



## Proposals Selected for Negotiation of Contracts

Expand All

- **Focus Area 1 In-Space Propulsion Technologies (5)**

- **Advanced Ceramics Manufacturing**

- 7800 South Nogales Highway

- Tucson, AZ 85756

- Mark Angier (520) 547-0850

- 20-2-Z10.04-6073 GRC

- [BN Ceramics for Hall-Effect Thruster Discharge Channels](#) [1]

- **Dynaflow, Inc.**

- 10621-J Iron Bridge Road

- Jessup, MD 20794

- Chao-Tsung Hsiao (301) 604-3688

- 20-2-Z10.01-4597 GRC

- [DynaSwirl® Phase Separator for Cryogenic Liquid/Vapor Separation](#) [2]

- **E-beam, Inc.**

- 21070 Southwest Tile Flat Road

- Beaverton, OR 97007

- Bernard Vancil (503) 628-0703

- 20-2-Z10.04-4678 GRC

- [Innovations in Hollow Cathode Construction Technology](#) [3]

- **HiFunda, LLC**

- 421 Wakara Way, Suite 210

- Salt Lake City, UT 84108

- Balakrishnan Nair (801) 897-1221

20-2-Z10.04-5651 GRC

[Castable Inorganic Composite Potting Material for High-Temperature Electromagnets](#) [4]

**Sierra Lobo, Inc.**

102 Pinnacle Drive

Fremont, OH 43420

Alex Walker (567) 401-1068

20-2-Z10.01-6068 JSC

[Broad Area Cooling with Hybrid Additive Manufactured Pressure Vessel](#) [5]

• **Focus Area 2 Power Energy and Storage (7)**

**CoolCAD Electronics, LLC**

7101 Poplar Avenue

Takoma Park, MD 20912

Lisa Sachar (301) 405-3363

20-2-Z1.06-5768 JPL

[Radiation Tolerant High Voltage Silicon Carbide Switches](#) [6]

**Logisic Devices, Inc.**

1968 Serge Avenue

San Jose, CA 95130

Vipindas Pala (518) 596-9083

20-2-Z1.06-5841 GRC

[Radiation Tolerant High-Voltage Silicon Carbide Devices](#) [7]

**MicroLink Devices, Inc.**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 588-3001

20-2-S3.01-5487 GRC

[Flexible Solar Modules with Low-Cost Prismatic Encapsulation](#) [8]

**Polaronyx, Inc.**

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2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

20-2-Z1.03-5119 GRC

[Light Weight Radiation Shielding Components](#) [9]

**Sigma Technologies International, Inc.**

10960 North Stallard Place

Tucson, AZ 85737

Christopher Hohmann (520) 575-8013

20-2-S3.02-6450 GRC

[Energy Buffer Capacitors for Use in Dynamic Power Conversion ACUs](#) [10]

**Tallannquest**

538 Haggard Street, Suite 406

Plano, TX 75074

Anton Quiroz (214) 554-2752

20-2-Z1.05-5805 GRC

[A Modular, High-Efficiency, Radiation-Hardened, DC-DC Converter with Decentralized Control](#) [11]

**ThermAvant Technologies, LLC**

2508 Paris Road

Columbia, MO 65202

Daniel Pounds (573) 397-6912

20-2-Z1.03-5493 GRC

[A High Temperature Heat Rejection System for Fission Power Generation](#) [12]

• **Focus Area 3 Autonomous Systems for Space Exploration (3)**

**Adventium Enterprises, LLC**

111 Third Avenue South, Suite 100

Minneapolis, MN 55401

Kyle Nelson (612) 280-9843

20-2-S5.05-4643 MSFC

[Fault Recovery Instruction Generation using Automata Derived from Traditional Engineering Models \(FRIGATE\)](#) [13]

**Brisk Computing, LLC**

1191 Red Ash Court

Centerville, OH 45458

Tarek Taha (937) 765-7742

20-2-H6.22-5558 GRC

[Resistive Deep Learning Neuromorphic Processors](#) [14]

**Nanomatronix, LLC**

700 Research Center Boulevard

Fayetteville, AR 72701

Matthew Leftwich (479) 215-9438

20-2-H6.22-6259 ARC

[Efficient Neuromorphic Processor Design for Autonomous Space Operation](#) [15]

• **Focus Area 4 Robotic Systems for Space Exploration (7)**

**Applied Tungstenite Corporation**

2480 Precision Drive Unit i

Minden, NV 89423

Eric Woods (775) 267-1244

20-2-S4.02-6335 GRC

[Cold Spray Low-Friction Composite Metal-Solid Lubricant Coatings](#) [16]

**Blueshift, LLC**

575 Burbank Street, Unit G

Broomfield, CO 80020

Ryan Garvey (850) 445-3431

20-2-Z5.05-6062 JSC

[Modeling Rover Interactions with Lunar Regolith in Permanently Shadowed Regions](#) [17]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 3755

Robert Kline-Schoder (603) 640-2487

20-2-S4.02-5011 JPL

[Compact, Robust Pump for Deep Subsurface Ice Penetration](#) [18]

**Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Darby Makel (530) 895-2771

20-2-Z5.04-4921 ARC

[Environmental Monitoring Microsensor Array \(EMMA\) for Free Flying Robots](#) [19]

**PickNik Inc**

1942 Broadway, Suite 222

Boulder, CO 80302

Mark Moll (713) 775-7621

20-2-Z5.04-5434 JSC

[Advanced planning capabilities for robots in microgravity environments](#) [20]

**Protoinnovations, LLC**

100 43rd Street

Pittsburgh, PA 15201

Dimitrios Apostolopoulos (412) 916-8807

20-2-Z5.05-6066 ARC

[Dynamically Reconfigurable Software and Mobility Architecture for Autonomous Planetary Rovers](#) [21]

**TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

20-2-Z5.04-6352 ARC

[PLUMMRS: A collection of Plan Ledgers and Unified Maps for Multi-Robot Safety](#) [22]

- **Focus Area 5 Communications and Navigation (6)**

**AiRANACULUS**

9 Flint Street

Chelmsford, MA 1824

Apurva Mody (404) 819-0314

20-2-H9.07-6063 GRC

[Cross Layer Spectrum Aware Cognitive Control Plane and Intelligent Routing Engine \(CLAIRE\)](#) [23]

**Aster Labs, Inc.**

155 East Owasso Lane

Shoreview, MN 55126

Suneel Sheikh (651) 484-2084

20-2-H9.03-6399 GSFC

[Multi-Target Tracking using Random Finite Sets for Rendezvous and Proximity Operations with Non-Gaussian Uncertainties](#) [24]

**CesiumAstro, Inc.**

13412 Galleria Circle, Suite H-100

Austin, TX 78738

Chris Pappas III (206) 605-4130

20-2-H9.05-6746 GRC

[Commercial-Scale Arrays for Lunar Exploration: Communications and Sensing System](#) [25]

**Fibertek, Inc.**

13605 Dulles Technology Drive

Herndon, VA 20171

Tracy Perinis (703) 471-7671

20-2-H9.01-6134 JPL

[High Power \(50W\), 1.5um WDM Fiber Laser Transmitter with Effective FWM Mitigation](#) [26]

**Magma Space LLC**

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33 North Street Northeast, Apartment 432

Washington, DC 20002

Alessandro Stabile (202) 843-7850

20-2-S3.04-5121 GSFC

[Semi-Active Magnetically Levitated Reaction Wheel](#) [27]

**Rebel Space Technologies, Inc.**

1747 East 2nd Street

Long Beach, CA 90802

Carrie Hernandez (310) 819-2348

20-2-H9.07-6124 GRC

[SpaceWeaver: A Collaborative Smart Network for Space Communications](#) [28]

• **Focus Area 6 Life Support and Habitation Systems (9)**

**Advanced Fuel Research, Inc.**

87 Church Street

East Hartford, CT 6108

Michael Serio (860) 528-9806

20-2-H4.01-5668 JSC

[Advanced Multipollutant Trace Contaminant Sorbents for the Exploration Portable Life Support System](#) [29]

**Adventium Enterprises, LLC**

111 Third Avenue South, Suite 100

Minneapolis, MN 55401

Kyle Nelson (612) 280-9843

20-2-H6.04-5136 ARC

[Stakeholder Access to Embedded System Models \(SAESM\)](#) [30]

**Bettergy Corporation**

8 John Walsh Boulevard, Suite 321

Peekskill, NY 10566

Lin-Feng Li (914) 290-6293

20-2-H3.01-5695 MSFC

[High Efficiency Hydrogen Separation Membrane Module for Space Oxygen Recovery Systems](#) [31]

**InterCAX, LLC**

2402 Lively Trail

Atlanta, GA 30345

Dirk Zwemer (404) 592-6897

20-2-H6.04-5952 JSC

[Digital Pipelines – A framework for Continuous Integration, Verification, and Delivery of Complex Systems](#) [32]

**Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

20-2-H4.05-6156 JSC

[Leak Mitigating Water Loop Connector](#) [33]

**PH Matter, LLC**

6655 Singletree Drive

Columbus, OH 43229

Christopher Holt (614) 783-2396

20-2-H3.01-4569 MSFC

[Automated Carbon Formation Reactor](#) [34]

**Photon Systems, Inc.**

1512 Industrial Park Street

Covina, CA 91722

William Hug (626) 967-6431

20-2-H3.02-6731 JPL

[MAIA: Microbial Assessment w/In-Situ Autofluorescence](#) [35]

**Precision Combustion, Inc.**

410 Sackett Point Road



North Haven, CT 6473

Anthony Anderson (203) 287-3700

20-2-H4.01-5200 JSC

[Vacuum-Regenerable Trace Contaminant Control for Exploration Portable Life Support System](#) [36]

**XploSafe, LLC**

712 Eastgate Street

Stillwater, OK 74074

Shoaib Shaikh (918) 813-2955

20-2-H4.01-5892 JSC

[Vacuum-Regenerable Sorbent for NASA's Exploration Portable Life Support System](#) [37]

• **Focus Area 7 Human Research and Health Maintenance (2)**

**Nahlia Inc**

95 1st Street, Suite 240

Los Altos, CA 94022

Jayant Menon (310) 936-6237

20-2-H12.05-4929 ARC

[Autonomous Medical Response Agent \(AMRA\) for Prolonged Field Care in Space](#) [38]

**Tietronix Software, Inc.**

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Victor Tang (281) 404-7222

20-2-H12.05-6577 GRC

[Intelligent Medical Crew Assistant \(IMCA\)](#) [39]

• **Focus Area 8 In-Situ Resource Utilization (3)**

**Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

20-2-Z12.01-4941 JSC

[Thermal Management System for Lunar Ice Miners](#) [40]

**Lunar Resources, Inc.**

5000 Gulf Freeway, Exploration Research Park, Building 4

Houston, TX 77023

Elliot Carol (646) 455-8382

20-2-Z12.01-4634 KSC

[Prototype Development of a Molten Regolith Electrolysis Oxygen Capturing, Filtering and Storage System](#) [41]

**Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Joel Johnson (520) 382-4854

20-2-Z12.01-5262 JSC

[ISRU Collector of Ice in a Cold Lunar Environment \(ICICLE\)](#) [42]

• **Focus Area 9 Sensors, Detectors and Instruments (25)**

**Adroit Materials**

2054 Kildaire Farm Rd., Suite 205

Cary, NC 27518

Zlatko Sitar (919) 515-8637

20-2-S1.05-6061 JPL

[Novel, Deep-UV APDs for Atomic Clocks and Space Observation](#) [43]

**AdValue Photonics, Inc.**

2700 East Bilby Road

AZ, AZ 85706

Shibin Jiang (520) 790-5468

20-2-S1.01-6290 GSFC

[100s of kW Peak Power Fiber Amplifier for Next-Generation LiDAR Application](#) [44]

**AdValue Photonics, Inc.**

2700 East Bilby Road

AZ, AZ 85706

Shibin Jiang (520) 790-5468

20-2-S1.01-6553 LaRC

[Thirty Millijoule Single Frequency 2 Micron Fiber Lasers for Coherent Wind Lidar](#) [45]

**Advanced Science and Novel Technology**

27 Via Porto Grande

Rancho Palos Verdes , CA 90275

Vladimir Katzman (310) 377-6029

20-2-S1.02-4618 JPL

[Robust Radiation Hard Low Power DAC](#) [46]

**Aerodyne Research, Inc.**

45 Manning Road

Billerica, MA 1821

David Gordon (978) 663-9500

20-2-S1.08-5149 ARC

[Two-Channel, Fast Time-Response CAPS NOx Monitor](#) [47]

**Alphacore, Inc.**

304 South Rockford Drive

Tempe, AZ 85281

Esko Mikkola (480) 494-5618

20-2-S1.03-5272 JPL

[20 GSPS ADC For Spectrometer Backends In Microwave Radiometers](#) [48]

**Amphionic, LLC**

875 North Lima Center Road

Dexter, MI 48130

Suneel Joglekar (765) 609-1308

20-2-S1.06-6213 GSFC

[Radiation-Resistant High-Resolution Particle Sensors from Composites of Semiconductor Nanoparticles and Aramid Nanofibers](#) [49]

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

282 Century Place, Suite 1000

Louisville, CO 80027

Rachel Hauser (303) 993-8039

20-2-S1.12-5255 GSFC

[Ocean Stabilized Ionospheric Remote Imaging Sensor \(OSIRIS\)](#) [50]

**Beyond Photonics, LLC**

6205 Lookout Road, Suite B

Boulder, CO 80301

Charley Hale (303) 475-2088

20-2-S1.01-5597 LaRC

[Compact Power Amplifier for Hybrid Fiber/Bulk Wind Lidar Transmitters](#) [51]

**Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Paul Leisher (805) 967-4900

20-2-S1.01-6161 GSFC

[Watt-Class Diffraction-Limited Narrow Linewidth 8xx nm Diode Lasers](#) [52]

**Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Leif Johansson (805) 277-3031

20-2-S1.01-6160 LaRC

[High-Reliability Space-Qualified LIDAR Source Packages](#) [53]

**Gloyer-Taylor Laboratories, LLC**

112 Mitchell Boulevard

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Tullahoma, TN 37388

Paul Gloyer (931) 455-7333

20-2-S1.09-4863 GSFC

[Ultralight Dewar Phase II](#) [54]

**Impossible Sensing, LLC**

3407 South Jefferson Avenue

St. Louis, MO 63118

Alexis Hitt (314) 467-8763

20-2-S1.07-6626 ARC

[PERISCOPE - Probe for Exploring Regolith and Ice by Subsurface Classification of Organics, PAHs, and Elements](#) [55]

**Innovative Imaging and Research Corporation**

Building 1103, Suite 140C

Stennis Space Center, MS 39529

Mary Pagnutti (228) 688-2452

20-2-S1.08-4948 ARC

[Angstrom: An Imaging Star Photometer](#) [56]

**Integrated Deposition Solutions**

609 Osuna Road NE

Albuquerque, NM 87113

David Keicher (505) 463-0414

20-2-S1.07-4616 JPL

[Advance Aerosol Separator for Planetary Exploration](#) [57]

**Leiden Measurement Technology, LLC**

1230 Mountain View Alviso Road, Suite A

Sunnyvale, CA 94089

Nathan Bramall (510) 301-8980

20-2-S1.11-6468 ARC

[Flat-field Automated Ultraviolet Exploration Microscope](#) [58]

**Micro Harmonics Corporation**

20 South Roanoke Street, Suite 202

Fincastle, VA 24090

Diane Kees (540) 473-9983

20-2-S1.02-6080 JPL

[Broadband Millimeter-Wave Hybrid Circulators for NASA Missions](#) [59]

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

19805 Hamilton Avenue

Torrance, CA 90502

Ilana Gat (310) 756-0520

20-2-S1.08-5488 GSFC

[AquaFloat: A Near-Surface Hyperspectral Radiometer System for Improved Ocean Color Measurements within the UV-VIS-NIR Spectral Region](#) [60]

**QmagiQ**

22 Cotton Road, Unit H, Suite 180

Nashua, NH 3063

Mani Sundaram (603) 821-3092

20-2-S1.04-6866 GSFC

[INAS Detectors for Infrared Astronomy](#) [61]

**Quinstar Technology, Inc.**

24085 Garnier Street

Torrance, CA 90505

Tracy Lee (310) 320-1111

20-2-S1.02-5000 GSFC

[V-band Solid-State Power Amplifier \(65-71 GHz\)](#) [62]

**Remote Sensing Solutions, Inc.**

1 Technology Park Drive Suite A

Buzzards Bay, MA 2532

James Canniff (508) 362-9400

20-2-S1.03-6827 GSFC

[Next Generation Radar-Radiometer Space Qualified Digital Receiver and Processor](#) [63]

**Sequoia Scientific, Inc.**

2700 Richards Road

Bellevue, WA 98005

Ole Mikkelsen (425) 641-0944

20-2-S1.08-6453 GSFC

[In-Situ Hyperspectral Absorption Instrument in Support of Ocean Color and Biogeochemistry](#) [64]

**Vector Atomic, Inc.**

1249 Quarry Lane, Suite 100

Pleasanton, CA 94566

Jamil Abo-Shaeer (925) 249-5959

20-2-S1.10-5445 GSFC

[Comb Using Photonically Integrated Devices \(CUPID\)](#) [65]

**Virginia Diodes, Inc.**

979 Second Street, Southeast

Charlottesville, VA 22902

Thomas Crowe (434) 297-3257

20-2-S1.03-4673 JPL

[Correlating Radiometers](#) [66]

**Wecoso, LLC**

6741 Brentwood Drive

Huntington Beach, CA 92648

Carl Kirkconnell (714) 222-0424

20-2-S1.09-5162 JPL

[Compact Cryocooler Electronics \(CCCE\) for Small Satellites](#) [67]

• **Focus Area 10 Advanced Telescope Technologies (6)**

**Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 604-0077

20-2-S2.03-4652 MSFC

[Programmable Phase ing Interferometer](#) [68]

**Obsidian Sensors**

5754 Pacific Center Boulevard

San Diego, CA 92121

John Hong (858) 334-9615

20-2-S2.01-5933 JPL

[Active Matrix Programmable Mirror](#) [69]

**Octave Photonics, LLC**

2735 Bristlecone Court

Lafayette, CO 80026

Zachary Newman (513) 315-3618

20-2-S2.05-5110 JPL

[Supercontinuum Waveguides for Extreme Radial-Velocity Instrumentation](#) [70]

**Polaronyx, Inc.**

2526 Qume Drive, Suites 17 and 18

San Jose, CA 95131

Jian Liu (408) 573-0930

20-2-S2.02-5072 JPL

[Precision Femtosecond Laser Additive Manufacturing and Athermal Welding](#) [71]

**Skyhaven Systems, LLC**

25557 Bella Vista Circle, P.O. Box 770252

Steamboat Springs, CO 80477

Michael Kimble (970) 846-0547

20-2-S2.04-5563 GSFC

[Zero Net Stress Coating Method for X-Ray Mirrors](#) [72]

**ZeCoat Corporation**

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1230 West First Street

Granite City, IL 62040

Gillian Sheikh (424) 254-6002

20-2-S2.01-4661 JPL

[Dark coatings with tailorable BRDF and thermal-emissivity for light-blocking starshade membranes](#) [73]

- **Focus Area 11 Spacecraft and Platform Subsystems (5)**

- **Alphacore, Inc.**

- 304 South Rockford Drive

- Tempe, AZ 85281

- Esko Mikkola (480) 494-5618

- 20-2-Z2.02-5369 JPL

- [Radiation Tolerant Standard Cell Library in a 22nm FDSOI CMOS Process](#) [74]

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

- 1933 Davis Street, Suite 210

- San Leandro, CA 94577

- Hong Jiao (408) 464-3873

- 20-2-S4.05-6362 JPL

- [Rapid Microbial Detection and Monitoring Technology for Planetary Protection](#) [75]

- **InnoSys, Inc.**

- 2900 South Main Street

- Salt Lake City, UT 84115

- Jennifer Hwu (801) 975-7399

- 20-2-S4.04-6407 GRC

- [Venus Imaging Camera](#) [76]

- **Intelligent Automation, Inc.**

- 15400 Calhoun Drive, Suite 190

- Rockville, MD 20855

- Mark James (301) 294-5221

20-2-Z2.02-5909 JPL

[Deep Learning Processing Subsystem \(DLPS\): A HPSC-Compatible Deep Learning Coprocessor](#) [77]

**Paragon Space Development Corporation**

3481 East Michigan Street

Tucson, AZ 85714

Joel Johnson (520) 382-4854

20-2-S3.05-5291 JPL

[Mechanical-compression Aerobot for extended Range Venus ExpLoration \(MARVEL\)](#) [78]

• **Focus Area 12 Entry, Descent, and Landing Systems (7)**

**ATA Engineering, Inc.**

13290 Evening Creek Drive South

San Diego, CA 92128

Joshua Davis (858) 480-2028

20-2-Z7.05-4881 ARC

[Analytical Toolset for Loom-To-Weave Prediction of Woven Thermal Protection System Material Performance](#) [79]

**Pepin Associates**

15 Log Home Rd

Greenville, ME 4441

John Pepin (207) 695-3434

20-2-H5.02-4846 MSFC

[Formable Preform for Complex Shaped Hot Structures](#) [80]

**Psionic, LLC**

1100 Exploration Way

Hampton, VA 23666

Robin Loeffler (757) 325-6835

20-2-Z7.01-6620 LaRC

[Chip-scale Waveform Modulation System for Navigation Doppler Lidar](#) [81]

**Speckodyne Corporation**

91 Robin Drive

Hamilton, NJ 8619

Laura Dogariu (609) 375-7631

20-2-Z7.06-5914 ARC

[Multifunctional Laser System for 1D and 2D Imaging Diagnostic for High-Enthalpy Test Facilities](#) [82]

**STOKE Space Technologies, Inc.**

18628 South East 180th Street

Renton, WA 98058

Andrew Lapsa (206) 240-7647

20-2-Z7.04-5610 GRC

[Advanced Rocket Nozzle for Planetary Landers and Reusable Space Vehicles](#) [83]

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

841 Park East Drive

Woonsocket, RI 2895

Aaron Tomich (401) 762-1500

20-2-H5.02-6147 MSFC

[Through Thickness Reinforcement of Tubular and Conical Preforms for Hot Structure Applications](#) [84]

**TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John D. Wright (303) 940-2347

20-2-H5.02-5399 AFRC

[Rapid Manufacturing of C-C Composites for Thermal Management](#) [85]

• **Focus Area 13 Information Technologies for Science Data (6)**

**Ascending Node Technologies, LLC**

2548 East 4th Street

Tucson, AZ 85716

Sanford Selznick (520) 314-5595

20-2-S5.04-5117 GSFC

[Advanced Science Modeling for Mission Planning & Analysis](#) [86]

**CFD Research Corporation**

6820 Moquin Drive Northwest

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

20-2-S5.06-4808 MSFC

[Space Weather Forecasting Toolset to Support Operations](#) [87]

**Ensemble Government Services, LLC**

4005 Buchanan Street

Hyattsville, MD 20781

Adam Karides (202) 495-1639

20-2-S5.06-5428 GSFC

[Kamodo Containerized Space Weather Models](#) [88]

**Michigan Aerospace Corporation**

1777 Highland Drive, Suite B

Ann Arbor, MI 48108

Erick Finkiewicz (734) 975-8777

20-2-S5.06-4663 GSFC

[Miniaturized Nightglow Interferometer for Monitoring Emissions from a CubeSat](#) [89]

**NearSpace Launch, Inc.**

8702 East 825 South

Upland, IN 46989

Matthew Voss (765) 618-3814

20-2-S5.06-5636 MSFC

[Space-Weather CubeSat Array for 24/7 Prompt Global Coverage Experiment \(SWAP-E\)](#) [90]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 1810

B. David Green (978) 689-0003

20-2-S5.03-5306 GSFC

[Deep Neural Network Algorithms for Upsampling of Surface Images](#) [91]

- **Focus Area 14 On-orbit Servicing, Assembly, and Manufacturing (OSAM) (5)**

- **IERUS Technologies, Inc.**

- 2904 Westcorp Boulevard, Suite 210

- Huntsville, AL 35805

- Zac Snodgrass (256) 319-2026

- 20-2-Z3.03-5627 MSFC

- [Additive Friction Stir Deposition for In-Space Manufacturing](#) [92]

- **Machina Labs, Inc.**

- 1430 Colby Avenue, Unit 302

- Los Angeles, CA 90025

- Babak Raeisinia (770) 769-0114

- 20-2-Z3.04-6074 MSFC

- [In-Space Assembly and Manufacturing Using Synchronized Robotics](#) [93]

- **Quadrus Advanced Manufacturing, LLC**

- 289 Dunlop Boulevard, Building 300

- Huntsville, AL 35824

- Joseph Sims (256) 801-3128

- 20-2-Z3.05-6476 KSC

- [An Additively Manufactured, Leak-Proof NTO Swivel](#) [94]

- **RC Integrated Systems, LLC**

- 20100 South Western Avenue, Suite A5

- Torrance, CA 90501

- Naibing Ma (760) 383-1218

20-2-Z3.05-4692 KSC

[Miniature Optical Proximity Sensor](#) [95]

**TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

20-2-Z3.04-4537 MSFC

[Multi-Agent Planning and Control for Autonomous On-Orbit Servicing, Assembly, and Manufacturing](#) [96]

• **Focus Area 15 Materials, Materials Research, Structures, and Assembly (5)**

**Antech Systems, Inc.**

510 Independence Parkway, Suite 100

Chesapeake, VA 23320

Vincent Martinez (757) 547-2828

20-2-Z4.05-5064 LaRC

[Enhanced Passive Structural Health Monitoring \(SHM\) System](#) [97]

**Dynovas, Inc.**

6906 Sprouse Court

Springfield, VA 22153

Quinn McAllister (508) 717-7494

20-2-H5.01-5594 LaRC

[Motorless Array Deployment \(MAD\) Energy](#) [98]

**Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

Maggie Hudson (434) 483-4254

20-2-Z4.05-5192 LaRC

[Non-Destructive Evaluation Tool Position and Damage Visualization](#) [99]

**Relativity Space, Inc.**

3500 East Burnett Street

Long Beach, CA 90815

Josh Brost (310) 910-8573

20-2-Z4.04-4677 LaRC

[Relativity Space: 3D Printing the Future](#) [100]

**UES, Inc.**

4401 Dayton-Xenia Road

Dayton, OH 45432

Louise Tincher (937) 426-6900

20-2-Z4.05-6355 GSFC

[Probability of Detection and Validation for Computed Tomography Processes for Additive Manufacturing \(21-RD-284\)](#) [101]

• **Focus Area 16 Ground & Launch Processing (3)**

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 1810

B. David Green (978) 689-0003

20-2-H10.01-5308 SSC

[Adaptive Venturi for Surge Pressure Mitigation](#) [102]

**Special Aerospace Services**

3005 30th Street

Boulder, CO 80301

Trudee Andersen (303) 625-1010

20-2-H10.02-5209 KSC

[Autonomous Launch Vehicle Interface System](#) [103]

**Tetra Research Corporation**

1019 Cider Mill Road

Cornwall, VT 5753

Rex Chamberlain (256) 426-0056

20-2-H10.01-6364 SSC

[Advanced Computational Tools for Thermal and Acoustic Analysis of Rocket Ground Test Facilities](#) [104]

- **Focus Area 17 Thermal Management Systems (4)**

- **Advanced Cooling Technologies, Inc.**

- 1046 New Holland Avenue

- Lancaster, PA 17601

- William Anderson (717) 205-0602

- 20-2-S3.06-4765 MSFC

- [3D Printed Loop Heat Pipe](#) [105]

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

- 2309 Pennsbury Court

- Schaumburg, IL 60194-3884

- Mukund Deshpande (630) 372-9650

- 20-2-S3.06-5609 GSFC

- [Advanced Survivable Thermal Control Material Systems for Aggressive Planetary Dusty Environments](#) [106]

- **Creare, LLC**

- 16 Great Hollow Road

- Hanover, NH 3755

- Robert Kline-Schoder (603) 640-2487

- 20-2-Z2.01-5014 JPL

- [Deployable, Lightweight, Freeze-Tolerant Radiator For Two Phase Thermal Management](#) [107]

- **ThermoAnalytics, Inc.**

- 23440 Airpark Boulevard

- Calumet, MI 49913

- Kevin Denomme (906) 482-9560

- 20-2-Z2.01-5687 JSC



[A SINDA-Compatible Human Thermal Model for Assessing Crew-Induced Loads](#) [108]

- **Focus Area 18 Air Vehicle Technology (15)**

- **Aerodyne Research, Inc.**

- 45 Manning Road

- Billerica, MA 1821

- David Gordon (978) 663-9500

- 20-2-A1.03-5238 LaRC

- [Aerosol Absorption Standard](#) [109]

- **Combustion Research and Flow Technology**

- 6210 Keller's Church Road

- Pipersville, PA 18947

- Neeraj Sinha (215) 766-1520

- 20-2-A1.05-4777 ARC

- [A Software Toolset for Synthetic Turbulence Generation at Zonal Hybrid RANS/LES Interfaces](#) [110]

- **Continuum Dynamics, Inc.**

- 34 Lexington Avenue

- Ewing, NJ 8618

- Melissa Kinney (609) 538-0444

- 20-2-A1.02-5961 GRC

- [Comprehensive Acoustic Analysis for Urban Air Mobility Vehicles](#) [111]

- **Cornerstone Research Group, Inc.**

- 510 Earl Boulevard

- Miamisburg, OH 45342

- Jackie Luce (937) 320-1877

- 20-2-A1.06-5176 ARC

- [Urban Air Mobility Passenger Ride Quality](#) [112]

- **Handix Scientific, LLC**

- 5485 Conestoga Court, Suite 104B

Boulder, CO 80301

Gavin McMeeking (970) 310-5186

20-2-A1.03-4754 LaRC

[A Counter for Ice Nucleated in Contrails Homogeneously and Heterogeneously \(CINCH2\)](#) [113]

**Hyper Tech Research, Inc.**

539 Industrial Mile Road

Columbus, OH 43228

Michael Tomsic (614) 481-8050

20-2-A1.04-6812 GRC

[High Power Density Induction Motors and Drives for Aircraft Propulsion](#) [114]

**Innovative Dynamics, Inc.**

2560 North Triphammer Road

Ithaca, NY 14850

Patricia Stein (607) 257-0533

20-2-A1.09-5690 GRC

[Low Power Rechargeable Anti-Icing System for Urban Air Mobility Vehicles](#) [115]

**Innovative Scientific Solutions, Inc.**

7610 McEwen Road

Dayton, OH 45459

Larry Goss (937) 429-4980

20-2-A1.08-4810 LaRC

[Global Skin Friction Sensor for Cryogenic Wind Tunnels](#) [116]

**Interdisciplinary Consulting Corporation**

5745 Southwest 75th Street, #364

Gainesville, FL 32608

Deontae Lafayette (407) 697-3697

20-2-A1.02-4999 GRC

[High-Temperature, Flat-Pack Optical Pressure Sensors for Combustion Noise Measurement](#) [117]

**Jackson Bond Enterprises, LLC**

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39 Industrial Park Road

Dover, NH 3820

Justin Bond (603) 833-0805

20-2-A1.10-5413 GRC

[Improved Abrasion Resistance of High Temperature Seals](#) [118]

**M4 Engineering, Inc.**

4020 Long Beach Boulevard

Long Beach, CA 90807

Kevin Roughen (562) 981-7797

20-2-A1.01-5804 LaRC

[Aeroelasticity and Aeroservoelastic Control](#) [119]

**Micro Cooling Concepts, Inc.**

7522 Slater Avenue, #122

Huntington Beach, CA 92647

David Underwood (714) 227-9025

20-2-A1.07-6115 GRC

[Lightweight Recuperator for Electrified Aircraft Propulsion](#) [120]

**SoftInWay, Inc.**

1500 District Ave

Burlington, MA 1803

Leonid Moroz (789) 685-4942

20-2-A1.07-6799 GRC

[Axial Compressor Map Generation Leveraging Autonomous Self-Training AI](#) [121]

**Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Peter Gondek (310) 679-2281

20-2-A1.06-4899 AFRC

[Use of Pilot Models to Support Design, Analysis, and Certification of UAM Vehicles](#) [122]

**ZONA Technology, Inc.**

9489 East Ironwood Square Drive

Scottsdale, AZ 85258

Jennifer Scherr (480) 945-9988

20-2-A1.01-4698 LaRC

[Generation of CFD-Based Structurally Independent Aerodynamic Influence Coefficient Matrix](#) [123]

• **Focus Area 19 Integrated Flight Systems (6)**

**GreenSight Agronomics, Inc.**

12 Channel Street, Suite 605

Boston, MA 2210

Joel Pedlikin (617) 633-4919

20-2-A2.02-5722 LaRC

[PreSound: UAV Diagnostic System Enabled by Acoustics and Vibration-Based Machine Learning](#) [124]

**KMB Telematics, Inc.**

1001 19th Street North, Suite 1200

Arlington, VA 22209

Bryan Cattle (703) 783-3377

20-2-A2.02-6569 AFRC

[Low SWAP-C Imaging Radar for Small Air Vehicle Sense and Avoid](#) [125]

**Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Chris Brinton (703) 980-3961

20-2-A2.02-4776 GRC

[Small UAS Collision Avoidance System](#) [126]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Amanda Moyer (540) 626-6266

20-2-A2.01-4968 AFRC

[Self-Diagnosing Nanomembrane Based Sensors for Flight Testing Applications](#) [127]

**Runtime Verification, Inc.**

102 East Main Street, Suite 500

Urbana, IL 61801

Patrick MacKay (217) 550-1558

20-2-A2.02-6033 ARC

[A Semantics-Based Verification Toolset for UAS Embedded Software](#) [128]

**Systems Technology, Inc.**

13766 Hawthorne Boulevard

Hawthorne, CA 90250

Peter Gondek (310) 679-2281

20-2-A2.01-4901 ARC

[A Portable Flight Test Display for UAM Means of Compliance Testings](#) [129]

• **Focus Area 20 Airspace Operations and Safety (6)**

**Architecture Technology Corporation**

9971 Valley View Road

Eden Prairie, MN 55344

Akeem Adewusi (952) 829-5864

20-2-A3.04-4563 ARC

[Vertiport Traffic Automation System](#) [130]

**ATAC**

2770 De La Cruz Boulevard

Santa Clara, CA 95050

Joe Isaacs (408) 736-2822

20-2-A3.04-5341 LaRC

[Low-Altitude Wind Hazard Alerting and Rerouting Service](#) [131]

**AvMet Applications**

1800 Alexander Bell Drive

Reston, VA 20191

Mark Klopfenstein (703) 453-9192

20-2-A3.02-5159 LaRC

[An Autonomous Severe Weather Trend Monitor for Improved System-Wide TFM Execution](#) [132]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

20-2-A3.02-5310 ARC

[Gaining Actionable Insights Through Neurocomputational Trajectory Segmentation and Clustering](#) [133]

**Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Chris Brinton (703) 980-3961

20-2-A3.01-4986 LaRC

[Cloud FMS](#) [134]

**Resilienx**

235 Harrison St, Ste #209

Syracuse, NY 13202

Ryan Pleskach (315) 286-1599

20-2-A3.03-4970 ARC

[Weather Sensor and Data Monitoring \(WSDM\) Service](#) [135]

• **Focus Area 21 Small Spacecraft Technologies (5)**

**American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

20-2-Z8.10-6875 ARC

[Customizable InterSystem Wireless Data/Energy Transfer \(CUSTOS-WiT\) System](#) [136]

**ExoTerra Resource, LLC**

7640 S Alkire Pl

Littleton, CO 80127

Michael VanWoerkom (303) 565-6898

20-2-Z8.09-5899 GRC

[SEP Upper Stage for Small Launch Vehicles](#) [137]

**Flight Works, Inc.**

17905 Sky Park Circle, Suite F

Irvine, CA 92614

Eric Besnard (949) 387-9552

20-2-Z8.09-5723 MSFC

[High Performance Pump-fed Lunar Transfer Stage for Small Launchers](#) [138]

**Nexolve Holding Company, LLC**

290 Dunlop Boulevard, Southwest, Suite 200

Huntsville, AL 35824

Paul DuPre (256) 836-7785

20-2-Z8.06-6392 MSFC

[Bi-Fold Fan DragSail with Surface Area Modulation Capability](#) [139]

**Relative Dynamics, Inc.**

6401 Golden Triangle Drive, Suite 201

Greenbelt, MD 20770

Kush Patel (301) 335-0491

20-2-Z8.02-4538 JPL

[Optical Communication Terminal](#) [140]

- **Focus Area 22 Low Earth Orbit Platform Utilization and Microgravity Research (2)**

**Space Micro, Inc.**

15378 Avenue of Science

San Diego, CA 92128

David Strobel (858) 332-0700

20-2-H8.01-4646 LaRC

[3U SpaceVPX Image Processing Computing Experiment on MISSE-FF](#) [141]

**Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

John Vellinger (812) 728-8133

20-2-H8.01-6461 JSC

[Biopharmaceutical Uniform Crystallization Test Bed](#) [142]

- **Focus Area 24 Dust Mitigation (3)**

**Astrobotic Technology, Inc.**

1016 North Lincoln Avenue

Pittsburgh, PA 15233

Michael Provenzano (845) 399-0843

20-2-Z13.02-6350 GRC

[High Power Near-Field Wireless Transfer for Dust Intensive Applications](#) [143]

**Hedgefog Research, Inc.**

1891 North Gaffey Street, Suite 224

San Pedro, CA 90731

Alex Kolessov (310) 935-2206

20-2-Z13.01-6503 KSC

[Bendable Electrodynamic Dust Shields](#) [144]

**Mainstream Engineering Corporation**



200 Yellow Place

Rockledge, FL 32955

Michael Rizzo (321) 631-3550

20-2-H3.03-5980 GRC

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