Denver, CO 80209

Gary Calnan (303) 995-0733

21-1-Z3.03-1339 MSFC

[In-Space Recycling System Using Electromagnetic Levitation and Induction to Process Metal into Rods](#) [67]

- **Climacell**

280 Summer Street, 8th Floor

Boston, MA 02210

Joe Bartlett (781) 462-5725

21-1-A2.03-1375 LaRC

[Weather Testbed for Urban Air Mobility](#) [68]

- **Colorado Power Electronics, Inc.**

120 Commerce Drive, Unit 1

Fort Collins, CO 80524

Ashley Smith (970) 482-0191

21-1-Z1.05-2519 GRC

[Prototyping 12.5KW Hall Thruster Discharge Power Supply Paralleling 2.25KW Rated Discharge Modules](#) [69]

- **Composites Automation, LLC**

9 Adelaide Court

Newark, DE 19702

Dirk Heider (302) 831-8898

21-1-Z4.06-1281 MSFC

[Manufacturing Assessment of Tailorable and Ultra-Thin TuFF Composites](#) [70]

- **Concepts NREC, LLC**

217 Billings Farm Road

White River JCT, VT 05001

Bradley Leiser (802) 280-6147

21-1-Z10.01-2328 GRC

[Integrated Brayton Cryocooler for LOx and LH2 Applications](#) [71]

- **Connecticut Analytical Corporation**

696 Amity Road

Bethany, CT 06524

Joseph Bango (203) 393-9666

21-1-H3.02-1919 JPL

[Microbial Monitoring of Spacecraft & Habitats Utilizing Advanced Metabolomics Analytical Methods](#) [72]

- **Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Melissa Kinney (609) 538-0444

21-1-A1.08-1823 ARC

[Surface Mount On-blade Optical Telemetry System \(SMOOTS\)](#) [73]

- **Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Melissa Kinney (609) 538-0444

21-1-A1.01-1814 ARC

[Multidisciplinary Design Optimization Framework for DEP Aircraft Including Flight Controls](#) [74]

- **Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Melissa Kinney (609) 538-0444

21-1-S5.06-2325 GSFC

[Parallelization Toolkit for NASA CCMC](#) [75]

- **Convergent Manufacturing Technologies US**

1101 North Northlake Way, Suite 200

Seattle, WA 98103

Kara Jackson (425) 374-0302

21-1-Z4.06-3171 MSFC

[Process Simulation & Optimization for Advanced Tailorable Composites](#) [76]

- **CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 405-3363

21-1-S4.04-2330 GSFC

[High Temperature SiC Modular Power Conversion Platform](#) [77]

- **CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 405-3363

21-1-Z1.05-2004 GRC

[Dual Output Bidirectional Integrated DCDC Isolated SiC-based Power Converter for Space Applications](#) [78]

- **Cornerstone Research Group, Inc.**

510 Earl Boulevard

Miamisburg, OH 45342

Jackie Luce (937) 320-1877

21-1-S3.03-1126 JPL

[Advanced Primary Cell Model](#) [79]

- **Cornerstone Research Group, Inc.**

510 Earl Boulevard

Miamisburg, OH 45342

Jackie Luce (937) 320-1877

21-1-Z13.02-1132 KSC

[Dust Tolerant Joint for In-Space Assembly](#) [80]

- **Cornerstone Research Group, Inc.**

510 Earl Boulevard

Miamisburg, OH 45342

Jackie Luce (937) 320-1877

21-1-A1.06-1131 GRC

[Advanced High Voltage Protection for Vertical Lift Technology](#) [81]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

21-1-S3.05-1401 AFRC

[A Compact Drone-Based Instrument Sonde for Venus Balloon Missions](#) [82]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

21-1-S1.09-1352 GSFC

[High-Performance Recuperators for Low-Temperature Turbo-Brayton Cryocoolers](#) [83]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

21-1-H4.05-1777 JSC

[Improved Feedwater Supply Bladder for EVA](#) [84]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

21-1-S1.07-1353 JPL

[Miniature Vacuum Pump for Planetary Atmosphere Aerosol Separator](#) [85]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

21-1-Z1.07-1683 GRC

[Supercritical CO2 Brayton Converter for Nuclear Electric Propulsion](#) [86]

- **Crown Consulting, Inc.**

1400 Key Boulevard, Suite 1100

Arlington, VA 22209

Ruben Del Rosario (571) 451-9265

21-1-A2.03-1888 LaRC

[AAM Community Integration Platform](#) [87]

- **Dallas Optical Systems, Inc.**

1790 Connie Lane

Rockwall, TX 75032

John Casstevens (972) 564-1156

21-1-S2.03-2743 GSFC

[Additive Manufactured Very Light Weight Diamond Turned Aspheric Mirror](#) [88]

- **Digital Optics Technologies, Inc.**

1645 Hicks Road, Suite H

Rolling Meadows, IL 60008

Selim Shahriar (847) 358-2592

21-1-S3.04-1898 MSFC

[Theoretical and Experimental Investigation of Quantum Noise Induced Sensitivity Limit of a Fast Light Ring Laser Gyroscope](#) [89]

- **Dynovas, Inc.**

6906 Sprouse Court

Springfield, VA 22153

Quinn McAllister (508) 717-7494

21-1-H5.01-2376 LaRC

[Motorless Extension, Leveling, and Tracking \(MELT\) Array System](#) [90]

- **E-beam, Inc.**

21070 Southwest Tile Flat Road

Beaverton, OR 97007

Bernard Vancil (503) 628-0703

21-1-Z10.04-2032 GRC

[High Current Plasma Cathode for Efficient Space Propulsion](#) [91]

- **Elementum 3D**

400 Young Court, Unit 1

Erie, CO 80516

Jeremy Iten (720) 545-9016

21-1-Z10.04-2326 GRC

[Materials and Process for Additive Manufacturing of Large Diameter Hall-Effect Thrusters.](#) [92]

- **Elphel, Inc.**

1455 West 2200 South, Suite 205

West Valley City, UT 84119

Olga Filippova (801) 783-5555

21-1-A1.09-2356 AFRC

[Long-Range Thermal 3D Perception in Low Contrast Environments](#) [93]

- **Emergent Space Technologies, LLC**

7901 Sandy Spring Road, Suite 511

Laurel, MD 20707

Everett Cary (301) 345-1535

21-1-Z8.11-3012 ARC

[Plan Generation for Autonomous Small Spacecraft Swarms](#) [94]

- **Emergent Space Technologies, LLC**

7901 Sandy Spring Road, Suite 511

Laurel, MD 20707

Everett Cary (301) 345-1535

21-1-S5.03-3026 GSFC

[Machine Learning-Accelerated Grid Environment](#) [95]

- **Empirical Systems Aerospace, Inc.**

3580 Sueldo Street

San Luis Obispo, CA 93401

Andrew Gibson (805) 704-1865

21-1-A1.06-2874 GRC

[Onboard Prognostics and Health Management for UAM using Machine Learning Techniques](#) [96]

- **En'Urga, Inc.**

1201 Cumberland Avenue, Suite R

West Lafayette, IN 47906

Deepa Divakaran (765) 497-3269

21-1-H10.01-1291 SSC

[High Speed Emission Tomography for Ground Test Facilities](#) [97]

- **EP Analytics, Inc.**

12121 Scripps Summit Drive, Suite 130

San Diego, CA 92131

Laura Carrington (858) 775-5063

21-1-S5.01-1788 ARC

[SimplifyHPC: A Framework to Simplify HPC Codes Deployment](#) [98]

- **EpiSys Science, Inc.**

13025 Danielson Street, Suite 106

Poway, CA 92064

Epiphany Ryu (858) 513-1503

21-1-Z8.11-2180 ARC

[TeamAstro: Coordination and Sensing for a Team of Spacecraft Swarm](#) [99]

- **EpiSys Science, Inc.**

13025 Danielson Street, Suite 106

Poway, CA 92064

Epiphany Ryu (858) 513-1503

21-1-H9.07-2179 GRC

[Lunar Network Autonomous Routing \(LEARN\)](#) [100]

- **eXaminArt, LLC**

922 San Leandro Avenue, Suite G

Mountain View, CA 94043

Philippe Sarrazin (650) 799-2118

21-1-S1.07-2172 ARC

[Miniature High Resolution Planetary X-ray Diffraction Instrument](#) [101]

- **eXaminArt, LLC**

922 San Leandro Avenue, Suite G

Mountain View, CA 94043

Philippe Sarrazin (650) 799-2118

21-1-S5.03-3258 ARC

[ML-based Model for Autonomous analysis of Spectral Data.](#) [102]

- **Exquadrum, Inc.**

12130 Rancho Road

Adelanto, CA 92301

J. Mathew Jones (916) 759-2988

21-1-Z8.09-2030 MSFC

[TopFuel Integrated Lunar Transfer Stage](#) [103]

- **Faraday Technology, Inc.**

315 Huls Drive

Englewood, OH 45315

Maria Inman (937) 836-7749

21-1-H8.01-1714 JSC

[LEO Manufacturing of 3D Printed Covetic Nanomaterials for Advanced Electronics](#) [104]

- **Fifth Gait Technologies, Inc.**

835 Puente Drive

SANTA BARBARA, CA 93110

Amanda Borders (256) 886-8353

21-1-S5.06-3081 JSC

[Advanced Climatology Innovations for Space Radiation Environments](#) [105]

- **Firefly Research, Inc.**

1320 Arrow Point Drive, Suite 109

Cedar Park, TX 78613

Brad Schneider (512) 277-6959

21-1-Z8.09-1597 GRC

[Reusable High Delta-V Transfer Stage for Small Spacecraft](#) [106]

- **Flight Works, Inc.**

17905 Sky Park Circle, Suite F

Irvine, CA 92614

Eric Besnard (949) 387-9552

21-1-Z8.09-2218 MSFC

[High Performance Pump-fed Transfer Stage for Venture Class Deep Space Missions](#) [107]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

21-1-S1.10-1838 JPL

[850 nm Narrow Linewidth Laser for Atomic Sensors](#) [108]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Daniel Renner (805) 729-0514

21-1-S1.04-1792 LaRC

[GeSiSn PIN detector arrays for beam alignment in coherent Doppler LiDAR systems](#) [109]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

21-1-Z7.01-1832 GSFC

[Rapidly Tuned Random Access Laser Source](#) [110]

- **Gendell Associates DBA Folditure**

1031 Bloomfield Street

Hoboken, NJ 07030

Alexander Gendell (718) 908-5877

21-1-H5.01-2752 LaRC

[Sunflake Solar Array and Ultra Compact Tripod Tower \(UCTT\)](#) [111]

- **Geoplasma Research, LLC**

111 Veterans Memorial Boulevard, Suite 1600

Metairie, LA 70005

Jeff Tomeny (504) 831-1900

21-1-H8.01-2824 JSC

[International Space Station Utilization for Commercialization of Electromagnetic Pulse \(EMP\) Resistant Materials](#) [112]

- **Giner, Inc.**

89 Rumford Avenue

Newton, MA 02466

Lisa Foley (413) 427-4904

21-1-S3.02-2477 GRC

[Novel Multilayered Metal Insulation Using Custom Standoffs](#) [113]

- **Giner, Inc.**

89 Rumford Avenue

Newton, MA 02466

Lisa Foley (413) 427-4904

21-1-H3.07-2484 LaRC

[Flame Retardant Textile Treatments for Crew Clothing](#) [114]

- **Global Technology Connection, Inc.**

2839 Paces Ferry Road, Suite 1160

Atlanta, GA 30339

Ash Thakker (770) 803-3001

21-1-S5.05-1293 JPL

[ARADISS: Adaptive Real-Time Anomaly Detection & Identification For Space Systems](#) [115]

- **Gloyer-Taylor Laboratories, LLC**

112 Mitchell Boulevard

Tullahoma, TN 37388

Paul Gloyer (931) 455-7333

21-1-Z10.01-1226 MSFC

[RCS Gas Generation System](#) [116]

- **GreenSight Agronomics, Inc.**

12 Channel Street, Suite 605

Boston, MA 02210

Joel Pedlikin (617) 633-4919

21-1-A1.09-1429 LaRC

[Autonomous Decision Support System for Sense and Avoid \(ADeSSSA\)](#) [117]

- **GSSL, Inc.**

PO Box 909

Tillamook, OR 97141

Kristen Lachenmeier (503) 842-1990

21-1-S3.05-3098 JPL

[Techniques to Support the Aerial Deployment and Inflation of Venus Aerobots](#) [118]

- **Handix Scientific, LLC**

5485 Conestoga Court, Suite 104B

Boulder, CO 80301

Gavin McMeeking (970) 310-5186

21-1-S1.08-1956 LaRC

[The Holographic Multi-wavelength Imaging Extinctionmeter \(HoloMIE\): A new cloud probe for characterizing cloud particles and measuring spectral extinction](#) [119]

- **Harvest Moon Automation, Inc.**

19 Franklin Road

Winchester, MA 01890

Stephen Jens (781) 929-5161

21-1-Z5.04-2219 JSC

[Adaptive Robotic Gripper](#) [120]

- **Hedgefog Research, Inc.**

1891 North Gaffey Street, Suite 224

San Pedro, CA 90731

Alex Kolessov (310) 935-2206

21-1-S2.03-1664 MSFC

[Thermal Expansion Mapper](#) [121]

- **HiFunda, LLC**

421 Wakara Way, Suite 210

Salt Lake City, UT 84108

Balakrishnan Nair (801) 897-1221

21-1-H3.05-1771 ARC

[Additively-Manufactured, Net-Shape Adsorbent Beds for Carbon Dioxide Removal](#) [122]

- **Hinetics, LLC**

60 Hazelwood Drive

Champaign, IL 61820

Jonathon Schuh (217) 717-1991

21-1-A1.06-2027 GRC

[Integrated magnetics, insulation, and cooling architecture for robust eVTOL motors](#) [123]

- **HJ Science & Technology, Inc.**

1933 Davis Street, Suite 210

San Leandro, CA 94577

Hong Jiao (408) 464-3873

21-1-H3.02-2153 JPL

[Novel microbial detection technology for long-term spaceflight missions](#) [124]

- **Human Systems Integration, Inc.**

153 Washington Street, Suite 4

East Walpole, MA 02032

Thomas Farrell (305) 926-7928

21-1-H12.03-3228 JSC

[TacGVS - A Wearable Spatial Disorientation Simulator-Trainer](#) [125]

- **IceMOS Technology Corporation**

5749 East Cheney Drive

Paradise Valley, AZ 85253

Raymond Wiley (480) 221-7731

21-1-Z1.06-2388 GSFC

[Radiation-Tolerant High-Voltage, High-Power Electronics WBG Drain Engineered Transistor](#) [126]

- **Imaging Nanosystems, Inc.**

9191 Towne Centre Drive, Suite 355

San Diego, CA 92122

Hiren Thacker (619) 940-7803

21-1-S1.04-2421 LaRC

[High Speed and High Timing Resolution Cycling Excitation Process \(CEP\) Sensor Array for NIR LIDAR](#) [127]

- **Impossible Sensing, LLC**

3407 South Jefferson Avenue

St. Louis, MO 63118

Pablo Sobron (314) 695-6993

21-1-S1.01-2846 GSFC

[GRAAL: Geospatial Rastering And Atmospheric Lidar](#) [128]

- **Indiana Integrated Circuits**

1400 East Angela Boulevard, Unit 107

South Bend, IN 46617

Jason Kulick (574) 217-4612

21-1-S3.08-2742 GSFC

[PCB "Boardlets" for Modular, Scalable High-Performance Printed Circuit Assemblies](#) [129]

- **Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 530-2011

21-1-H3.07-2719 JSC

[Nanolayer-Coated Flame-Retardant Fabrics for Space Crew Clothing](#) [130]

- **InnoSys, Inc.**

2900 South Main Street

Salt Lake City, UT 84115

Larry Sadwick (801) 975-7399

21-1-S4.04-2183 GRC

[Further development and demonstration of S-band Venus Capable Radio Transmitter](#) [131]

- **Innovative Aerospace, LLC**

8 Woodland Ridge

Southwick, MA 01077

Lynne Stapleton (413) 426-8121

21-1-Z13.03-2204 JSC

[xEMU Lunar Dust Protection Devices](#) [132]

- **Innovative Scientific Solutions, Inc.**

7610 McEwen Road

Dayton, OH 45459

Larry Goss (937) 429-4980

21-1-Z7.06-2350 LaRC

[Optical Measurements of Particle Size and Trajectory in an Arc Jet](#) [133]

- **InnoVeering, LLC**

100 Remington Boulevard

Ronkonkoma, NY 11779

Jimmy Pappas (631) 615-0034

21-1-A1.07-2280 GRC

[MEMS Solid State Semiconductor based Thermionic Converter \("mSSTiC"\)](#) [134]

- **InnoVeering, LLC**

100 Remington Boulevard

Ronkonkoma, NY 11779

Robert Bakos (631) 793-8439

21-1-S3.05-2469 GSFC

[Plasma-based Wind Speed Sensor](#) [135]

- **InnoVital Systems, Inc.**

3901 Calverton Blvd, Ste 155

Calverton, MD 20705

Debrisha McDow (240) 790-0589

21-1-A1.08-2740 LaRC

[Novel Surface Velocity Sensor](#) [136]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

21-1-A1.01-3216 LaRC

[Incorporating control design for distributed electric propulsion in MDO](#) [137]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

21-1-A3.04-3268 ARC

[UAM Demand Capacity Modeling through Ensemble Learning \(UDC-ModEL\)](#) [138]

- **Intelligent Fiber Optic Systems Corporation**

4425 Fortran Drive

San Jose, CA 95134

Behzad Moslehi (408) 565-9004

21-1-Z10.03-1310 SSC

[Distributed High-Temperature Fiber-Optic Temperature Sensing System for Nuclear Thermal Propulsion](#) [139]

- **Intelligent Optical Systems, Inc.**

2520 West 237th Street

Torrance, CA 90505

Olivia Huang (424) 263-6338

21-1-Z4.05-2585 MSFC

[Adaptive Velocity-Sensing Receiver for In-Line Inspection of Additive Manufactured Aerospace Parts](#) [140]

- **Intellisense Systems, Inc.**

21041 South Western Avenue

Torrance, CA 90501

Selvy Utama (310) 320-1827

21-1-H6.22-1743 GRC

[Neuromorphic Enhanced Cognitive Radio](#) [141]

- **Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Deontae Lafayette (407) 697-3697

21-1-A2.01-1659 AFRC

[MEMSonic Boom: Sensing and Acquisition for Sonic Boom Flight Research](#) [142]

- **Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Deontae Lafayette (407) 697-3697

21-1-A1.02-1999 LaRC

[Flat-Package MEMS Fuselage Microphones for External Airplane Fluctuating Pressure Field Measurements](#) [143]

- **Irvine Sensors Corporation**

3000 Airway Ave, #FRNT

Costa Mesa, CA 92626

John Carson (714) 444-8725

21-1-S1.03-2757 JPL

[Stacked Programmable Analog and Digital Electronic System \(SPADES\)](#) [144]

- **K Sciences**

4440 Evangel Circle

Huntsville, AL 35816

Valentin Korman (256) 682-4743

21-1-Z7.01-2997 ARC

[High Accuracy, Low-Cost Fiber Optic Recession and Temperature Sensor System and Data Acquisition System for Thermal Protection Systems](#) [145]

- **KALSCOTT Engineering, Inc.**

P.O. Box 3426

Lawrence, KS 66046

Suman Saripalli (785) 979-1116

21-1-A3.01-2682 LaRC

[Low SWaP-C RemoteID Device for UAS](#) [146]

- **KALSCOTT Engineering, Inc.**

P.O. Box 3426

Lawrence, KS 66046

Suman Saripalli (785) 979-1116

21-1-A3.04-2238 ARC

[Emergent-to-Legacy Automated Voice Comms for Airspace Safety](#) [147]

- **Kalsi Engineering Inc.**

745 Park Two Drive

Sugar Land, TX 77478

Manmohan Kalsi (281) 240-6500

21-1-Z2.01-1700 JPL

[Miniature passive thermal control valve for mixing or splitting single-phase fluid](#) [148]

- **Kyma Technologies, Inc.**

8829 Midway West Road

Raleigh, NC 27617

Heather Splawn (919) 789-8880

21-1-Z1.06-3130 JPL

[Rad-Hard Ga2O3 Diodes](#) [149]

- **L'Garde, Inc.**

15181 Woodlawn Avenue

Tustin, CA 92780

Larry Beebe (714) 259-0771

21-1-Z12.01-3222 GRC

[Lightweight and Low Stow Volume Solar Concentrator for Lunar Based In-Situ Resource Utilization](#) [150]

- **L'Garde, Inc.**

15181 Woodlawn Avenue

Tustin, CA 92780

Linden Bolisay (714) 259-0771

21-1-S1.02-1963 JPL

[ShaMAn - Shape Memory Alloy Antenna](#) [151]

- **LaserMotive Inc. DBA PowerLight Technologies**

22026 68th Avenue South

Kent, WA 98032

April Cook (253) 872-3300

21-1-Z1.05-3110 GRC

[Efficient Laser Power Beaming for Lunar Operations](#) [152]

- **Leiden Measurement Technology, LLC**

1230 Mountain View Alviso Road, Suite A

Sunnyvale, CA 94089

Nathan Bramall (510) 301-8980

21-1-H3.02-2794 JPL

[Flow-through Luminescence Analyzer for Real-time Evaluation \(FLARE\)](#) [153]

- **LeNginer**

1313 South Washington Avenue

Titusville, FL 32780

Al Rahrooh (407) 733-1714

21-1-A2.01-2872 AFRC

[LeNginer's MITA Technology for Flight Test and Measurements](#) [154]

- **Lenzner Research, LLC**

125 East Canyon View Drive

Tucson, AZ 85704

Matthias Lenzner (347) 301-5402

21-1-S3.04-2534 MSFC

[Optical gyroscopes and accelerometers at the fundamental precision limit](#) [155]

- **Lewiz Communications, Inc.**

738 Charcot Avenue

San Jose, CA 95131

Mary Le (408) 836-9279

21-1-Z2.02-2105 GSFC

[Highly Parallel, Fast Memory Access for RISC-V Many-Core Processors](#) [156]

- **LongWave Photonics, LLC**

958 San Leandro Avenue

Mountain View, CA 94043

Alan Lee (617) 399-6405

21-1-S1.03-1992 GSFC

[Wideband THz Local Oscillator](#) [157]

- **Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

John Forester (434) 220-9449

21-1-H12.03-2293 JSC

[3WAVeS – Three-Axis Wearable Adaptive Vestibular Stimulator](#) [158]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

21-1-S2.05-1514 JPL

[Integrated Photonic Spectrograph](#) [159]

- **M4 Engineering, Inc.**

4020 Long Beach Boulevard

Long Beach, CA 90807

Kevin Roughen (562) 981-7797

21-1-H5.02-2591 AFRC

[Low Cost Carbon-Carbon Composites for Hot Structures](#) [160]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

21-1-Z10.01-3013 JSC

[Integrated Cryogenic Propellant Liquefaction System \(I-CPLS\)](#) [161]

- **Martian Sky Industries, LLC**

1643 Lee Road Street 7

Cleveland Heights, OH 44118

Douglas Marsh (440) 725-7747

21-1-Z3.04-2263 LaRC

[Decluttering Earth Orbit to Repurpose for Bespoke Innovative Technologies \(DEORBIT\) System for Low-Earth Orbit](#) [162]

- **Material Answers, LLC**

66 Buckskin Drive

Weston, MA 02493

Chris Scott (617) 378-1976

21-1-H8.01-1850 LaRC

[Polymer Composites with Exceptional Atomic Oxygen Resistance for Low Earth Orbit Applications](#) [163]

- **Materials Modification, Inc.**

2809-K Merrilee Drive

Fairfax, VA 22031

Tirumalai Sudarshan (703) 560-1371

21-1-H3.07-3144 LaRC

[Flame Retardant Polyamide Fibers for Space Crew Clothing](#) [164]

- **MemComputing, Inc.**

9909 Huennekens Street, 110

San Diego, CA 92121

John Beane (760) 402-6721

21-1-S5.01-2622 ARC

[Virtual MemComputing Machine](#) [165]

- **Metacept Systems**

1206 Broad Street

Durham, NC 27705

Jonah Gollub (858) 231-9367

21-1-S1.02-2447 GSFC

[Low-Power W-Band Transceiver using COTS Solutions](#) [166]

- **Metis Technology Solutions, Inc.**

2309 Renard Place Southeast, Suite 200

Albuquerque, NM 87106

Joy Colucci (650) 207-9378

21-1-Z5.04-1958 ARC

[Collaborative Sensing and Mapping for IVA Robots](#) [167]

- **Metron, Inc.**

1818 Library Street

Reston, VA 20190

Seth Blackwell (703) 787-8700

21-1-S5.05-2018 MSFC

[Mission-Informed Fault Management](#) [168]

- **Microscale, Inc.**

800 West Cummings Park, Suite 3350

Woburn, MA 01801

Xingtao Wu (339) 927-1996

21-1-S2.01-1942 JPL

[Manufacturing and Tooling Optimization for Mirror Quality Assurance of High-Actuator-Count Deformable Mirrors](#) [169]

- **Microtech Energy, LLC.**

3740 Edenderry Drive

Troy, MI 48083

Satyendra Kumar (248) 825-2442

21-1-Z3.03-2482 MSFC

[Microwave Plasma Assisted Metal Separation for Recycling in Zero Gravity](#) [170]

- **Miles Space, Inc.**

5007 West Nassau Street

Tampa, FL 33607

Wesley Faler (734) 476-1437

21-1-Z8.02-3103 GSFC

[Fault Tolerant Beam Steering for Cubesats](#) [171]

- **Miller Scientific, Inc.**

216 West Cherry Avenue

Flagstaff, AZ 86001

Steve Miller (928) 779-5000

21-1-Z7.03-2654 LaRC

[Flexible Gas Barrier to Reduce Hot Gas Ingress at Surface of Hypersonic Inflatable Aerodynamic Decelerator](#) [172]

- **Mirios, Inc.**

835 East Canon Perdido Street, #104

Santa Barbara, CA 93103

Alexander Spott (805) 364-2987

21-1-S1.01-1009 GSFC

[Compact Integrated Midwave Infrared Spectrometer](#) [173]

- **Momentum Optics, LLC**

2113 Seaway Court

Longmont, CO 80503

Stephanie Bourdon (952) 393-1859

21-1-S2.04-1436 GSFC

[Laser Fabrication with Integrated Metrology for Low-Cost Free-Form Optics](#) [174]

- **Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Chris Brinton (703) 980-3961

21-1-H6.04-1205 GSFC

[Exchange Model for Harmonizing Model-Based System Engineering \(MBSE\) Products and Tools](#) [175]

- **Motiv Space Systems, Inc.**

350 North Halstead Street

Pasadena, CA 91107

Tom McCarthy (626) 389-5783

21-1-Z3.05-2626 GSFC

[Robotic Arm Force Torque Sensing System \(RAFTSS\)](#) [176]

- **Motiv Space Systems, Inc.**

350 North Halstead Street

Pasadena, CA 91107

Tom McCarthy (626) 389-5783

21-1-Z3.04-2593 LaRC

[CrossLink](#) [177]

- **Multiscale Systems, Inc.**

49 Canterbury Street, Suite 500

Worcester, MA 01610

Jesse Silverberg (855) 955-7900

21-1-H8.01-2347 JSC

[Accelerated Aging of Lightweight High-Strength Mechanical Metamaterials](#) [178]

- **Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Mike Mayo (512) 389-9990

21-1-S3.06-1633 JPL

[High Density Cooling and Efficient Thermoelectric Heat Pumps](#) [179]

- **Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Mike Mayo (512) 389-9990

21-1-H3.02-2497 GRC

[Fluorescence Spectroscopy Imager for Microbial Monitoring of Habitat Surfaces](#) [180]

- **Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Mike Mayo (512) 389-9990

21-1-S1.08-1769 JPL

[Compact Imaging Spectropolarimeter Based on Multifunction Meta-optic](#) [181]

- **Nanohmics, Inc.**

6201 East Oltorf Street, Suite 400

Austin, TX 78741

Mike Mayo (512) 389-9990

21-1-Z8.08-2807 ARC

[Adaptive Optics for Low-Cost CubeSat Optical Systems](#) [182]

- **NanoMEMS Research, LLC**

4000 Barranca Parkway, Suite 250

Irvine, CA 92604

Hector De Los Santos (949) 682-7702

21-1-H9.05-2907 GRC

[Quantum Field Communications](#) [183]

- **NanoRacks, LLC**

503 Forge River Road

Webster, TX 77598

Christopher Cummins (832) 632-7754

21-1-Z8.02-3303 ARC

[Using Autonomous Outposts as Data Relays to Support Distributed Spacecraft](#) [184]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Amanda Moyer (540) 626-6266

21-1-Z8.10-1483 LaRC

[Wireless Passive Wideband DC to 5MHz Sensors](#) [185]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Amanda Moyer (540) 626-6266

21-1-H3.07-1485 LaRC

[Next Generation, Fire Resistant HybridSil Polyamide Fibers for IVA and Space Habitat Apparel](#) [186]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

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21-1-Z4.05-1367 LaRC

[Ultra-Wide Bandwidth, Conformal Strain Sensors for Nondestructive Evaluation Applications](#) [187]

- **Nanovox, LLC**

15985 Northwest Schendel Avenue, Suite 201

Beaverton, OR 97006

Chelsea Ozuna (971) 223-5646

21-1-Z8.10-3108 MSFC

[Multi-Materials Additive-Manufacturing for Platform-Integrated Avionics](#) [188]

- **Nanovox, LLC**

15985 Northwest Schendel Avenue, Suite 201

Beaverton, OR 97006

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21-1-Z8.08-3107 ARC

[Additive Manufacturing for CubeSat Optics](#) [189]

- **Natural Intelligence Systems, Inc.**

800 West Main Street, #1460

Boise, ID 83702

Terrence Leslie (703) 967-0804

21-1-S5.05-2487 JPL

[Neuromorphic Machine Learning for Fault Management for Space Vehicle Applications](#) [190]

- **nFlux**

550 North Figueroa Street, Apartment 5084

Los Angeles, CA 90012

Seyed Sajjadi (818) 934-3093

21-1-H6.23-3322 ARC

[Sigma as an Augmented Cognitive Architecture for Human Exploration Missions Beyond Cislunar Orbit](#) [191]

- **Nokomis, Inc.**

310 5th Street

Charleroi, PA 15022

Eli Polovina (724) 483-3946

21-1-A2.02-2555 ARC

[Enabling Aircraft Autonomy](#) [192]

- **NOUR, LLC**

1500 Sheridan Road, Unit 8A

Wilmette, IL 60091

Manijeh Razeghi (847) 491-7251

21-1-S1.04-1594 GSFC

[Extended Short Wave Infrared Focal Plane Array for Versatile Imaging Systems](#) [193]

- **NOVI, LLC**

2800 Shirlington Road, Suite 801

Arlington, VA 22206

Amit Mehra (202) 213-2846

21-1-Z8.12-1826 ARC

[Rapidly Reconfigurable Small-Sats for Enhanced Mission Capabilities](#) [194]

- **Novus Energy Technologies, Inc.**

7548 Silver View Lane

Raleigh, NC 27613

Peter Thomas (919) 619-8153

21-1-Z2.01-2526 JSC

[Passively Actuated Ultra-Low Mass Radiator for Lunar Surface](#) [195]

- **Okean Solutions, Inc.**

1211 East Denny Way, 32A

Seattle, WA 98122

Maurice Prather (206) 383-0181

21-1-S5.05-1894 JPL

[Fault Management Analysis Tool For Model Centric Systems Engineering](#) [196]

- **OneSky Systems Inc.**

220 Valley Creek Blvd, Suite 401

Exton, PA 19341

Robert Hammett (833) 966-3759

21-1-A3.04-2774 ARC

[UAM Routing and Scheduling in Dynamic and Discoverable Urban Environments](#) [197]

- **Optelligence, LLC**

300 Delaware Avenue, Suite 210-A

Wilmington, DE 19801

Volker Sorger (202) 509-6614

21-1-H6.22-3312 ARC

[Record-SWaP Photonic Cognitive System: Photonic Tensor Cores for Spacecraft & Autonomous Systems Data Processing](#) [198]

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

4221 Rolling Gate Road

Fort Collins, CO 80526

Thomas Murphey (505) 250-3006

21-1-H5.01-2876 LaRC

[R-ROMA VSAT Pedestal](#) [199]

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

4221 Rolling Gate Road

Fort Collins, CO 80526

Thomas Murphey (505) 250-3006

21-1-Z3.03-2842 MSFC

[Tubular Truss Additive Manufacturing](#) [200]

- **OptiPro Systems, LLC**

6368 Dean Parkway

Ontario, NY 14519

Matthew Carlson (585) 265-0160

21-1-S2.04-1261 MSFC

[Polishing of X-Ray Optics](#) [201]

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

19805 Hamilton Avenue

Torrance, CA 90502

Ilana Gat (310) 756-0520

21-1-Z7.06-1879 ARC

[Laser Absorption Imaging diagnostic system for arc jet facilities](#) [202]

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

19805 Hamilton Avenue

Torrance, CA 90502

Ilana Gat (310) 756-0520

21-1-S1.07-2536 GSFC

[In Situ Isotope Analyzer for Lunar and Planetary Science](#) [203]

- **Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

21-1-H9.05-2243 GRC

[A Charge Ramping Quantizer](#) [204]

- **Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

21-1-S1.03-2240 JPL

[A Board Level Solution for Correlation Radiometers](#) [205]

- **Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

21-1-S1.02-2242 JPL

[Dual-channel Multi-Nyquist Zone DAC with Digital Up-conversion](#) [206]

- **Pacific Microchip Corporation**

3916 Sepulveda Boulevard, #108

Culver City, CA 90230

Ieva Ivanauskas (310) 683-2628

21-1-S1.03-2244 JPL

[A 10GHz 4k Frequency Bin Polarimetric Spectrometer ASIC](#) [207]

- **Parabilis Space Technologies, Inc.**

1195 Linda Vista Drive, Suite F

San Marcos, CA 92078

David Brynes (619) 750-4484

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[Wireless field-ready transducer acquisition device](#) [208]

- **Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Carole Leon (520) 382-4813

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[Modal Optimized Vibration dust Eliminator \(MOVE\)](#) [209]

- **Photon Sciences, Inc.**

4520 Savino Drive

Plano, TX 75093

Gary Evans (214) 207-9427

21-1-S5.01-1748 ARC

[Low Cost, Low Power, Low Latency 1602 nm 100 Gbps NRZ Laser-EAM for a 7.2 Tbps Transmitter.](#) [210]

- **Photon Systems, Inc.**

1512 Industrial Park Street

Covina, CA 91722

William Hug (626) 967-6431

21-1-S4.05-2336 JPL

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- **PhotonFoil**

8091 Parkview Drive

Ventura, CA 93001

Bruce Lairson (360) 298-2236

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- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

21-1-S1.06-1579 GSFC

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- **Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 984-9346

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- **Plasma Processes, LLC**

4914 Moores Mill Road

Huntsville, AL 35811

Timothy McKechnie (256) 851-7653

21-1-H5.02-2095 LaRC

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- **Pointwise, Inc.**

213 South Jennings Avenue

Fort Worth, TX 76104

Nick Wyman (817) 377-2807

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- **Pointwise, Inc.**

213 South Jennings Avenue

Fort Worth, TX 76104

Nick Wyman (817) 377-2807

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- **Polarix Corporation**

7960 Silverton Avenue, Suite 119

San Diego, CA 92126

Farida Lim (202) 812-0088

21-1-A1.04-1904 AFRC

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- **Polaronyx, Inc.**

2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

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- **Prime Photonics, LC**

1116 South Main Street

Blacksburg, VA 24060

Eric Grandjacques (540) 739-5416

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- **Prixarc, LLC**

2673 Commons Boulevard, Suite 55

Beavercreek, OH 45431

Vamsy Chodavarapu (937) 782-8206

21-1-S3.08-2159 LaRC

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- **Prixarc, LLC**

2673 Commons Boulevard, Suite 55

Beavercreek, OH 45431

Vamsy Chodavarapu (937) 782-8206

21-1-H6.22-2890 GRC

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- **Psionic, LLC**

1100 Exploration Way

Hampton, VA 23666

Robin Loeffler (757) 325-6835

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- **Q-Peak, Inc.**

135 South Road

Bedford, MA 01730

B. David Green (978) 689-0003

21-1-S1.10-1555 JPL

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- **QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 03063

Mani Sundaram (603) 821-3092

21-1-S1.04-3096 GSFC

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- **Qrona Technologies, LLC**

7622 Executive Drive

Eden Prairie, MN 55344

Brian Hertog (612) 298-6573

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- **Quadrus Advanced Manufacturing, LLC**

289 Dunlop Boulevard, Building 300

Huntsville, AL 35824

Joseph Sims (256) 801-3128

21-1-S2.03-3037 MSFC

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- **QuesTek Innovations, LLC**

1820 Ridge Avenue

Evanston, IL 60201

Kevin Creely (847) 328-5800

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- **Quinstar Technology, Inc.**

24085 Garnier Street

Torrance, CA 90505

Tracy Lee (310) 320-1111

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- **Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 02472

Martin Waters (617) 668-6851

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- **RAPA Technologies, LLC**

64 Bonner Road

Meriden, NH 03770

Marc Ramsey (603) 346-4687

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- **RC Integrated Systems, LLC**

20100 South Western Avenue, Suite A5

Torrance, CA 90501

Naibing Ma (760) 383-1218

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- **Recon RF, Inc.**

10211 Pacific Mesa Boulevard, Suite 408

San Diego, CA 92121

Jeffrey Ritter (619) 732-1691

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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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[Fault Tolerant Computing based on a Reconfigurable Hardware/Software Architecture](#) [235]

- **Resonon, Inc.**

123 Commercial Drive

Bozeman, MT 59715

John Gallub (406) 586-3356

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- **Ridgetop Group, Inc.**

3580 West Ina Road

Tucson, AZ 85741

Wyatt Pena (520) 742-3300

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- **Robocasting Enterprises, LLC**

5660 Pino Avenue Northeast

Albuquerque, NM 87109

Joseph Cesarano (505) 883-0555

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- **Robust Analytics**

1302 Cronson Boulevard, Suite B

Crofton, MD 21114

Peter Kostiuk (410) 980-3667

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- **Rocky Mountain Instrument Co.**

106 Laser Drive

Lafayette, CO 80026

Steven Hahn (303) 664-5000

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- **Sachi Bioworks**

6205 Lookout Road, Unit A

Boulder, CO 80301

Colleen Courtney (720) 361-2159

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- **Sciaky, Inc.**

4915 West 67th Street

Chicago, DE 60638

John O'Hara (312) 459-6849

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- **Sears Scientific Consulting, LLC**

10594 Southeast Isaac Drive

Happy Valley, OR 97086

Christopher Sears (408) 391-4641

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- **Shock Tech, Inc.**

211 Island Road

Mahwah, NJ 07430

Daryoush Allaei (612) 380-4433

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- **Sierra Lobo, Inc.**

102 Pinnacle Drive

Fremont, OH 43420

Phil Putman (419) 499-9653

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- **Sivananthan Laboratories, Inc.**

590 Territorial Drive, Unit H

Bolingbrook, IL 60440

Paul Boieriu (630) 226-0080

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- **Skyhaven Systems, LLC**

25557 Bella Vista Circle, P.O. Box 770252

Steamboat Springs, CO 80477

Michael Kimble (970) 846-0547

21-1-S4.05-1283 JPL

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- **Smart Material Solutions, Inc.**

984 Trinity Road

Raleigh, NC 27607

Stephen Furst (919) 521-4440

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- **Solid Material Solutions, LLC**

55 Middlesex Street, Suite 205

North Chelmsford, MA 01863

Alexander Otto (978) 808-9016

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- **Soterix Medical, Inc.**

237 West 35 Street, 1401

New York, NY 10001

Abhishek Datta (888) 990-8327

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- **Space Environment Technologies, LLC**

1676 Palisades Drive

Pacific Palisades, CA 90272

Kathy Leroux (207) 351-3252

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- **Space Micro, Inc.**

15378 Avenue of Science

San Diego, CA 92128

David Strobel (858) 332-0700

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- **Spark Thermionics**

1540 62nd Street, Suite B

Emeryville, CA 94608

Jared Schwede (360) 389-6882

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[Thermionic energy conversion for hypersonics](#) [253]

- **SPEC, Inc.**

3022 Sterling Circle, Suite 200

Boulder, CO 80301

Paul Lawson (303) 449-1105

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- **Spectral Energies, LLC**

4065 Executive Drive

Dayton, OH 45430

Sukesh Roy (937) 902-6546

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- **Spectral Sensor Solutions, LLC**

10500 Copper Avenue Northeast, Suite I

Albuquerque, NM 87123

Noah Higdon (703) 608-2325

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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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- **Stottler Henke Associates, Inc.**

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

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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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- **Structured Ions, LLC**

10479 South 86th East Avenue

Tulsa, OK 74133

Raman Singh (918) 706-9618

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- **Summit Information Solutions, Inc.**

3957 Westerre Parkway, Suite 120

Richmond, VA 23233

Shuganti Caradonna (804) 840-8477

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- **Summit Information Solutions, Inc.**

3957 Westerre Parkway, Suite 120

Richmond, VA 23233

Shuganti Caradonna (804) 840-8477

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- **Superimaging Display, Inc.**

43239 Osgood Road

Fremont, CA 94539

Ming Zhu (510) 651-1329

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- **SurfPlasma**

8722 Northwest 9th Place

Gainesville, FL 32606

Subrata Roy (810) 516-0991

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- **Syrnatec, Inc.**

95 Pond Place

Middletown, CT 06457

Nishita Mirchandani (860) 594-5248

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- **Systems & Processes Engineering Corporation**

4120 Commercial Center Drive, Suite 500

Austin, TX 78744

Natalie Welp (512) 691-8171

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- **Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Peter Gondek (310) 679-2281

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- **Tactical Computing Laboratories**

55 County Road 462

Muenster, TX 76252

John Leidel (469) 712-6601

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- **Talos Tech, LLC**

274 Quigley Boulevard

New Castle, DE 19720

Hansan Liu (302) 332-9236

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- **TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John D. Wright (303) 940-2347

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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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- **Technology In Blacksburg, Inc.**

265 Industrial Drive

Christiansburg, VA 24073

Tamara Murray (540) 381-8502

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- **Telli Technologies, Inc.**

9319 Robert D. Snyder Road, Suite 204E

Charlotte, NC 28223

Babak Parkhideh (919) 368-2352

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- **Teltrium Solutions, LLC**

6406 Ivy Lane, Suite 210

Greenbelt, MD 20770

Yiru Zhou (301) 356-8873

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- **Teltrium Solutions, LLC**

6406 Ivy Lane, Suite 210

Greenbelt, MD 20770

Yiru Zhou (301) 356-8873

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- **Temper, Inc.**

12333 Luyk Drive Northeast

Cedar Springs, MI 49319

William Dykstra (616) 648-9476

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

9063 Bee Caves Road

Austin, TX 78733

Matthew Berry (512) 615-4482

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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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- **Thermal Expansion Solutions, Inc.**

501 Graham Road

College Station, TX 77845

James Monroe (956) 789-3723

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- **ThermAvant Technologies, LLC**

2508 Paris Road

Columbia, MO 65202

Joseph Boswell (573) 397-6912

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- **Tietronix Software, Inc.**

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Victor Tang (281) 404-7222

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- **Titan Robotics Ltd.**

702 Clark Place

Colorado Springs, CO 80915

Rahul Kasat (302) 437-4687

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- **Toyon Research Corporation**

6800 Cortona Drive

Goleta, CA 93117

Marcella Lindbery (805) 968-6787

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- **TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

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- **TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

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- **TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

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- **TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

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- **Trans Astronautica Corporation**

11404 Camaloa Avenue

Lake View Terrace, CA 91342

Joel Sercel (818) 422-0514

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- **Trans Astronautica Corporation**

11404 Camaloa Avenue

Lake View Terrace, CA 91342

Joel Sercel (818) 422-0514

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- **Transition45 Technologies, Inc.**

28245 Via Del Mar

San Juan Capistrano, CA 92675

Edward Chen (714) 283-2118

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- **Truventic, LLC**

1209 West Gore Street

Orlando, FL 32805

Robert Peale (407) 256-9884

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- **TruWeather Solutions**

235 Harrison Street, Ste 64

Syracuse, NY 13202

Meghan Conway (609) 367-6459

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- **TTH Research, Inc.**

7830 My Way

Clifton, VA 20124

Triem Hoang (703) 344-4575

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- **Tunoptix, Inc.**

3515 South Massachusetts Street

Seattle, WA 98144

John Fijol (508) 904-3045

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- **Ultra Safe Nuclear Corporation-Technologies**

2356 West Commodore Way, Unit 120

Seattle, WA 98199

Paolo Venneri (858) 342-4837

21-1-Z10.03-2783 GRC

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- **Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig N. Ward (818) 899-0236

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- **United Protective Technologies, LLC**

142 Cara Court

Locust, NC 28163

Brent Barbee (980) 233-1431

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- **Unmanned Experts, Inc.**

720 South Colorado Boulevard, Penthouse North

Denver, CO 80246

Bill Cossoff (303) 668-8843

21-1-A3.04-1166 ARC

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- **Valley Tech Systems, Inc.**

160 Blue Ravine Road, Suite A

Folsom, CA 95630

Joseph Viola (916) 760-3603

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- **Vector Atomic, Inc.**

1249 Quarry Lane, Suite 100

Pleasanton, CA 94566

Jamil Abo-Shaeer (925) 249-5959

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- **Vistacent, LLC**

111 Veterans Memorial Boulevard, Suite 1600

Metairie, LA 70005

Jeff Tomeny (504) 831-1900

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- **WarpIV Technologies, Inc.**

5230 Carroll Canyon Road, Suite 306

San Diego, CA 92121

Wendy Steinman (858) 605-1646

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- **WattGlass**

700 West Research Center Boulevard

Fayetteville, AR 72701

Corey Thompson (479) 263-0966

21-1-Z13.01-3223 KSC

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- **Wecoso, LLC**

6741 Brentwood Drive

Huntington Beach, CA 92648

Carl Kirkconnell (714) 222-0424

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

555 Quince Orchard Road, Suite 510

Gaithersburg, MD 20878

Jennifer Duan (301) 200-8368

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[A New Multi-Domain Sensing System for Fault Detection and Remaining Useful Life Prediction Monitoring of Lithium-ion Batteries in Hybrid and/or All-Electric Propulsion](#) [307]

- **Yolo Robotics, LLC**

3433 Oyster Bay Avenue

Davis, CA 95616

John Shepard (530) 574-3555

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