



## Proposals Selected for Negotiation of Contracts

- **3D Array Technology**

1392 Storrs Road, ATL Building, Room 102

Storrs, CT 6269

Sibo Wang (860) 944-3870

20-1-H3.01-6430 MSFC

[Efficient Particulate Carbon Filtration for Space Oxygen Recovery Using Catalytic Nanoarray-Based Porous Metal Monolithic Filters](#) [1]

- **3D-SensIR, Inc**

25762 Hawthorne Place

Stevenson Ranch, CA 91381

Rengarajan Sudharsanan (661) 645-1624

20-1-S1.04-5669 LaRC

[Development of High Sensitivity, TE-Cooled 2 Micron Wavelength LIDAR Receiver](#) [2]

- **Adroit Materials**

2054 Kildaire Farm Rd., Suite 205

Cary, NC 27518

Zlatko Sitar (919) 515-8637

20-1-S1.05-6061 JPL

[Novel, Deep-UV APDs for Atomic Clocks and Space Observation](#) [3]

- **AdValue Photonics, Inc.**

2700 East Bilby Road

AZ, AZ 85706

Shibin Jiang (520) 790-5468

20-1-S1.01-6553 LaRC

[Thirty Millijoule Single Frequency 2 Micron Fiber Lasers for Coherent Wind Lidar](#) [4]

- **AdValue Photonics, Inc.**

2700 East Bilby Road

AZ, AZ 85706

Shibin Jiang (520) 790-5468

20-1-S1.01-6290 GSFC

[100s of kW Peak Power Fiber Amplifier for Next-Generation LiDAR Application](#) [5]

- **Advanced Ceramic Fibers, LLC**

2300 North Yellowstone Highway, Suite 210

Idaho Falls, ID 83401

Kenneth Koller (208) 522-6008

20-1-Z10.03-5147 GRC

[Low-Risk Approach to High-Payoff Ultra-High Temperature Ceramic Matrix Composites](#) [6]

- **Advanced Ceramics Manufacturing**

7800 South Nogales Highway

Tucson, AZ 85756

Mark Angier (520) 547-0856

20-1-Z10.04-6073 GRC

[Robust Ceramics for Hall-Effect Thruster Discharge Channels](#) [7]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

20-1-Z12.01-4941 JSC

[Thermal Management System for Lunar Ice Miners](#) [8]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

20-1-S3.01-4939 GRC

["Dark" Photovoltaic Cells for Space Power Generation](#) [9]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

20-1-S3.06-4765 MSFC

[3D Printed Loop Heat Pipe](#) [10]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

20-1-Z2.01-5300 MSFC

[Passive Thermal Control Valves for Loop Heat Pipes and Pumped Systems](#) [11]

- **Advanced Fluidics, LLC**

4217 Red Bandana Way

Ellicott City, MD 21042

Surya Raghu (443) 864-5295

20-1-A1.07-4606 GRC

[Curved Fluidic Actuators for Turbine Blade Flow Control](#) [12]

- **Advanced Fuel Research, Inc.**

87 Church Street

East Hartford, CT 6108

Michael Serio (860) 528-9806

20-1-H4.01-5668 JSC

[Advanced Multipollutant Trace Contaminant Sorbents for the Exploration Portable Life Support System](#) [13]

- **Advanced Science and Novel Technology**

27 Via Porto Grande

Rancho Palos Verdes , CA 90275

Vladimir Katzman (310) 377-6029

20-1-S1.02-4618 JPL

[Robust Radiation Hard Low Power DAC](#) [14]

- **Advanced Scientific Concepts, LLC**

135 East Ortega Street

Santa Barbara, CA 93101

Brad Short (805) 966-3331

20-1-Z7.01-6169 LaRC

[High Precision Compact Modular Flash LIDAR for Lunar and New Frontiers Mission](#) [15]

- **Advanced Scientific Concepts, LLC**

135 East Ortega Street

Santa Barbara, CA 93101

Bradley Short (805) 966-3331

20-1-S1.01-4962 GSFC

[Flash LIDAR Spatial Resolution and Range Improvements for EDL Applications](#) [16]

- **Advent Innovations Limited**

1225 Laurel Street, Suite 213

Columbia, SC 29201

Ritubarna Banerjee (480) 234-5267

20-1-Z4.05-5141 LaRC

[Ultrasonic Bessel Beams for Inspection of Multilayered Structures and Attenuative Material Systems](#) [17]

- **Adventium Enterprises, LLC**

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111 Third Avenue South, Suite 100

Minneapolis, MN 55401

Kyle Nelson (612) 280-9843

20-1-S5.05-4643 MSFC

[Fault Recovery Instruction Generation using Automata Derived from Traditional Engineering Models \(FRIGATE\)](#) [18]

- **Adventium Enterprises, LLC**

111 Third Avenue South, Suite 100

Minneapolis, MN 55401

Kyle Nelson (612) 280-9843

20-1-H6.04-5136 ARC

[Stakeholder Access to Embedded System Models \(SAESM\)](#) [19]

- **ADVR, Inc.**

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

20-1-S1.10-5426 JPL

[Enabling Optical Components for Yb Trapped Ion Systems](#) [20]

- **Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 1821

David Gordon (978) 663-9500

20-1-A1.03-5238 LaRC

[Aerosol Absorption Standard](#) [21]

- **Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 1821

David Nelson (978) 663-9500

20-1-S1.08-5149 ARC

[Two-Channel, Fast Time-Response CAPS NOx Monitor](#) [22]

- **Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 1821

David Gordon (978) 663-9500

20-1-A1.03-6015 LaRC

[Aviation Particle Composition Analyzer](#) [23]

- **AGNI Medical LLC**

10961 Burnt Mill Road, Unit 237

Jacksonville, FL 32256

Elena Vishnyakova (904) 351-8478

20-1-H12.01-6490 JSC

[C60-Serinol to Alleviate the Consequences of Cosmic Radiation](#) [24]

- **AI Biosciences, Inc.**

1902 Pinon Drive, Suite C

College Station, TX 77845

Season Wong (979) 450-3602

20-1-H8.01-5371 ARC

[A Compact and Automated Liquid-Handling Robot for Microgravity Uses](#) [25]

- **AI Biosciences, Inc.**

1902 Pinon Drive, Suite C

College Station, TX 77845

Season Wong (979) 450-3602

20-1-H8.01-6366 ARC

[A Compact and Automated Library Preparation Device for Nanopore Sequencing](#) [26]

- **Air Squared, Inc.**

510 Burbank Street

Broomfield, CO 80020

Bryce Shaffer (513) 238-9778

20-1-Z2.01-5731 JSC

[Oil-Free Spinning Scroll for Multiple-Stage Isopentane Heat Pump](#) [27]

- **AiRANACULUS**

9 Flint St.

Chelmsford, MA 1824

Apurva Mody (404) 819-0314

20-1-H9.07-6063 GRC

[Cross-Layer Wide-Band Cognitive Communications Architecture Enabled by Intelligent Direct Digital Transceiver \(CLAIRE\)](#) [28]

- **Aktiwave**

241 Ashley Drive

Rochester, NY 14620

Christopher Dorrer (585) 355-2706

20-1-S1.01-6606 LaRC

[Femtosecond-Laser-Based Welding for the Fabrication and Integration of Lidar Lasers](#) [29]

- **Allcomp, Inc.**

209 Puente Avenue

City of Industry, CA 91746

Michael Escalera (626) 369-1273

20-1-H5.02-5721 AFRC

[Low Cost Enhanced Conductivity C-C for Reusable Hot Structure and Leading Edge Applications](#) [30]

- **Alphacore, Inc.**

304 S Rockford Drive

Tempe, AZ 85281

Andrew Levy (503) 320-5466

20-1-S1.02-5269 JPL

[High Efficiency V-Band Power Amplifier for Small Satellite Applications](#) [31]

- **Alphacore, Inc.**

304 S Rockford Drive

Tempe, AZ 85281

Andrew Levy (503) 320-5466

20-1-S1.03-5272 JPL

[20 GSPS ADC For Spectrometer Backends In Microwave Radiometers](#) [32]

- **Alphacore, Inc.**

304 S Rockford Drive

Tempe, AZ 85281

Andrew Levy (503) 320-5466

20-1-S4.04-5367 JPL

[Radiation-Hardened Wide-Temperature Analog/Mixed-Signal Library in a 22nm FDSOI CMOS Process](#) [33]

- **Alphacore, Inc.**

304 S Rockford Drive

Tempe, AZ 85281

Dave Johnson (480) 494-5618

20-1-Z2.02-5369 JPL

[Radiation Tolerant Standard Cell Library in a 22nm FDSOI CMOS Process](#) [34]

- **Altius Space Machines, Inc.**

3001 Industrial Lane, Unit #5

Broomfield, CO 80020

Jonathan Goff (801) 362-2310

20-1-Z5.04-5732 ARC

[Magnetic Interfaces for IVR Logistics, Cargo Management and Outfitting](#) [35]



- **American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

20-1-Z8.10-6875 ARC

[Customizable InterSystem Wireless Data/Energy Transfer \(CUSTOS-WiT\) System](#) [36]

- **American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

20-1-S5.03-6750 GSFC

[Neuro-Cognitive Radar-Imagery Segmentation and Identification \(Neuro-RSI\)](#) [37]

- **American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

20-1-A2.02-5977 AFRC

[Drone Modular Smart Pallet \(DroneMSP\)](#) [38]

- **Amphionic, LLC**

875 North Lima Center Road

Dexter, MI 48130

Mark Hammig (734) 660-9412

20-1-S1.06-6213 GSFC

[Radiation-Resistant High-Resolution Particle Sensors from Composites of Semiconductor Nanoparticles and Aramid Nanofibers](#) [39]

- **Amphionic, LLC**

875 North Lima Center Road

Dexter, MI 48130

Mark Hammig (734) 660-9412

20-1-A1.04-5771 GRC

[Lightweight Ultra-Strong Flexible Power Cables from Metallic Nanoparticles and Aramid Nanofibers](#) [40]

- **ANAFLASH, Inc.**

3003 North 1st Street, Suite 221

San Jose, CA 95134

Seung-Hwan Song (612) 237-4629

20-1-H6.22-6021 ARC

[Radiation-Tolerant Neuromorphic Processor Featuring Nonvolatile Compute-in-Memory Architecture](#) [41]

- **Antara Teknik, LLC**

5233 Castlereigh Court

Granite Bay, CA 96746

Mehmet Adalier (916) 622-6960

20-1-Z2.02-5725 JPL

[Fault Tolerant Parallel Processing for HPSC](#) [42]

- **Antech Systems, Inc.**

510 Independence Parkway, Suite 100

Chesapeake, VA 23320

Vincent Martinez (757) 547-2828

20-1-Z4.05-5064 GSFC

[Improved Passive Phased Array Sensor System for Enhanced Health Monitoring of Large Complex Structures](#) [43]

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

2309 Pennsbury Court

Schaumburg, IL 60194-3884

Mukund Deshpande (630) 372-9650

20-1-S3.06-5609 GSFC

[Advanced Survivable Thermal Control Material Systems for Aggressive Planetary Dusty Environments](#) [44]

- **Applied Particle Technology, Inc.**

4340 Duncan Avenue, Suite 208

Saint Louis, MO 63110

Jiaxi Fang (650) 288-9061

20-1-H3.03-6356 GRC

[In-situ optical speciation and size distribution monitoring instrument for lunar dust management](#) [45]

- **Applied Tungstenite Corporation**

2480 Precision Drive

Minden, NV 89423

Eric Woods (775) 267-1244

20-1-S4.02-6335 GRC

[Ti, Cu, Al / WS2 Composite Dry Film Lubricant](#) [46]

- **Apri Instruments, LLC**

2440 West Ruthrauff Road, Suite 100

Tucson, AZ 85745

Robert Smythe (860) 398-5764

20-1-S2.04-4795 GSFC

[High-Speed, Mode-Hop Insensitive SCI Source for Low Coherence Wavefront Probe for Nanometer Level Free-Form Metrology](#) [47]

- **Aqwest, LLC**

8276 Eagle Road

Larkspur, CO 80118

John Vetrovec (303) 406-8545

20-1-S1.01-6764 LaRC

[Compact and Efficient High-Pulse Energy 2-Micron Lidar Transmitter](#) [48]

- **ArchieMD, Inc.**

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6420 Congress Avenue, Suite 2050

Boca Raton, FL 33487

Robert Levine (561) 988-0550

20-1-H12.05-5377 JSC

[Augmented Reality Medical Guidance for Space Operations](#) [49]

- **Architecture Technology Corporation**

9971 Valley View Road

Eden Prairie, MN 55344

Cindy Wagner (952) 829-5864

20-1-A3.04-4563 ARC

[Vertiport Traffic Automation System](#) [50]

- **Ascending Node Technologies, LLC**

2548 East 4th Street

Tucson, AZ 85716

Sanford Selznick (520) 314-5595

20-1-S5.04-5117 GSFC

[Advanced Science Modeling for Mission Planning & Analysis](#) [51]

- **ASRC Federal Astronautics, LLC**

289 Dunlop Boulevard, Building 300

Huntsville, AL 35824

Joseph Sims (256) 801-3128

20-1-Z3.05-6476 GSFC

[An Additively Manufactured, Leak-Proof NTO Swivel](#) [52]

- **Aster Labs, Inc.**

155 East Owasso Lane

Shoreview, MN 55126

Suneel Sheikh (651) 484-2084

20-1-H9.03-6399 GSFC

[Multi-Target Tracking using Random Finite Sets for Rendezvous and Proximity Operations with Non-Gaussian Uncertainties](#) [53]

- **Astrobotic Technology, Inc.**

912 Fort Duquesne Boulevard, 3rd Floor

Pittsburgh, PA 15222

Michael Provenzano (845) 399-0843

20-1-Z13.02-6350 KSC

[High Power Near-Field Wireless Transfer for Dust Intensive Applications](#) [54]

- **ATA Engineering, Inc.**

13290 Evening Creek Drive South

San Diego, CA 92128

Joshua Davis (858) 480-2028

20-1-Z7.05-4881 ARC

[Analytical Toolset for Loom-To-Weave Prediction of Woven Thermal Protection System Material Performance](#) [55]

- **ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Joe Isaacs (408) 736-2822

20-1-A3.04-5339 ARC

[Noise-Impacted UAM Flight Path Optimization](#) [56]

- **ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Joe Isaacs (408) 736-2822

20-1-A3.04-5341 LaRC

[Low-Altitude Wind Hazard Alerting and Rerouting Service](#) [57]

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

282 Century Place, Suite 1000

Louisville, CO 80027

Rachel Hauser (303) 993-8039

20-1-S1.12-5255 GSFC

[Ocean Stabilized Ionospheric Remote Imaging Sensor \(OSIRIS\)](#) [58]

- **ATSP Innovations**

60 Hazelwood Drive

Champaign, IL 61820

Jacob Meyer (217) 778-4400

20-1-A1.10-4992 GRC

[Ultra-High Temperature Elastomer Sealing Materials](#) [59]

- **Automation Sciences, LLC**

3406 Saint Pauls Place

Fairfax, VA 22031

Lance Sherry (703) 568-1899

20-1-A3.01-5281 ARC

[A Novel Time-Series Data Analytics Approach to Improve the Forecast of Irregular Operations for Airlines and Air Traffic Management](#) [60]

- **AvMet Applications**

1800 Alexander Bell Drive

Reston, VA 20191

Mark Klopfenstein (703) 453-9192

20-1-A3.02-5159 LaRC

[An Autonomous Severe Weather Trend Monitor for Improved System-Wide TFM Execution](#) [61]

- **Banpil Photonics, Inc.**

4800 Patrick Henry Drive, Suite 120

Santa Clara, CA 95054

Achyut Dutta (408) 282-3628

20-1-S1.05-6576 JPL

[Solar Blind UV APD based on III-N Material System for UV Spectroscopy and Imaging Applications](#) [62]

- **Banpil Photonics, Inc.**

4800 Patrick Henry Drive, Suite 120

Santa Clara, CA 95054

Achyut Dutta (408) 282-3628

20-1-S1.04-6401 JPL

[In-Pixel Neuromorphic Read-Out Integrated Circuit \(Neu-ROIC\) for Image Sensors for Earth Observation and Remote Sensing](#) [63]

- **Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

20-1-A3.03-5629 ARC

[gPC Methods for Validation of Future Air Traffic Management Concepts](#) [64]

- **Bascom Hunter Technologies, Inc.**

7117 Florida Boulevard, Suite 306

Baton Rouge, LA 70806

Andrew McCandless (225) 590-3553

20-1-Z2.02-5311 JPL

[HPSC-Compatible Neuromorphic Photonic Coprocessor](#) [65]

- **Bettergy Corporation**

8 John Walsh Boulevard, Suite 321

Peekskill, NY 10566

Lin-Feng Li (914) 290-6293

20-1-H3.01-5695 MSFC

[High Efficiency Hydrogen Separation Membrane Module for Space Oxygen Recovery Systems](#) [66]

- **Beyond Photonics, LLC**

6205 Lookout Road, Suite B

Boulder, CO 80301

Charley Hale (303) 475-2088

20-1-S1.04-5196 LaRC

[High Efficiency Wide Bandwidth Balanced Detector/Preamplifier at 2 Micron Wavelength](#) [67]

- **Beyond Photonics, LLC**

6205 Lookout Road, Suite B

Boulder, CO 80301

Charley Hale (303) 475-2088

20-1-S1.01-5597 LaRC

[Compact Power Amplifier for Hybrid Fiber/Bulk Wind Lidar Transmitters](#) [68]

- **Blazetech Corporation**

29 B Montvale Avenue

Woburn, MA 1801

N. Albert Moussa (781) 759-0700

20-1-H3.03-6094 GRC

[Lunar Dust Filter for Spacecraft Atmospheres](#) [69]

- **Blue Storm Associates**

8605 Cross View

Fairfax Station, VA 22039

Paul Lockhart (571) 244-1389

20-1-A1.09-6008 GRC

[The Icing, Wind and Lightning \(IWaL\) System](#) [70]

- **Blue Sun Enterprise, Inc.**



1942 Broadway Street, Suite 314

Boulder, CO 80302

Christopher Grasso (720) 394-8897

20-1-S5.05-6754 ARC

[Autonomous Coordinated Operations Response Network for Fault Detection, Isolation, and Response](#) [71]

- **Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

20-1-Z5.05-6062 JSC

[Modeling Rover Interactions with Lunar Regolith in Permanently Shadowed Regions](#) [72]

- **Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

20-1-Z7.04-6060 LaRC

[Modeling Dynamics of Plume-Induced Ejecta and Its Damage to Structures](#) [73]

- **Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

20-1-Z12.01-4604 GRC

[Solar Concentrator Oxygen Reactor with Continuous Heating and Extrusion of Regolith](#) [74]

- **Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

20-1-S2.03-4652 MSFC

[Programmable Phase ing Interferometer](#) [75]

- **Bridger Photonics, Inc.**

2310 University Way, Building, 4-4

Bozeman, MT 59715

Lisa Bleile (406) 585-2774

20-1-S1.01-5297 GSFC

[Autonomous DIAL-based Tropospheric Ozone Profiler](#) [76]

- **Brisk Computing, LLC**

1191 Red Ash Court

Centerville, OH 45458

Tarek Taha (937) 765-7742

20-1-H6.22-5558 GRC

[Resistive Deep Learning Neuromorphic Processors](#) [77]

- **Brisk Computing, LLC**

1191 Red Ash Court

Centerville, OH 45458

Tarek Taha (937) 765-7742

20-1-H9.07-6104 GRC

[Spiking Neuromorphic Software Defined Networking](#) [78]

- **Busek Company, Inc.**

11 Tech Circle

Natick, MA 1760

Judy Budny (508) 655-5565

20-1-Z8.09-6240 MSFC

[High Impulse Electric Upper Stage for Small Launch Vehicles](#) [79]

- **CASCADE Technologies, Inc.**

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2445 Faber Place, Suite 100

Palo Alto, CA 94303

Guillaume Bres (650) 521-0243

20-1-A1.07-6328 GRC

[A GPU-Accelerated Full-Wheel Multi-Stage Turbomachinery Flow Solver](#) [80]

- **CatalyzeH2O, LLC**

249 Alexandra Loop

Elkins, AR 72727

Shelby Foster (918) 924-1565

20-1-H3.02-4632 JPL

[Engineered Peptoid Sensor for Microbial Monitoring in Spacecraft Cabins](#) [81]

- **CesiumAstro, Inc.**

13412 Galleria Circle, Suite H-100

Austin, TX 78738

Chris Pappas III (512) 520-8116

20-1-H9.05-6746 GRC

[Commercial-Scale Arrays for Lunar Exploration: Communications and Sensing System](#) [82]

- **CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

20-1-A1.01-4809 LaRC

[An Intelligent Framework for Integrated State-Consistent AeroServoElastic Reduced Order Model Development and Control Synthesis](#) [83]

- **CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

20-1-S5.06-4808 GSFC

[Space Weather Forecasting Toolset to Support Operations](#) [84]

- **Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Neeraj Sinha (215) 766-1520

20-1-A1.05-4777 ARC

[A Software Toolset for Synthetic Turbulence Generation at Zonal Hybrid RANS/LES Interfaces](#) [85]

- **Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 8618

Barbara Agans (609) 538-0444

20-1-A1.01-5427 LaRC

[Variable Fidelity CFD-Based Aeroservoelastic Analysis Method for Supporting Design and Testing](#) [86]

- **Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 8618

Barbara Agans (609) 538-0444

20-1-A1.02-5961 GRC

[Comprehensive Acoustic Analysis for Urban Air Mobility Vehicles](#) [87]

- **Converter Source, LLC**

16922 South Canaan Road

Athens, OH 45701

James Huth (646) 306-4824

20-1-S3.02-5926 GRC

[Dynamic Controller for Modular Double-Acting Free-Piston Stirling Machines](#) [88]

- **CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 405-3363

20-1-S4.04-6424 GSFC

[Silicon Carbide Data Logger for a High Temperature Smart Sensor Platform](#) [89]

- **CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 405-3363

20-1-Z1.06-5768 JPL

[Radiation Tolerant High Voltage Silicon Carbide Switches](#) [90]

- **Cornerstone Research Group, Inc.**

510 Earl Boulevard

Miamisburg, OH 45342

Carri Miller (937) 320-1877

20-1-S3.03-5173 GRC

[Extreme Environment Battery](#) [91]

- **Cornerstone Research Group, Inc.**

510 Earl Boulevard

Miamisburg, OH 45342

Carri Miller (937) 320-1877

20-1-H5.02-4622 MSFC

[Oxidation Resistant C/C Composites](#) [92]

- **Cornerstone Research Group, Inc.**

510 Earl Boulevard

Miamisburg, OH 45342

Carri Miller (937) 320-1877

20-1-A1.06-5176 ARC

[Urban Air Mobility Passenger Ride Quality](#) [93]

- **Corvid Technologies**

153 Langtree Campus Drive

Mooresville, NC 28117

Tracy Williams (405) 410-6552

20-1-A1.01-6125 LaRC

[Decomposed Reduced-Order Modeling for Flutter and LCO Predictions in Highly Nonlinear Systems](#) [94]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 640-2487

20-1-Z2.01-5014 JPL

[Deployable, Lightweight, Freeze-Tolerant Radiator For Two Phase Thermal Management](#) [95]

- **Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 640-2487

20-1-S4.02-5011 JPL

[Compact, Robust Pump for Deep Subsurface Ice Penetration](#) [96]

- **CrossTrac Engineering, Inc.**

2730 Saint Giles Lane

Mountain View, CA 94040

John Hanson (408) 898-0376

20-1-Z8.02-6757 GSFC

[Optical Precision Navigation, Timing and Communications System for Small Spacecraft Swarms](#) [97]

- **Crown Consulting, Inc.**

1400 Key Boulevard, Suite 1100

Arlington, VA 22209

Thomas Davis (703) 203-7221

20-1-A1.06-4937 ARC

[Effects of Ride Quality on UAM Passenger Acceptance](#) [98]

- **CU Aerospace, LLC**

3001 Newmark Drive

Champaign, IL 61822

David Carroll (217) 239-1703

20-1-A1.09-5381 GRC

[Icing Hazard Mitigation for UAM Flight Safety](#) [99]

- **CU Aerospace, LLC**

3001 Newmark Drive

Champaign, IL 61822

David Carroll (217) 239-1703

20-1-S4.05-6431 JPL

[Plasma-Based Techniques for Spacecraft Contamination Control](#) [100]

- **CU Aerospace, LLC**

3001 Newmark Drive

Champaign, IL 61822

David Carroll (217) 239-1703

20-1-H9.03-5245 GSFC

[Suite of Lagrangian Coherent Structure \(SuiteLCS\) Software](#) [101]

- **D&P, LLC**

3409 North 42nd Place

Phoenix, AZ 85018

Lei Tang (480) 518-0981

20-1-A1.02-5030 GRC

[A Computational Tool for Fan Broadband Noise Prediction](#) [102]

- **Delta Zee Solutions**

4340 N. Paseo de los Rancheros

Tucson, AZ 85745

Mark Zepeda (520) 347-3476

20-1-S1.08-6396 ARC

[Return Glider for High Altitude Sampling Systems](#) [103]

- **Droplet Measurement Technologies, LLC**

2400 Trade Ctr Ave

Longmont, CO 80503

Kristie Stowers (720) 633-8814

20-1-S1.08-4689 LaRC

[Field-Deployable Beam Mapping Calibration System](#) [104]

- **Dynaflow, Inc.**

10621-J Iron Bridge Road

Jessup, MD 20794

Georges Chahine (301) 604-3688

20-1-Z10.01-4597 GRC

[DynaSwirl® Phase Separator for Cryogenic Liquid/Vapor Separation](#) [105]

- **Dynovas, Inc.**

6906 Sprouse Court

Springfield, VA 22153

Quinn McAllister (508) 717-7494

20-1-H5.01-5594 LaRC

[Motorless Array Deployment \(MAD\) Energy](#) [106]



- **E-beam, Inc.**

21070 Southwest Tile Flat Road

Beaverton, OR 97007

Bernard Vancil (503) 628-0703

20-1-Z10.04-4678 GRC

[Innovations in Hollow Cathode Construction Technology](#) [107]

- **Engenix, Inc.**

4217 9th Avenue Southwest, Suite 31

Huntsville, AL 35805

Joe Eversole (256) 529-3790

20-1-S3.04-6749 GSFC

[Expedient Formulator for Generative Evaluation \(XFORGE\)](#) [108]

- **Ensemble Government Services, LLC**

4005 Buchanan Street

Hyattsville, MD 20781

Michael Contreras (301) 842-7055

20-1-S5.06-5428 GSFC

[Kamodo Containerized Space Weather Models](#) [109]

- **ExoTerra Resource, LLC**

10499 Bradford Road, Suite 105

Littleton, CO 80127

Michael VanWoerkom (303) 565-6898

20-1-Z8.09-5899 GRC

[SEP Upper Stage for Small Launch Vehicles](#) [110]

- **Exploration Institute, LLC**

710 North Post Oak Road, #400

Houston, TX 77024

Armin Ellis (617) 599-0774

20-1-H12.05-5829 JSC

[Monitoring, Learning and Optimizing Crew Health and Performance](#) [111]

- **Faraday Technology, Inc.**

315 Huls Drive

Englewood, OH 45315

E. Jennings Taylor (937) 836-7749

20-1-S5.06-4720 GSFC

[Improved Satellite Robustness through Application of Erosion Resistant and High Emissivity Coatings](#) [112]

- **Faraday Technology, Inc.**

315 Huls Drive

Englewood, OH 45315

E. Jennings Taylor (937) 836-7749

20-1-Z12.01-4722 MSFC

[Ionic Liquid-Assisted Electrochemical Extraction of Oxygen from Lunar Regolith](#) [113]

- **Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

20-1-H9.01-6134 JPL

[High Power \(50W\), 1.5um WDM Fiber Laser Transmitter with Effective FWM Mitigation](#) [114]

- **Flight Works, Inc.**

17905 Sky Park Circle, Suite F

Irvine, CA 92614

Eric Besnard (949) 387-9552

20-1-Z8.09-5723 MSFC

[High Performance Pump-fed Lunar Transfer Stage for Small Launchers](#) [115]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Leif Johansson (805) 277-3031

20-1-H9.01-6159 JPL

[Miniaturized Free Space Optical Communication Transceivers for CubeSats](#) [116]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

20-1-S1.01-6160 LaRC

[High-Reliability Space-Qualified LIDAR Source Packages](#) [117]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

20-1-S1.10-6185 GSFC

[High-Power Tunable 852nm Laser Source and PICs for Atom Interferometry Based Gravimetry](#) [118]

- **Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Daniel Renner (805) 729-0514

20-1-S1.01-6161 GSFC

[Watt-Class Diffraction-Limited Narrow Linewidth 8xx nm Diode Lasers](#) [119]

- **G-Space, Inc**

1266 Parkington Avenue

Sunnyvale, DE 94087

Ioana Cozmuta (408) 391-5912

20-1-H8.01-4784 ARC

[ATOM - An AI Environment for New Microgravity Materials Development](#) [120]

- **GenNEXT Materials and Technologies, LLC**

13315 Goldpan Court

Reno, NV 89511

Prasad Rao Kalvala (415) 722-8105

20-1-Z10.04-5054 GRC

[Dissimilar Metal Welding of Refractory Metals](#) [121]

- **Giner, Inc.**

89 Rumford Avenue

Newton, MA 2466

Cortney Mittelsteadt (781) 529-0529

20-1-S3.03-6816 GRC

[Advanced High Energy Density Lithium-Sulfur Battery for Low Temperature Operation](#) [122]

- **Global Technology Connection, Inc.**

2839 Paces Ferry Road, Suite 1160

Atlanta, GA 30339

Ash Thakker (770) 803-3001

20-1-A3.03-5041 ARC

[TRACAIR: TRAjectory Course Anomaly Identifier](#) [123]

- **Gloyer-Taylor Laboratories, LLC**

112 Mitchell Boulevard

Tullahoma, TN 37388

Paul Gloyer (931) 455-7333

20-1-H10.01-4866 SSC

[Composite Facility Components](#) [124]

- **Gloyer-Taylor Laboratories, LLC**

112 Mitchell Boulevard

Tullahoma, TN 37388

Paul Gloyer (931) 455-7333

20-1-S1.09-4863 GSFC

[Ultralight Dewar](#) [125]

- **Goodman Technologies, LLC**

9551 Giddings Avenue Northeast

Albuquerque, NM 87109

William Goodman (505) 400-8169

20-1-Z8.08-6253 ARC

[Additively Manufactured, Ultra-Stable RoboSiC Proximity Imaging CubeSat Telescope](#) [126]

- **Great Lakes Crystal Technologies**

4942 Dawn Avenue, Suite 104

East Lansing, MI 48823

Keith Evans (919) 280-6331

20-1-Z1.06-6758 GSFC

[Radiation Tolerant High-Voltage, High-Power Diamond Electronics](#) [127]

- **GreenSight Agronomics, Inc.**

12 Channel Street, Suite 605

Boston, MA 2210

Joel Pedlikin (617) 633-4919

20-1-A2.02-5722 LaRC

[PreSound: UAV Diagnostic System Enabled by Acoustics and Vibration-Based Machine Learning](#) [128]

- **Handix Scientific, LLC**

5485 Conestoga Court, Suite 104B

Boulder, CO 80301

Gavin McMeeking (970) 310-5186

20-1-A1.03-4754 LaRC

[A Counter for Ice Nucleated in Contrails Homogeneously and Heterogeneously \(CINCHH\)](#) [129]

- **Hedgefog Research, Inc.**

1891 North Gaffey Street, Suite 224

San Pedro, CA 90731

Alex Kolessov (310) 935-2206

20-1-Z13.01-6503 KSC

[Bendable Electrodynamic Dust Shields](#) [130]

- **HiFunda, LLC**

421 Wakara Way, Suite 210

Salt Lake City, UT 84108

Balakrishnan Nair (801) 897-1221

20-1-Z10.04-5651 GRC

[Castable Inorganic Composite Potting Material for High-Temperature Electromagnets](#) [131]

- **HighRI Optics**

5401 Broadway Terrace #304

Oakland, CA 94618

Keiko Munechika (360) 402-4112

20-1-S2.03-5102 MSFC

[Beyond Resolution Reconstruction of Surface Metrology Data](#) [132]

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

820 Heinz Avenue

Berkeley, CA 94710

Hong Jiao (408) 464-3873

20-1-S4.05-6362 JPL

[Rapid Microbial Detection and Monitoring Technology for Planetary Protection](#) [133]

- **Howe Industries, LLC**

1435 East University Drive Street C-108

Tempe, AZ 85281

Troy Howe (480) 250-6820

20-1-Z1.03-5485 GRC

[ATEG Kilopower](#) [134]

- **Hyper Tech Research, Inc.**

539 Industrial Mile Road

Columbus, OH 43228

Michael Tomsic (614) 481-8050

20-1-A1.04-6812 GRC

[High Power Density Induction Motors and Drives for Aircraft Propulsion](#) [135]

- **IERUS Technologies, Inc.**

2904 Westcorp Boulevard, Suite 210

Huntsville, AL 35805

Billy Todd (256) 319-2026

20-1-Z3.03-5627 MSFC

[Additive Friction Stir Deposition for In-Space Manufacturing](#) [136]

- **Impossible Sensing, LLC**

3407 South Jefferson Avenue

St. Louis, MO 63118

Pablo Sobron (314) 695-6993

20-1-S1.07-6626 ARC

[PERISCOPE - Probe for Exploring Regolith and Ice by Subsurface Classification of Organics, PAHs, and Elements](#) [137]

- **Impossible Sensing, LLC**

3407 South Jefferson Avenue

St. Louis, MO 63118

Pablo Sobron (314) 695-6993

20-1-S1.11-6625 JPL

[PWLSR - Pulsed Waveguide Latency Spectral Receptor](#) [138]

- **Infibertech, Corp.**

8 Indian Lane

Sharon, MA 2067

Ram Yahalom (781) 806-5625

20-1-S3.04-5573 MSFC

[Integrated Solid-State Optical IMU](#) [139]

- **Innoflight, Inc.**

9985 Pacific Heights Boulevard, Suite 250

San Diego, CA 92121

Jeffrey Janicik (858) 638-1580

20-1-Z8.10-5273 GRC

[Beyond Connectivity: Intelligent Object-Oriented Wireless Management](#) [140]

- **InnoSys, Inc.**

2900 South Main Street

Salt Lake City, UT 84115

Jennifer Hwu (801) 975-7399

20-1-S4.04-6407 GRC

[Venus Imaging Camera](#) [141]

- **Innovative Dynamics, Inc.**

2560 North Triphammer Road

Ithaca, NY 14850

Patricia Stein (607) 257-0533

20-1-A1.09-5690 GRC

[Low Power Rechargeable Anti-Icing System for Urban Air Mobility Vehicles](#) [142]



- **Innovative Imaging and Research Corporation**

Building 1103, Suite 140C

Stennis Space Center, MS 39529

Mary Pagnutti (228) 688-2452

20-1-S1.08-4948 ARC

[Angstrom: An Imaging Star Photometer](#) [143]

- **Innovative Scientific Solutions, Inc.**

7610 McEwen Road

Dayton, OH 45459

Larry Goss (937) 429-4980

20-1-A1.08-4810 LaRC

[Global Skin Friction Sensor for Cryogenic Wind Tunnels](#) [144]

- **Integrated Deposition Solutions**

5901 Indian School Road NE

Albuquerque, NM 87110

David Keicher (505) 463-0414

20-1-S1.07-4616 JPL

[Advance Aerosol Separator for Planetary Exploration](#) [145]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

20-1-Z2.02-5909 JPL

[Deep Learning Processing Subsystem \(DLPS\): A HPSC-Compatible Deep Learning Coprocessor](#) [146]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

20-1-A3.02-5310 ARC

[Gaining Actionable Insights Through Neurocomputational Trajectory Segmentation and Clustering](#) [147]

- **Intellisense Systems, Inc.**

21041 West Western Avenue

Torrance, CA 90501

Frank Willis (310) 320-1827

20-1-Z4.04-5436 LaRC

[Real-Time Optical Defect Detection, Identification and Correction Technology](#) [148]

- **InterCAX, LLC**

2402 Lively Trail

Atlanta, GA 30345

Dirk Zwemer (404) 592-6897

20-1-H6.04-5952 ARC

[Digital Pipelines – A framework for Continuous Integration, Verification, and Delivery of Complex Systems](#) [149]

- **Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Deontae Lafayette (407) 697-3697

20-1-A1.08-5350 LaRC

[Fiber-Optic Vector Skin Friction Systems for Cryogenic Shear Stress Measurements](#) [150]

- **Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Deontae Lafayette (407) 697-3697

20-1-A1.02-4999 GRC

[High-Temperature, Flat-Pack Optical Pressure Sensors for Combustion Noise Measurement](#) [151]

- **Iris Technology Corporation**

PO Box 15115

Irvine, CA 92623

Marguerite Slater (949) 975-8410

20-1-S1.09-6184 JPL

[Scalable, High Power Cryocooler Controller](#) [152]

- **Jackson Bond Enterprises, LLC**

39 Industrial Park Road

Dover, NH 3820

Bruce Bond (603) 742-2350

20-1-Z7.03-5002 LaRC

[Advancements in HIAD Performance](#) [153]

- **Jackson Bond Enterprises, LLC**

39 Industrial Park Road

Dover, NH 3820

Justin Bond (603) 833-0805

20-1-A1.10-5413 GRC

[Improved Abrasion Resistance of High Temperature Seals](#) [154]

- **Jeeva Wireless Incorporated**

4000 Mason Road, Suite 300

Seattle, WA 98195

Aaron Parks (206) 478-3572

20-1-A2.01-5620 AFRC

[Low-Power Backscatter Networking With Device Synchronization and Timestamping](#) [155]

- **KEF Robotics**

6534 Hamilton Avenue

Pittsburgh, PA 15206

Fraser Kitchell (206) 470-9055

20-1-A2.02-5528 AFRC

[Multi-view Navigation and Hazard Avoidance for Autonomous Aircraft](#) [156]

- **Keystone Synergistic Enterprises, LLC**

664 Northwest Enterprise Drive, Suite 118

Port Saint Lucie, FL 34986

Bryant Walker (772) 341-2700

20-1-Z4.04-5894 LaRC

[In-Situ Dimensional and Macro Surface Defect Mitigation in Wire-Fed Additive manufacturing Processes](#) [157]

- **KMB Telematics, Inc.**

1001 19th Street North, Suite 1200

Arlington, VA 22209

Bryan Cattle (703) 783-3377

20-1-A2.02-6569 AFRC

[Low SWAP-C Imaging Radar for Small Air Vehicle Sense and Avoid](#) [158]

- **L'Garde, Inc.**

15181 Woodlawn Avenue

Tustin, CA 92780

Larry Beebe (714) 259-0771

20-1-H5.01-6788 LaRC

[Lightweight Illuminating Towers](#) [159]

- **Leiden Measurement Technology, LLC**

1230 Mountain View Alviso Road, Suite A

Sunnyvale, CA 94089

Nathan Bramall (510) 301-8980

20-1-S1.11-6468 ARC

[Flat-field Automated Ultraviolet Exploration Microscope](#) [160]

- **Lewiz Communications, Inc.**

738 Charcot Avenue

San Jose, CA 95131

Mary Le (408) 836-9279

20-1-S3.08-6834 MSFC

[Fault Tolerant RISC-V CPU Cores and Tool](#) [161]

- **LM Group Holdings, Inc.**

26497 Rancho Parkway South

Lake Forest, CA 92630

Evelina Vogli (832) 463-4400

20-1-S4.02-5932 JPL

[Amorphous Based Drill Bits for Icy Surface Sampling](#) [162]

- **LoadPath**

2309 Renard Place Southeast, Suite 101

Albuquerque, NM 87108

Gregory Sanford (866) 411-3131

20-1-H5.01-5432 LaRC

[Origami-Based Extendable Lunar Innovative Solar Column \(OBELISC\)](#) [163]

- **LoadPath**

2309 Renard Place Southeast, Suite 101

Albuquerque, NM 87108

Adam Biskner (505) 331-5331

20-1-S5.04-6151 GSFC

[Collaborative and Rapid Engineering System-modeling Toolkit \(CREST\)](#) [164]

- **Logisic Devices, Inc.**

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1968 Serge Avenue

San Jose, CA 95130

Vipindas Pala (518) 596-9083

20-1-Z1.06-5841 GRC

[Radiation Tolerant High-Voltage Silicon Carbide Devices](#) [165]

- **Lowell Digisonde International, LLC**

175 Cabot Street, Suite 200

Lowell, MA 1854

Ryan Hamel (978) 735-4752

20-1-S5.06-4875 GSFC

[A Cubesat Based System for Topside Ionospheric Sounding](#) [166]

- **Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

Maggie Hudson (434) 483-4254

20-1-Z4.05-5192 LaRC

[Non-Destructive Evaluation Tool Position and Damage Visualization](#) [167]

- **Lunar Resources, Inc.**

5000 Gulf Freeway, Exploration Research Park, Building 4

Houston, TX 77023

Elliot Carol (646) 455-8382

20-1-Z3.03-4852 GSFC

[In-Space Vacuum Deposition Joining](#) [168]

- **Lunar Resources, Inc.**

5000 Gulf Freeway, Exploration Research Park, Building 4

Houston, TX 77023

Elliot Carol (646) 455-8382

20-1-Z12.01-4634 KSC

[Molten Regolith Electrolysis: The Extraction of Oxygen from Lunar Regolith](#) [169]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

20-1-Z8.09-6257 MSFC

[Moon Express - Green Propellant Lunar Transfer Stage](#) [170]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

20-1-S3.03-5527 GRC

[High Temperature Rechargeable Li/Se Batteries for Venus Missions](#) [171]

- **M4 Engineering, Inc.**

4020 Long Beach Boulevard

Long Beach, CA 90807

Kevin Roughen (562) 981-7797

20-1-A1.01-5804 LaRC

[Aeroelasticity and Aeroservoelastic Control](#) [172]

- **M4 Engineering, Inc.**

4020 Long Beach Boulevard

Long Beach, CA 90807

Kevin Roughen (562) 981-7797

20-1-H10.01-5808 SSC

[Advanced Propulsion Systems Ground Test Technology](#) [173]

- **Machina Labs, Inc.**

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1430 Colby Avenue, Unit 302

Los Angeles, CA 90025

Babak Raeisinia (770) 769-0114

20-1-Z3.04-6074 MSFC

[In-Space Assembly and Manufacturing Using Synchronized Robotics](#) [174]

- **Magma Space LLC**

33 North Street Northeast, Apartment 432

Washington, DC 20002

Alessandro Stabile (202) 843-7850

20-1-S3.04-5121 GSFC

[Semi-Active Magnetically Levitated Reaction Wheel](#) [175]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

20-1-H4.05-6156 JSC

[Single-Piece Leak Mitigating Water Loop Connector](#) [176]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

20-1-Z2.01-6840 GRC

[Modular Membrane Controlled Three-phase Deployable Radiator \(MMC-TDR\)](#) [177]

- **Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550



20-1-H3.03-5980 GRC

[Cyclone Precipitator Sub-Micron Particulate Separator](#) [178]

- **Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

20-1-Z5.04-4921 ARC

[Environmental Monitoring Microsensor Array \(EMMA\) for Free Flying Robots](#) [179]

- **Mantis Composites**

3986 Short Street, Suite 100

San Luis Obispo, CA 93401

David Zilar (509) 737-7036

20-1-S2.02-6618 JPL

[Thermally Stable Carbon Fiber 3D Printed Composite Tube Connectors for Low CTE Satellite Structures](#) [180]

- **Martian Sky Industries, LLC**

2619 Saybrook Road

University Heights, OH 44118

Douglas Marsh (440) 725-7747

20-1-H8.01-6287 MSFC

[Vacuum Impregnation Process for Extraterrestrial Realization \(VIPER\) for International Space Station Commercial Development](#) [181]

- **Metron, Inc.**

1818 Library Street

Reston, VA 20190

Seth Blackwell (703) 787-8700

20-1-A3.01-5425 ARC

[Early Prediction of Emergent Airspace Inefficiencies](#) [182]

- **Mgenuity Corporation**

97 Leedsville Dr

Lincroft, NJ 7738

Attila Medl (732) 357-7977

20-1-H12.05-5362 JSC

[Mixed-Reality Holographic Training System to Enable High-Value Surgical and Complex Medical Procedures by Astronauts](#) [183]

- **Michigan Aerospace Corporation**

1777 Highland Drive, Suite B

Ann Arbor, MI 48108

John Dodds (734) 975-8777

20-1-S5.06-4663 GSFC

[Miniaturized Nightglow Interferometer for Monitoring Emissions from a CubeSat](#) [184]

- **Micro Cooling Concepts, Inc.**

7522 Slater Avenue, #122

Huntington Beach, CA 92647

David Underwood (714) 227-9025

20-1-A1.07-6115 GRC

[Lightweight Recuperator for Electrified Aircraft Propulsion](#) [185]

- **Micro Harmonics Corporation**

20 South Roanoke Street, Suite 202

Fincastle, VA 24090

Diane Kees (540) 473-9983

20-1-S1.02-6080 JPL

[Broadband Millimeter-Wave Hybrid Circulators for NASA Missions](#) [186]

- **MicroLink Devices, Inc.**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 588-3001

20-1-S3.01-5487 GRC

[Textured Solar Array](#) [187]

- **Modularity Space**

1511 Aviation Center Parkway

Daytona Beach, FL 32114

Scott Weintraub (386) 987-8847

20-1-Z8.10-6501 ARC

[An Intelligent Wireless Instrumentation Network \(I-WIN\) for Space Applications](#) [188]

- **Mohawk Innovative Technology, Inc.**

1037 Watervliet-Shaker Road

Albany, NY 12205

James Walton (518) 862-4290

20-1-Z1.03-5897 GRC

[High Speed Closed Brayton Cycle Turboalternator](#) [189]

- **Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Michael Blaylock (703) 505-3022

20-1-A3.04-4772 ARC

[Forecast and Real-time Status of Airspace Closures for Traditional and New Entrant Users](#) [190]

- **Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Michael Blaylock (703) 505-3022

20-1-A2.02-4776 GRC

[Small UAS Collision Avoidance System](#) [191]

- **Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Michael Blaylock (703) 505-3022

20-1-A3.01-4986 LaRC

[Cloud FMS](#) [192]

- **Motiv Space Systems, Inc.**

350 North Halstead Street

Pasadena, CA 91107

Tom McCarthy (626) 389-5783

20-1-S4.02-4708 JPL

[Lunar Automatic Tool Changer and Holder \(LATCH\)](#) [193]

- **Motiv Space Systems, Inc.**

350 North Halstead Street

Pasadena, CA 91107

Tom McCarthy (626) 389-5783

20-1-Z3.04-5097 LaRC

[Kinematic Assembly in Space Mount \(KASM\)](#) [194]

- **N&R Engineering**

6659 Pearl Road, #201

Parma Heights, OH 44130

Vinod Nagpal (440) 845-7020

20-1-A1.07-5216 GRC

[Approaches to Facilitate Using HPT SiC/SiC CMC Vanes and Rotor Blades](#) [195]

- **Nahlia Inc**

95 1st Street, Suite 240

Los Altos, CA 94022

Jayant Menon (310) 936-6237

20-1-H12.05-4929 JSC

[Autonomous Medical Response Agent \(AMRA\) for Prolonged Field Care in Space](#) [196]

- **Nanomatronix, LLC**

700 Research Center Boulevard

Fayetteville, AR 72701

Matthew Leftwich (479) 215-9438

20-1-H6.22-6259 ARC

[Efficient Neuromorphic Processor Design for Autonomous Space Operation](#) [197]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

20-1-A1.08-4967 LaRC

[Conformal Nanomembrane based Sensor Skins for Cryogenic Shear Measurements](#) [198]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

20-1-H4.05-5107 JSC

[Next-Generation Self-Healing Lubricants for Liquid Cooling and Ventilation Garment Connectors](#) [199]

- **Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

20-1-A2.01-4968 AFRC

[Self-Diagnosing Nanomembrane Based Sensors for Flight Testing Applications](#) [200]

- **Nanovox, LLC**

15985 Northwest Schendel Avenue, Suite 201

Beaverton, OR 97006

Debra Ozuna (503) 260-6869

20-1-S2.03-6191 GSFC

[Infrared Freeform Gradient Index Optics](#) [201]

- **NearSpace Launch, Inc.**

8702 East 825 South

Upland, IN 46989

Matthew Voss (765) 618-3814

20-1-S5.06-5636 GSFC

[Space-Weather CubeSat Array for 24/7 Prompt Global Coverage Experiment \(SWAP-E\)](#) [202]

- **New Integration Photonics**

5301 Dorset Avenue

Chevy Chase, MD 20815

Mario Dagenais (301) 405-3684

20-1-S2.05-6522 JPL

[Cascaded Arrayed Waveguide Gratings for High Resolution Integrated Photonic Spectrographs](#) [203]

- **Nexolve Holding Company, LLC**

290 Dunlop Boulevard, Southwest, Suite 200

Huntsville, AL 35824

Paul DuPre (256) 836-7785

20-1-Z8.06-6392 MSFC

[Bi-Fold Fan DragSail with Surface Area Modulation Capability](#) [204]

- **Nexus Photonics, LLC**

2320 De La Vina Street, #12

Santa Barbara, CA 93105

Tin Komljenovic (805) 895-4733

20-1-S1.10-4614 JPL

[Atomically Referenced Visible Spectroscopy-Grade PIC Lasers Operating at 689 nm](#) [205]

- **Nirvana Technologies, Inc**

2701 Lance Drive

Dayton, OH 45409

August Rolling (719) 659-6722

20-1-S5.05-6795 MSFC

[Integration of Data and Physics Based Models for Fault Management](#) [206]

- **Numem Inc**

440 N Wolfe Road

Sunnyvale, CA 94085

Nilesh Gharia (408) 836-8795

20-1-H6.22-5109 ARC

[DNN Radiation Hardened Co-processor companion chip to NASA's upcoming High-Performance Spaceflight Computing processor](#) [207]

- **NYRAD, Inc**

274 East Eau Gallie Boulevard, Suite 140

Indian Harbour Beach , FL 32938

Donald Platt (321) 243-4633

20-1-Z8.02-6848 GRC

[Visible Light Communications for Distributed Space Systems](#) [208]

- **Obsidian Sensors**

5754 Pacific Center Boulevard

San Diego, CA 92121

John Hong (858) 334-9615

20-1-S2.01-5933 JPL

[Active Matrix Programmable Mirror](#) [209]

- **Octave Photonics, LLC**

2735 Bristlecone Court

Lafayette, CO 80026

Zachary Newman (513) 315-3618

20-1-S2.05-5110 JPL

[Supercontinuum Waveguides for Extreme Radial-Velocity Instrumentation](#) [210]

- **Odyssey Space Research, LLC**

1120 NASA Parkway, Suite 505

Houston, TX 77058

Jana Rebmann (281) 488-7953

20-1-H9.03-5157 JSC

[Autonomous Optical Navigation and Guidance for Operations in NRHO](#) [211]

- **Off Planet Research, LLC**

5700 Lacey Boulevard Southeast

Lacey, WA 98503

Vincent Roux (253) 391-0293

20-1-Z13.02-6369 KSC

[Self-Cleaning Dust Proof Fluid and Gas Connector](#) [212]

- **Okean Solutions, Inc**

1211 East Denny Way, 32A

Seattle, WA 98122

Ksenia Kolcio (206) 383-0181

20-1-H10.02-5895 KSC

[Model-based Fault Diagnosis for Ground and Propulsion Systems](#) [213]



- **Omitron, Inc.**

7051 Muirkirk Meadows Drive, Suite A

Beltsville, MD 20705

Bryan Larsen (301) 474-1700

20-1-H9.03-5963 GSFC

[Maneuver Characteristics of Autonomous Non-Cooperative Spacecraft](#) [214]

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

4221 Rolling Gate Road

Fort Collins, CO 80526

Thomas Murphey (505) 250-3006

20-1-H5.01-4742 LaRC

[Rollable-Retractable Mast Array \(R-ROMA\)](#) [215]

- **Optimax Systems, Inc.**

6367 Dean Parkway

Ontario, NY 14519

Thomas Starin (585) 265-1020

20-1-S2.03-5889 GSFC

[Force Responsive Manufacturing for Light-Weighted Optics](#) [216]

- **OptiPro Systems, LLC**

6368 Dean Parkway

Ontario, NY 14519

Matt Carlson (585) 265-0160

20-1-S2.03-4788 MSFC

[Laser Machining](#) [217]

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

19805 Hamilton Avenue

Torrance, CA 90502

Joel Gat (310) 752-0520

20-1-S3.04-6698 JPL

[Absolute Navigation for Ground Vehicles for Planetary Exploration](#) [218]

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

19805 Hamilton Avenue

Torrance, CA 90502

Chris Holmes-Parker (310) 756-0520

20-1-S1.08-5488 GSFC

[AquaFloat: A Near-Surface Hyperspectral Radiometer System for Improved Ocean Color Measurements within the UV-VIS-NIR Spectral Region](#) [219]

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

19805 Hamilton Avenue

Torrance, CA 90502

Joel Gat (310) 752-0520

20-1-S5.03-6415 ARC

[Deep Learning Based Real-Time Engine Prognostics and Health Management \(DL-RTEPHM\)](#) [220]

- **Optowares, Inc.**

15 Presidential Way

Woburn, MA 1801

Wayne Weimer (781) 427-7106

20-1-H3.02-5375 JPL

[Autonomous, In-Situ Detection and Speciation of Biofilms Within Extended Spaceflight Water Systems](#) [221]

- **Orb Xyz**

1700 4th Street, QB3 Room 219A

San Francisco, CA 94158

Lorenzo Falzarano (415) 620-1620

20-1-H3.02-5370 GRC

[Real-time Non-destructive Microbial Water Monitoring for Spacecraft Cabins](#) [222]

- **Ozark Integrated Circuits, Inc.**

700 West Research Center Boulevard

Fayetteville, AR 72701

Anthony Francis (479) 575-1600

20-1-S4.04-5263 GRC

[High Fidelity Analog Integration Techniques for Venus Surface Data Acquisition](#) [223]

- **Parabilis Space Technologies, Inc.**

1195 Linda Vista Drive, Suite F

San Marcos, CA 92078

David Brynes (619) 750-4484

20-1-Z8.09-5712 AFRC

[High-Density, Non-Toxic, Low-Cost, Hybrid Stage for Lunar Injection](#) [224]

- **Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Carole Leon (520) 382-4813

20-1-Z12.01-5262 JSC

[ISRU Collector of Ice in a Cold Lunar Environment \(ICICLE\)](#) [225]

- **Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Carole Leon (520) 382-4813

20-1-S3.05-5291 JPL

[Variable Altitude Venus Platform](#) [226]

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

3000 Kent Avenue, Suite B1-100

West Lafayette, IN 47906

Teresa Arens (317) 410-1865

20-1-Z1.05-5960 GRC

[Lunar & Planetary Surface Power Management & Distribution](#) [227]

- **Pegasense, LLC**

1511 East State Road 434, Suite 2001

Winter Springs, FL 32708

Svetlana Malocha (407) 766-5783

20-1-Z4.05-5016 LaRC

[NDE and SHM Wireless Sensor System](#) [228]

- **Pepin Associates**

15 Log Home Rd

Greenville, ME 4441

John Pepin (207) 695-3434

20-1-H5.02-4846 MSFC

[Formable Preform for Complex Shaped Hot Structures](#) [229]

- **PH Matter, LLC**

6655 Singletree Drive

Columbus, OH 43229

Christopher Holt (614) 783-2396

20-1-H3.01-4569 MSFC

[Automated Carbon Formation Reactor](#) [230]

- **Phoenix Integration**

1715 Pratt Drive, Suite 2000

Blacksburg, VA 24060

Robin Campbell (540) 961-7215

20-1-H6.04-5764 ARC

[ModelCenter MBSE for OpenMBEE: MBSE Analysis integration for Distributed Development](#) [231]

- **Photon Systems, Inc.**

1512 Industrial Park Street

Covina, CA 91722

William Hug (626) 967-6431

20-1-H3.02-6731 JPL

[MAIA: Microbial Assessment w/In-Situ Autofluorescence](#) [232]

- **Photonics Automation Specialties LLC**

1402 East Manlove Sreet #43

Tucson, AZ 85719

Gerard Knight-Rubino (520) 286-6545

20-1-S1.08-6766 GSFC

[Hyperspectral VSF and Polarization Instrument](#) [233]

- **Photonwares Corporation**

15 Presidential Way

Woburn, MA 1801

Jim Zhao (781) 465-2600

20-1-H9.01-6342 JPL

[High Power and High Reliability Fiber Optical Routing Switch](#) [234]

- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 1810

B. David Green (978) 689-0003

20-1-S5.03-5306 GSFC

[Deep Neural Network Algorithms for Upsampling of Surface Images](#) [235]

- **Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 1810

B. David Green (978) 689-0003

20-1-H10.01-5308 SSC

[Adaptive Venturi for Surge Pressure Mitigation](#) [236]

- **PickNik Inc**

1942 Broadway, Suite 222

Boulder, CO 80302

Dave Coleman (720) 513-2221

20-1-Z5.04-5434 ARC

[Advanced planning capabilities for humanoids in microgravity environments](#) [237]

- **Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 984-9346

20-1-S3.05-4544 GSFC

[Gas Replacement System \(GRS\)](#) [238]

- **Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 984-9346

20-1-Z8.06-6249 MSFC

[Magsails for Spacecraft Deorbit](#) [239]

- **Pioneer Astronautics**

11111 West 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 984-9346

20-1-Z10.01-4751 GRC

[Magnetic Phase Separator](#) [240]

- **Polarix Corporation**

7960 Silverton Avenue, Suite 119

San Diego, CA 92126

Farida Lim (202) 812-0088

20-1-A1.04-5492 GRC

[Distributed Inverter Array Turn-Less Motor](#) [241]

- **Polaronyx, Inc.**

2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

20-1-S2.02-5072 JPL

[Precision Femtosecond Laser Additive Manufacturing and Athermal Welding](#) [242]

- **Polaronyx, Inc.**

2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

20-1-Z10.04-5115 GRC

[Additively Manufactured Hall-Effect Thruster Discharge Channels](#) [243]

- **Polaronyx, Inc.**

2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

20-1-Z1.03-5119 GRC

[Light Weight Radiation Shielding Components](#) [244]

- **PolyK Technologies, LLC**

2124 Old Gatesburg Road

State College, PA 16803

Shihai Zhang (518) 605-6897

20-1-Z13.01-6344 LaRC

[Integrated Approach for Space Active and Passive Dust Mitigation Enabled by Electroactive Polymer Technology](#) [245]

- **Precision Combustion, Inc.**

410 Sackett Point Road

North Haven, CT 6473

Anthony Anderson (203) 287-3700

20-1-H4.01-5200 JSC

[Vacuum-Regenerable Trace Contaminant Control for Exploration Portable Life Support System](#) [246]

- **Predictive Science, Inc.**

9990 Mesa Rim Road, Suite 170

San Diego, CA 92121

Meaghan Marsh (858) 450-6494

20-1-S5.06-6130 GSFC

[Time-Dependent Connectivity Mapping of the Solar Magnetic Field](#) [247]

- **Prime Photonics, LC**

1116 South Main Street

Blacksburg, VA 24060

Steve Poland (540) 315-3649

20-1-A1.08-4889 LaRC

[Non-Intrusive Thermo-Structural Characterization of Water-Ice Clouds](#) [248]

- **Princeton Satellite Systems**

6 Market Street, Suite 926

Plainsboro, NJ 8536

Michael Paluszek (609) 275-9606



20-1-H9.03-4830 MSFC

[Neural Space Navigator](#) [249]

- **Princeton Satellite Systems**

6 Market Street, Suite 926

Plainsboro, NJ 8536

Michael Paluszek (609) 275-9606

20-1-A1.04-6393 GRC

[Multi-Megawatt Superconducting Motor for Electric Aircraft](#) [250]

- **Protoinnovations, LLC**

5453 Albemarle Avenue

Pittsburgh, PA 15217

Dimitrios Apostolopoulos (412) 916-8807

20-1-Z5.05-6066 ARC

[Dynamically Reconfigurable Software and Mobility Architecture for Autonomous Planetary Rovers](#) [251]

- **Psionic LLC**

1100 Exploration Way

Hampton, VA 23666

Stephen Sandford (757) 604-6263

20-1-Z7.01-6620 LaRC

[Chip-scale Waveform Modulation System for Navigation Doppler Lidar](#) [252]

- **QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 3063

Mani Sundaram (603) 821-3092

20-1-S1.04-6866 GSFC

[INAS Detectors for Infrared Astronomy](#) [253]

- **QorTek, Inc.**

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5933 North Route 220 Highway

Linden, PA 17744

Zachary Stimely (570) 322-2700

20-1-Z1.03-5319 GRC

[Kilowatt Class Fission Energy Conversion](#) [254]

- **QorTek, Inc.**

5933 North Route 220 Highway

Linden, PA 17744

Zachary Stimely (570) 322-2700

20-1-S3.08-5323 GSFC

[Rad-Hard ASIC-Controlled GaN-Based Multichannel POL Converter](#) [255]

- **QorTek, Inc.**

5933 North Route 220 Highway

Linden, PA 17744

Zachary Stimely (570) 322-2700

20-1-Z1.05-5333 GRC

[Flying Capacitor Multilevel Converters for Space Power Management](#) [256]

- **Quinstar Technology, Inc.**

24085 Garnier Street

Torrance, CA 90505

Tracy Lee (310) 320-1111

20-1-S1.02-5000 GSFC

[V-band Solid-State Power Amplifier \(65-71 GHz\)](#) [257]

- **Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 2472

Martin Waters (617) 668-6851

20-1-S1.07-5444 GRC

[Radiation Hard Scintillation Materials for Planetary Science and Astrophysics](#) [258]

- **Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 2472

Martin Waters (617) 668-6851

20-1-S1.05-5217 GSFC

[High Efficiency, Hybridized Semiconductor Array Modules for Hard X-Ray Imaging](#) [259]

- **Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 2472

Martin Waters (617) 668-6851

20-1-S1.05-4942 GSFC

[ASP: The AlGaAs Solid-State Photomultiplier](#) [260]

- **Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 2472

Martin Waters (617) 668-6851

20-1-S1.06-5439 GSFC

[Radiation Hard Diamond Particle Detector for Heliophysics](#) [261]

- **RC Integrated Systems, LLC**

20100 South Western Avenue, Suite A5

Torrance, CA 90501

Naibing Ma (760) 383-1218

20-1-Z3.05-4692 GSFC

[Miniature Optical Proximity Sensor](#) [262]

- **RC Integrated Systems, LLC**

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20100 South Western Avenue, Suite A5

Torrance, CA 90501

Naibing Ma (760) 383-1218

20-1-A2.01-4786 AFRC

[Distributed Optical Sensing System](#) [263]

- **Rebel Space Technologies, Inc.**

1747 East 2nd Street

Long Beach, CA 90802

Carrie Hernandez (310) 819-2348

20-1-H9.07-6124 GRC

[SpaceWeaver: A Collaborative Smart Network for Space Communications](#) [264]

- **Relative Dynamics, Inc.**

6401 Golden Triangle Drive, Suite 201

Greenbelt, MD 20770

Kush Patel (301) 335-0491

20-1-Z8.02-4538 JPL

[Optical Communication Terminal](#) [265]

- **Relative Dynamics, Inc.**

6401 Golden Triangle Drive, Suite 201

Greenbelt, MD 20770

Kush Patel (301) 335-0491

20-1-S2.03-5953 JPL

[Large Space Optics Using System Identification](#) [266]

- **Relativity Space, Inc.**

8701 Aviation Boulevard

Inglewood, CA 90301

Josh Brost (310) 910-8573

20-1-Z4.04-4677 LaRC

[Relativity Space: 3D Printing the Future](#) [267]

- **Remote Sensing Solutions, Inc.**

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

Barnstable, MA 2630

James Canniff (508) 362-9400

20-1-S1.03-6827 GSFC

[Next Generation Radar-Radiometer Space Qualified Digital Receiver and Processor](#) [268]

- **Resilienx**

235 Harrison St, Ste #203

Syracuse, NY 13202

Ryan Pleskach (315) 286-1599

20-1-A3.03-4970 ARC

[Weather Sensor and Data Monitoring \(WSDM\) Service](#) [269]

- **Retrocausal, Inc.**

17634 NorthEast Union Hill Road, Suite 301

Redmond, WA 98052

Muhammad Zeeshan Zia (669) 220-8352

20-1-H12.05-5582 JSC

[Autonomous Guidance for Medical Procedures](#) [270]

- **RNET Technologies, Inc.**

240 West Elmwood Drive, Suite 2010

Dayton, OH 45459

V Nagarjan (937) 433-2886

20-1-S5.01-5983 ARC

[Ecosystem for Early Feedback-Driven HEC Code Development](#) [271]

- **Robotic Materials Inc**

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1860 38th street

Boulder, CO 80301

Nicolaus Correll (303) 717-1436

20-1-Z5.04-6543 ARC

[Programming-Free Manipulation-in-the-Box Solution for Autonomous IVA](#) [272]

- **Robust Analytics**

1302 Cronson Boulevard, Suite B

Crofton, MD 21114

Peter Kostiuk (410) 980-3667

20-1-A3.02-6226 LaRC

[Networked Aviation Urban Climate Stations](#) [273]

- **Runtime Verification, Inc.**

102 East Main Street, Suite 500

Urbana, IL 61801

Patrick MacKay (217) 550-1558

20-1-A2.02-6033 ARC

[A Semantics-Based Verification Toolset for UAS Embedded Software](#) [274]

- **Ryzing Technoloties LLC**

162A Greenville Avenue

Staunton, VA 24401

Ryan Gundling (540) 294-2928

20-1-H5.01-6530 LaRC

[Articulating Airbeam Tripod Boom for Solar Arrays](#) [275]

- **S. D. Miller and Associates, PLLC**

216 West Cherry Avenue, Building 2

Flagstaff, AZ 86001

Steve Miller (928) 779-5000

20-1-Z7.03-5096 LaRC

[High Temperature Flexible Aerogel Insulation for Extreme HIAD Environments](#) [276]

- **Saber Astronautics**

3100 South Sheridan Boulevard 1C-206

Denver, CO 80227

Nathan Parrott (303) 884-1146

20-1-Z8.06-6695 MSFC

[DragEN - A DragSail for Small Spacecraft](#) [277]

- **Scientific Simulations, LLC**

1582 Inca Drive

Laramie, WY 82072

Dimitri Mavriplis (307) 399-8717

20-1-A1.02-5606 GRC

[Unstructured Overset Hybrid RANS/LES Simulations for Jet Noise Prediction](#) [278]

- **sdPhotonics, LLC**

201 East Arapaho Road, Suite 210

Richardson, TX 75081

Dennis Deppe (407) 929-1062

20-1-H9.05-5790 GSFC

[Ultralow Bit Energy VCSEL-Based Transceiver for High Efficiency, Radiation-Hardened Optical Data Links](#) [279]

- **Sedaro Technologies, LLC**

6927 Custis Parkway

Falls Church, VA 22042

Robert Robertson (703) 945-8240

20-1-S5.04-4767 JPL

[Enabling Model-Based Systems Engineering with Sedaro Satellite](#) [280]

- **SenSanna Incorporated(formerly ASR&D)**

7468 Candlewood Road, Suite A

Hanover, MD 21076

Jacqueline Hines (410) 991-4345

20-1-Z8.10-6645 ARC

[Passive Wireless Strain Sensors for Inflatable Spacecraft and Parachutes](#) [281]

- **Sensuron, LLC**

3101 Bee Caves Road, Suite 110

Austin, TX 78746

Pierrick Vulliez (775) 830-2059

20-1-A2.01-5718 AFRC

[Space-Rated, Rugged, Compact and Inexpensive Fiber Sensor Interrogator](#) [282]

- **Sequoia Scientific, Inc.**

2700 Richards Road

Bellevue, WA 98005

Ole Mikkelsen (425) 641-0944

20-1-S1.08-6453 GSFC

[In-Situ Hyperspectral Absorption Instrument in Support of Ocean Color and Biogeochemistry](#) [283]

- **Sierra Lobo, Inc.**

102 Pinnacle Drive

Fremont, OH 43420

Phil Putman (419) 499-9653

20-1-Z12.01-5658 JPL

[Lunar Ice Mining Using a Heat-Assisted Cutting Tool](#) [284]

- **Sierra Lobo, Inc.**

102 Pinnacle Drive

Fremont, OH 43420

Phil Putman (419) 499-9653



20-1-Z10.01-6068 JSC

[Broad Area Cooling with Hybrid Additive Manufactured Pressure Vessel](#) [285]

- **Sigma Technologies International, Inc.**

10960 North Stallard Place

Tucson, AZ 85737

Christopher Hohmann (520) 575-8013

20-1-S3.02-6450 GRC

[Energy Buffer Capacitors for Use in Dynamic Power Conversion ACUs](#) [286]

- **Silicon Space Technology Corporation**

1501 South MoPac Expressway, Suite 350

Austin, TX 78746

Garry Nash (631) 559-1550

20-1-H6.22-4509 ARC

[CNN RNN Processor](#) [287]

- **Silicon Space Technology Corporation**

1501 South MoPac Expressway, Suite 350

Austin, TX 78746

Garry Nash (631) 559-1550

20-1-Z2.02-4527 GSFC

[NN Co-Processor](#) [288]

- **Silicon Space Technology Corporation**

1501 South MoPac Expressway, Suite 350

Austin, TX 78746

Garry Nash (631) 559-1550

20-1-S3.08-4526 LaRC

[Fault-Tolerant RISC-V SoC](#) [289]

- **SKYGIG LLC**

2222 Fuller Court, Apartment 1115A

Ann Arbor, MI 48105

Armin Jam (734) 926-7762

20-1-Z8.02-5915 ARC

[Advanced Beamforming Antenna System for High Data Rate Small Spacecraft Communications](#) [290]

- **Skyhaven Systems, LLC**

25557 Bella Vista Circle, P.O. Box 770252

Steamboat Springs, CO 80477

Michael Kimble (970) 846-0547

20-1-S2.04-5563 MSFC

[Zero Net Stress Coating Method for X-Ray Mirrors](#) [291]

- **SoftInWay, Inc.**

1500 District Ave

Burlington, MA 1803

Leonid Moroz (789) 685-4942

20-1-A1.07-6799 GRC

[Axial Compressor Map Generation Leveraging Autonomous Self-Training AI](#) [292]

- **Solvus Global LLC**

104 Prescott Street

Worcester, MA 1605

Sean Kelly (508) 733-1808

20-1-Z4.04-6302 LaRC

[Integrated Process Monitoring Software and Multi-Sensor Suite for Improved Reliability in Wire-Fed AM](#) [293]

- **Sonalysts, Inc.**

215 Parkway North

Waterford, CT 6385

Amy Stuchell (860) 326-3639

20-1-A3.01-5809 LaRC

[AcTOR: Aircraft Trajectory Optimization Resolver](#) [294]

- **Space Environment Technologies, LLC**

1676 Palisades Drive

Pacific Palisades, CA 90272

W. Kent Tobiska (310) 573-4185

20-1-S5.06-5891 GSFC

[Machine Learning Enabled Thermosphere Advanced by HASDM \(META-HASDM\)](#) [295]

- **Space Micro, Inc.**

10237 Flanders Court

San Diego, CA 92121

David Strobel (858) 332-0700

20-1-H8.01-5383 LaRC

[Advanced Space Communications Experiment on MISSE-FF](#) [296]

- **Space Micro, Inc.**

10237 Flanders Court

San Diego, CA 92121

David Strobel (858) 332-0700

20-1-H8.01-4646 LaRC

[MISSE-FF Experiment on Advanced COTS Processors](#) [297]

- **Spaceworks Engineering, Inc. (SEI)**

1050 Crown Pointe Parkway, Suite 1400

Atlanta, GA 30038

John Bradford (770) 379-8007

20-1-Z3.04-5654 LaRC

[Autonomous Docking Operations For A Novel In-Space Assembly Connector](#) [298]

- **Sparks Polarimetry, LLC**

18124 Gunpowder Road

Hampstead, MD 21074

William Sparks (443) 244-3332

20-1-S1.11-4876 JPL

[Polarimetric Detection of Agnostic Chiral Biosignatures](#) [299]

- **Special Aerospace Services**

3005 30th Street

Boulder, CO 80301

Heather Bulk (303) 325-1010

20-1-H10.02-5209 KSC

[Autonomous Launch Vehicle Interface System](#) [300]

- **Speckodyne Corporation**

91 Robin Drive

Hamilton, NJ 8619

Laura Dogariu (609) 375-7631

20-1-Z7.06-5914 ARC

[Multifunctional Laser System for 1D and 2D Imaging Diagnostic for High-Enthalpy Test Facilities](#) [301]

- **Spectrum Magnetics, LLC**

1210 First State Boulevard

Wilmington, DE 19804

Jianrong Lin (302) 379-9808

20-1-S1.03-5667 GSFC

[An Innovative sub-mmWAVE/THz Noise Chip Using PIC Technology](#) [302]

- **Spectrum Scientific, Inc.**

16692 Hale Avenue, Suite A

Irvine, CA 92606

Grant DeCastro (949) 260-9900

20-1-S2.04-6117 GSFC

[Blazed Holographic Gratings with Aberration Correction on Freeform Mirror Surfaces for DUV Instruments](#) [303]

- **Spectral Quantum Technologies, Inc.**

1441 Little Raven Street 21003

Denver, CO 80202

David Mitlyng (650) 704-5650

20-1-H9.05-6535 GSFC

[Quantum Clock Synchronization](#) [304]

- **Starfire Industries LLC**

2109 South Oak Street

Champaign, IL 61820

Brian Jurczyk (708) 955-6691

20-1-Z10.03-5512 MSFC

[\(U,Zr\)C Mixed Carbide Fuel Coatings Using Impulse PVD](#) [305]

- **STOKE Space Technologies, Inc.**

18628 South East 180th Street

Renton, WA 98058

Andrew Lapsa (206) 240-7647

20-1-Z7.04-5610 GRC

[Advanced Rocket Nozzle for Planetary Landers and Reusable Space Vehicles](#) [306]

- **Streamline Numerics, Inc.**

3221 North West 13th Street, Suite A

Gainesville, FL 32609

Jeffrey Wright (352) 271-8841

20-1-H10.01-5289 SSC

[A Fast and Robust PIMPLE-Based Algebraic VOF Method for Two-Phase Compressible Flows](#) [307]

- **Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Peter Gondek (310) 679-2281

20-1-A1.06-4899 AFRC

[Use of Pilot Models to Support Design, Analysis, and Certification of UAM Vehicles](#) [308]

- **Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Peter Gondek (310) 679-2281

20-1-A2.01-4901 ARC

[A Portable Flight Test Display for UAM Means of Compliance Testings](#) [309]

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

841 Park East Drive

Woonsocket, RI 02895

Aaron Tomich (401) 762-1500

20-1-H5.02-6147 MSFC

[Through Thickness Reinforcement of Tubular and Conical Preforms for Hot Structure Applications](#) [310]

- **Tallannquest**

538 Haggard Street, Suite 406

Plano, TX 75074

Anton Quiroz (214) 554-2752

20-1-Z1.05-5805 GRC

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- **TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

20-1-H5.02-5399 AFRC

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- **TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

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- **Tech4Imaging, LLC**

4171 Fairfax Drive

Columbus, OH 43220

Qussai Marashdeh (614) 214-2655

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- **Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Juanita Melton (812) 728-8135

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- **Tensor Innovation Partners, LLC**

337 Forest Park Circle

Longwood, FL 32779

Lee Wooldridge (407) 617-4741

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- **TentGuild Engineering Company**

4740 Table Mesa Drive

Boulder, CO 80305

Gyula Greschik (866) 666-7761

20-1-H5.01-5543 LaRC

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- **Tetra Research Corporation**

1019 Cider Mill Road

Cornwall, VT 5753

Rex Chamberlain (256) 426-0056

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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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- **ThermAvant Technologies, LLC**

2508 Paris Road

Columbia, MO 65202

Joseph Boswell (573) 397-6912

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- **ThermAvant Technologies, LLC**

2508 Paris Road

Columbia, MO 65202

Joseph Boswell (573) 397-6912

20-1-S1.09-6775 GSFC

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- **ThermoAnalytics, Inc.**

23440 Airpark Boulevard

Calumet, MI 49913

Kevin Denomme (906) 482-9560

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- **Tietronix Software, Inc.**

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Frank Hughes (281) 461-9300

20-1-H12.05-6577 JSC

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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

20-1-Z5.04-6352 ARC

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- **Transition45 Technologies, Inc.**

28245 Via Del Mar

San Juan Capistrano, CA 92675

Edward Chen (714) 283-2118

20-1-Z3.03-6207 MSFC

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- **Tribo Flow Separations, LLC**

2324 Lilac Park

Lexington, KY 40509

John Stencel (859) 552-6229

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- **Trimer Technologies, LLC**

3905 Varsity Drive

Ann Arbor, MI 48108

Henry Sodano (480) 205-1202

20-1-Z1.05-5373 GRC

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- **Triton Systems, Inc.**

200 Turnpike Road

Chelmsford, MA 1824

Collette Jolliffe (978) 856-4158

20-1-Z13.02-6403 KSC

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- **TTH Research, Inc.**

7830 My Way

Clifton, VA 20124

Triem Hoang (703) 344-4575

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- **Twinleaf, LLC**

300 Deer Creek Drive, Suite 300

Plainsboro, NJ 8536

Elizabeth Foley (609) 759-0859

20-1-S1.06-6721 GSFC

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- **UES, Inc.**

4401 Dayton-Xenia Road

Dayton, OH 45432

Louise Tincher (937) 426-6900

20-1-Z4.05-6355 LaRC

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- **Ultra Safe Nuclear Corporation - Space**

2356 West Commodore Way, Unit 120

Seattle, WA 98199

Paolo Venneri (858) 342-4837

20-1-Z10.03-6623 GRC

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- **Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig N. Ward (818) 899-0236

20-1-S3.02-6781 GRC

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- **Urban Sky Theory, Inc.**

3710 East 17th Avenue

Denver, CO 80206

Andrew Antonio (302) 383-7244

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- **US Hybrid Corporation**

445 Maple Avenue

Torrance, CA 90503

Abas Goodarzi (310) 212-1200

20-1-Z5.05-5968 GRC

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- **Vcrsoft, LLC**

3513 Napoleon Court

Plano, TX 75023

VC Ramesh (817) 213-6184

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- **Vector Atomic, Inc.**

1249 Quarry Lane Suite 100

Pleasanton, CA 94566

Jason Burke (925) 249-5959

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- **Virginia Diodes, Inc.**

979 Second Street, Southeast

Charlottesville, VA 22902

Thomas Crowe (434) 297-3257

20-1-S1.03-4673 JPL

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- **Vistacent, LLC**

111 Veterans Memorial Boulevard, Suite 1600

Metairie, LA 70005

Jeff Tomeny (504) 831-1900

20-1-H8.01-5246 MSFC

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- **WarpIV Technologies, Inc.**

5230 Carroll Canyon Road, Suite 306

San Diego, CA 92121

Teresa Hernandez (858) 605-1646

20-1-S5.01-4746 ARC

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- **WattGlass**

700 West Research Center Boulevard

Fayetteville, AR 72701

Corey Thompson (479) 263-0966

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- **Wecoso, LLC**

6741 Brentwood Drive

Huntington Beach, CA 92648

David McGorin (714) 290-0809

20-1-S1.09-5165 JPL

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- **Wecoso, LLC**

6741 Brentwood Drive

Huntington Beach, CA 92648

David McGorin (714) 290-0809

20-1-S1.09-5162 JPL

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- **WinterWinds Robotics**

1925 Pike Road Suite 202

Longmont, CO 80501

Valerie Eastman (970) 632-0178

20-1-S5.05-4693 MSFC

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

555 Quince Orchard Road, #510

Gaithersburg, MD 20878

Jennifer Duan (301) 200-8368

20-1-Z4.05-5920 LaRC

[Novel Thermosonic In-Process Nondestructive Evaluation of Additive Manufacturing Build](#) [350]

- **XploSafe, LLC**

712 Eastgate Street

Stillwater, OK 74074

Shoaib Shaikh (918) 813-2955

20-1-H4.01-5892 JSC

[Vacuum-Regenerable Sorbent for NASA's Exploration Portable Life Support System](#) [351]

- **ZeCoat Corporation**

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23510 Telo Avenue, Suite 3

Torrance, CA 90505

Gillian Sheikh (424) 254-6002

20-1-S2.01-4661 JPL

[Specular Black Coating for Flexible Starshade Optical Shield](#) [352]

- **ZONA Technology, Inc.**

9489 East Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

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