



## Proposals Selected for Negotiation of Contracts

- **ACENT Laboratories, LLC**

3 Scott Lane

Manorville, NY 11949

Anthony Castrogiovanni (631) 801-2616

09-2-A2.02-8867 LaRC

[A Compact Safe Cold-Start \(CS2\) System for Scramjets using Dilute Triethylaluminum Fuel Mixtures](#) [1]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

Jon Zuo (717) 717-6058

09-2-S3.03-8061 GRC

[Thermal Management System for Long-Lived Venus Landers](#) [2]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

Jon Zuo (717) 717-6058

09-2-A2.01-8833 ARC

[Interfacial Design of Composite Ablative Materials](#) [3]

- **Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

Jon Zuo (717) 717-6058

09-2-S3.02-8213 MSFC

[Loop Heat Pipe with Thermal Control Valve for Passive Variable Thermal Link](#) [4]

- **Advanced Dynamics, Inc.**

1500 Bull Lea Road, Suite 203

Lexington, KY 40511

Patrick Hu (859) 699-0441

09-2-A2.04-8558 LaRC

[State-of-the-art, Multi-Fidelity Modeling and Simulation \(M&S\) Tool for Nonlinear Aeroelasticity](#) [5]

- **Advanced Materials Technology, Inc.**

9324 Mandrake Court

Tampa, FL 33647

Akbar Ghaneh-Fard (813) 994-6360

09-2-X8.01-9482 KSC

[Manufacture of Novel Cryogenic Thermal Protection Materials](#) [6]

- **ADVR, Inc.**

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

09-2-S1.01-9529 LaRC

[Integrated Planar Lightwave Circuits for UV Generation and Phase Modulation](#) [7]

- **ADVR, Inc.**

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

09-2-S1.01-9175 GSFC

[Fiber Coupled Pulse Shaper for Sub-Nanosecond Pulse Lidar](#) [8]

- **ADVR, Inc.**

2310 University Way, Building 1-1

Bozeman, MT 59715

Betsy Heckel (406) 522-0388

09-2-O1.05-8381 GRC

[High Fidelity Down-Conversion Source for Secure Communications using On-Demand Single Photons](#) [9]

- **AlphaSense, Inc.**

28 Hillstream Road

Newark, DE 19711

Xin Zhang (302) 468-0980

09-2-O1.04-9344 JSC

[RF Front End Based on MEMS Components for Miniaturized Digital EVA Radio](#) [10]

- **Amplification Technologies, Inc.**

1400 Coney Island Avenue

Brooklyn, NY 11230

Avery Kornbluth (718) 951-8021

09-2-O1.06-8219 JPL

[High Performance Negative Feedback Near Infrared Single Photon Counting Detectors & Arrays](#) [11]

- **Analysis and Measurement Services Corporation**

9111 Cross Park Drive, Building A-100

Knoxville, TN 37923

Darrell Mitchell (865) 691-1756

09-2-A1.10-8957 GRC

[In-Flight and Pre-Flight Detection of Pitot Tube Anomalies](#) [12]

- **Analysis and Measurement Services Corporation**

9111 Cross Park Drive, Building A-100

Knoxville, TN 37923

Darrell Mitchell (865) 691-1756

09-2-X7.02-8908 GRC

[Autonomus I&C Maintenance and Health Monitoring System for Fission Surface Power](#) [13]

- **Analytical Mechanics Associates, Inc.**

303 Butler Farm Road, Suite 104A

Hampton, VA 23666

Anu Bedi (757) 757-0000

09-2-O4.04-9465 GRC

[Desensitized Optimal Filtering and Sensor Fusion Tool Kit](#) [14]

- **Anasphere, Inc.**

106 Pronghorn Trail

Bozeman, MT 59718

John Bognar (406) 406-9354

09-2-S3.09-8252 ARC

[Dropsonde System for Unmanned Aerial Vehicles](#) [15]

- **APECOR**

3259 Progress Drive, Suite A

Orlando, FL 32826

John Elmes (407) 275-1174

09-2-S3.05-8550 GRC

[High-Temperature, Wirebondless, Ultra-Compact Wide Bandgap Power Semiconductor Modules for Space Power Systems](#) [16]

- **Applied Poleramic, Inc.**

6166 Egret Court

Benicia, CA 94510

Brian Hayes (707) 707-6738

09-2-X5.03-9388 GRC

[Long Out-time, Out-of-Autoclave Cure Composites](#) [17]

- **Applied Sensor Research & Development Corporation**

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1195 Baltimore-Annapolis Blvd., Unit #2

Arnold, MD 21012

Jacqueline Hines (410) 410-4664

09-2-X5.01-8081 MSFC

[Passive Wireless Temperature Sensors with Enhanced Sensitivity and Range](#) [18]

- **Aries Design Automation, LLC**

2705 W Byron St

Chicago, IL 60618

Miroslav Velev (773) 773-6633

09-2-O1.03-8382 GRC

[Reconfigurable VLIW Processor for Software Defined Radio](#) [19]

- **Arkansas Power Electronics International, Inc.**

535 W. Research Center Blvd., Suite 209

Fayetteville, AR 72701

Sharmila Mounce (479) 443-5759

09-2-S3.04-8940 GRC

[Silicon Carbide \(SiC\) Power Processing Unit \(PPU\) for Hall Effect Thrusters](#) [20]

- **ArkLight**

3210 N. Bay Hill Drive

Center Valley, PA 18034

Yuliya Zotova (484) 547-5375

09-2-S1.01-9879 LaRC

[Frequency Up-Conversion Detection System with Single Photon Sensitivity within 1-1.8](#) [21]

- **Arradiance, Inc.**

142 North Road

Sudbury, MA 01776

Ken Stenton (978) 978-8291

09-2-S1.05-9730 GSFC

[Functionalized Nano-Film Microchannel Plate: A Single High Aspect Ratio Device for High Resolution, Low Noise Astronomical Imaging](#) [22]

- **Aspen Aerogels, Inc.**

30 Forbes Road, Bldg. B

Northborough, MA 01532

Kevin Schmidt (508) 691-1161

09-2-X8.01-8579 MSFC

[Hybrid Aerogel-MLI Insulation System for Cryogenic Storage in Space Applications](#) [23]

- **Astrobotic Technology, Inc.**

4551 Forbes Avenue

Pittsburgh, PA 15213

David Gump (703) 703-9616

09-2-X6.01-9100 KSC

[Lightweight Robotic Excavation](#) [24]

- **Atmospheric Observing Systems, Inc.**

1930 Central Avenue, Suite A

Boulder, CO 80301

Eva Forberger (303) 303-3389

09-2-S1.08-9355 JPL

[Calibration/Validation Technology for the CO2 Satellite](#) [25]

- **Aurora Flight Sciences Corporation**

9950 Wakeman Drive

Manassas, VA 20110

Scott Hart (617) 617-0536

09-2-S5.04-9755 JPL

[SPHERES MOSR Rendezvous and Docking with the OS \(RDOS\)](#) [26]

- **Aurora Flight Sciences Corporation**

9950 Wakeman Drive

Manassas, VA 20110

Scott Hart (617) 617-0536

09-2-X11.02-9753 GRC

[Space Suit Simulator \(S3\) for Partial Gravity EVA Experimentation and Training](#) [27]

- **Autonomous Exploration, Inc.**

385 High Plain Road

Andover, MA 01810

Julian Center (978) 269-4120

09-2-O4.03-9337 GRC

[Advanced Bayesian Methods for Lunar Surface Navigation](#) [28]

- **Baker-Calling, Inc.**

836 Brookside Drive

Ann Arbor, MI 48105

Karl Grosh (734) 645-0571

09-2-A4.01-8257 LaRC

[Piezoelectric MEMS Microphones for Ground Testing of Aeronautical Systems](#) [29]

- **Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 973-1215

09-2-O3.01-8967 GRC

[Tactile Data Entry System](#) [30]

- **Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 434-1215

09-2-A1.03-8806 GRC

[DARWIN-HC: A Tool to Predict Hot Corrosion of Nickel-Based Turbine Disks](#) [31]

- **Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 434-1215

09-2-A1.14-8756 LaRC

[A Software-Assurance Design Approach for NextGen Enabling Technologies](#) [32]

- **Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 434-1215

09-2-A1.05-8718 LaRC

[Simulator Evaluation of a Joint Human/Automated Upset Recovery System and Training Aid](#) [33]

- **Barron Associates, Inc.**

1410 Sachem Place, Suite 202

Charlottesville, VA 22901

Connie Hoover (434) 434-1215

09-2-A1.06-8711 ARC

[Integrated Design and Analysis Environment for Safety Critical Human-Automation Systems](#) [34]

- **Bear Engineering**

2415 Two Turtles Road

Maidens, VA 23102

Karron Myrick (804) 239-7221

09-2-S5.03-9737 JPL

[High Torque, Direct Drive Electric Motor](#) [35]



- **Black Forest Engineering, LLC**

P.O. Box 8059

Colorado Springs, CO 80933

Stephen Van Duyne (719) 593-9501

09-2-S1.09-8528 JPL

[Thermopile Detector Radiation Hardened Readout](#) [36]

- **Blue Ridge Research and Consulting**

13 1/2 W. Walnut Street

Asheville, NC 28801

Bruce Ikelheimer (828) 252-2209

09-2-O2.02-8697 SSC

[Energy-Based Acoustic Measurement System for Rocket Noise](#) [37]

- **Blue Sun Enterprise, Inc.**

1942 Broadway Street, Suite 314

Boulder, CO 80302

Christopher Grasso (720) 394-8897

09-2-S5.04-8643 JPL

[Reactive Rendezvous and Docking Sequencer](#) [38]

- **Boston Micromachines Corporation**

30 Spinelli Place

Cambridge, MA 02138

Paul Bierden (617) 868-4178

09-2-S2.02-9231 JPL

[Enhanced Fabrication Processes Development for High Actuator Count Deformable Mirrors](#) [39]

- **Boston Micromachines Corporation**

30 Spinelli Place

Cambridge, MA 02138

Paul Bierden (617) 868-4178

09-2-S2.02-9229 JPL

[Compact Low-Power Driver for Deformable Mirror Systems](#) [40]

- **Boulder Nonlinear Systems, Inc.**

450 Courtney Way, Unit 107

Lafayette, CO 80026

Mark Tanner (303) 303-0077

09-2-S1.08-8772 GSFC

[Hyperspectral Image Projector with Polarization Capability](#) [41]

- **Busek Co., Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 655-5565

09-2-S2.01-9277 JPL

[Miniaturized Low-Power Piezo Microvalve for NanoSat and CubeSat Propulsion](#) [42]

- **Busek Co., Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 655-5565

09-2-S3.04-8809 GRC

[High Efficiency Hall Thruster Discharge Power Converter](#) [43]

- **Busek Co., Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 655-5565

09-2-S3.08-8312 AFRC

[Magnesium Based Rockets for Martian Exploration](#) [44]

- **Busek Co., Inc.**

11 Tech Circle

Natick, MA 01760

Judy Budny (508) 655-5565

09-2-S3.04-8131 GRC

[Low Mass Low Power Hall Thruster System](#) [45]

- **Carbon-Carbon Advanced Technologies, Inc.**

4704 Eden Road

Kennedale, TX 76060

James Thompson (817) 985-2500

09-2-X10.01-8831 GRC

[Carbon-Carbon High Melt Coating for Nozzle Extensions](#) [46]

- **Cbana Laboratories**

2021 South First Street, Suite 206

Champaign, IL 61820

Timothy Hoerr (217) 333-6841

09-2-X2.03-8721 JPL

[Micro GC's for Contaminant Monitoring in Spacecraft Air](#) [47]

- **CFD Research Corp.**

215 Wynn Dr.

Huntsville, AL 35805

Silvia Harvey (256) 726-4858

09-2-X9.02-9443 ARC

[Integrated Inflatable Ballute for Planetary Entry](#) [48]

- **CFD Research Corp.**

215 Wynn Dr.

Huntsville, AL 35805

Silvia Harvey (256) 726-4858

09-2-X9.01-9440 ARC

[Computational Tool for Coupled Simulation of Nonequilibrium Hypersonic Flows with Ablation](#) [49]

- **CFD Research Corp.**

215 Wynn Dr.

Huntsville, AL 35805

Silvia Harvey (256) 726-4858

09-2-X1.03-9438 MSFC

[Improved Design of Radiation Hardened, Wide-Temperature Analog and Mixed-Signal Electronics](#) [50]

- **CFD Research Corp.**

215 Wynn Dr.

Huntsville, AL 35805

Silvia Harvey (256) 726-4858

09-2-S3.02-9436 GSFC

[Software for Automated Generation of Reduced Thermal Models for Spacecraft Thermal Control](#) [51]

- **CFD Research Corp.**

215 Wynn Dr.

Huntsville, AL 35805

Silvia Harvey (256) 726-4858

09-2-X2.03-9435 MSFC

[A Miniaturized Sensor for Microbial Monitoring of Spacecraft Water Environment](#) [52]

- **ChromoLogic, LLC**

133 N. Altadena Drive, Suite 307

Pasadena, CA 91107

Naresh Menon (626) 626-9974

09-2-X15.01-9505 JSC

[Novel Fluid Preservation System](#) [53]

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

15302 Bolsa Chica Street

Huntington Beach, CA 92649

Kouros Sariri (714) 373-8100

09-2-S5.05-9495 JPL

[A Compact, Radiation Hardened, Stable, Low Power, Programmable Crystal Oscillator for Extreme Temperature and High Reliability Space Application](#) [54]

- **Colorado Power Electronics, Inc.**

120 Commerce Drive, Unit 3

Fort Collins, CO 80524

Bryce Hesterman (970) 482-0191

09-2-S3.04-8077 GRC

[Low-Cost High-Performance Hall Thruster Support System](#) [55]

- **Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

Katherine Young (215) 766-1520

09-2-A2.05-9389 LaRC

[Uncertainty Quantification for Production Navier-Stokes Solvers](#) [56]

- **Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Barbara Agans (609) 538-0444

09-2-A2.09-8823 ARC

[Flight Adaptive Blade for Optimum Rotor Response \(FABFORR\)](#) [57]

- **Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Stephen Vining (937) 937-1877

09-2-X4.02-9611 MSFC

[Self-Deploying, Composite Habitats](#) [58]

- **Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Stephen Vining (937) 937-1877

09-2-A2.03-9603 LaRC

[Adaptive Drainage Slots for Acoustic Noise Attenuation](#) [59]

- **Cornerstone Research Group, Inc.**

2750 Indian Ripple Road

Dayton, OH 45440

Stephen Vining (937) 937-1877

09-2-X5.03-9295 LaRC

[Smart Tooling for Manufacturing Composites](#) [60]

- **Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

James Barry (603) 643-3800

09-2-S1.09-9459 MSFC

[Compact Vacuum Pump for Titan Lander Missions](#) [61]

- **Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

James Barry (603) 643-3800

09-2-X2.05-9202 JSC

[Nonventing Thermal and Humidity Control for EVA Suits](#) [62]

- **Creare, Inc.**

P.O. Box 71

Hanover, NH 03755

James Barry (603) 643-3800

09-2-S1.07-9643 GSFC

[Micromachined Active Magnetic Regenerator for Low Temperature Magnetic Coolers](#) [63]

- **Crystal Research, Inc.**

48501 Warm Springs Blvd., Suite 103

Fremont, CA 94539

Suning Tang (510) 445-0833

09-2-O1.02-9839 GRC

[A Multi-Band Photonic Phased Array Antenna for High-Data Rate Communication](#) [64]

- **Crystal Research, Inc.**

48501 Warm Springs Blvd., Suite 103

Fremont, CA 94539

Suning Tang (510) 445-0833

09-2-S1.09-9778 ARC

[An Infrared Fiber-Optic Raman Sensor for Field Detecting of Organic Biomarkers](#) [65]

- **Cybernet Systems Corporation**

727 Airport Boulevard

Ann Arbor, MI 48108

Daniel Jarrell (734) 668-2567

09-2-A1.02-8576 LaRC

[Automated NDE Flaw Mapping System](#) [66]

- **Deployable Space Systems**

955 Nysted Drive

Solvang, CA 93463

Brian Spence (805) 805-1313

09-2-S3.03-8863 GRC

[Lightweight IMM Multi-Junction Photovoltaic Flexible Blanket Assembly](#) [67]

- **Deployable Space Systems**

955 Nysted Drive

Solvang, CA 93463

Brian Spence (805) 805-1313

09-2-S1.06-8554 GSFC

[Elastic Deployable Composite Tubular Roll-Out Boom](#) [68]

- **Deployable Space Systems**

955 Nysted Drive

Solvang, CA 93463

Brian Spence (805) 805-1313

09-2-S3.03-9404 GRC

[Mass-Optimized Ultra Flex Solar Array with Integrated IMM Cell Flexible Blanket](#) [69]

- **Desert Beam Technologies, LLC**

3542 N. Geronimo Avenue

Tucson, AZ 85705

Jerome Moloney (520) 520-5786

09-2-S1.04-8479 JPL

[High Power Room Temperature Terahertz Local Oscillator](#) [70]

- **Discovery Semiconductors, Inc.**

119 Silvia Street

Ewing, NJ 08628

Abhay Joshi (609) 434-1311

09-2-S1.05-9827 GSFC

[Low-Noise, UV-to-SWIR Broadband Photodiodes for Large-Format Focal Plane Array Sensors](#) [71]



- **Dynamic Structures and Materials, LLC**

205 Williamson Square

Franklin, TN 37064

Jennifer Sturgis (615) 595-6665

09-2-X8.01-8727 JSC

[High Reliability Cryogenic Piezoelectric Valve Actuator](#) [72]

- **E-Beam, Inc.**

21070 SW Tile Flat Road

Beaverton, OR 97007

Bernard Vancil (503) 628-0703

09-2-O1.07-9345 JPL

[Nano-Particle Scandate Cathode for Space Communications Phase 2](#) [73]

- **EIC Laboratories, Inc.**

111 Downey Street

Norwood, MA 02062

David Rauh (781) 781-9450

09-2-X7.01-8568 GRC

[Mesoporous Silicon-Based Anodes for High Capacity, High Performance Li-ion Batteries](#) [74]

- **EIC Laboratories, Inc.**

111 Downey Street

Norwood, MA 02062

David Rauh (781) 781-9450

09-2-S1.11-8566 MSFC

[A Compact, Dual Excitation Raman Probe and Instrument for the Identification of Lunar Samples](#) [75]

- **Eikos, Inc.**

2 Master Drive

Franklin, MA 02038

Michelle LeMay (508) 508-0300

09-2-X6.02-8804 KSC

[Nanotube Electrodes for Dust Mitigation](#) [76]

- **ElectroChem, Inc.**

400 West Cummings Park

Woburn, MA 01801

Radha Jalan (781) 938-5530

09-2-X7.03-8742 JSC

[Novel Conductive Water Removal Membrane \(CWRM\) for PEM Passive Fuel Cell Operation](#) [77]

- **ElectroDynamic Applications, Inc.**

P.O. Box 131460

Ann Arbor, MI 48113

Jonathan Zagel (734) 786-1434

09-2-A2.06-8042 ARC

[Fiber-Coupled Spectrometer for TPS Materials](#) [78]

- **EM Photonics**

51 East Main Street, Suite 203

Newark, DE 19711

Eric Kelmelis (302) 456-9003

09-2-S6.01-9378 ARC

[GPU-Accelerated Sparse Matrix Solvers for Large-Scale Simulations](#) [79]

- **Emergent Space Technologies, Inc.**

6301 Ivy Lane, Suite 720

Greenbelt, MD 20770

Everett Cary (301) 345-1535

09-2-O4.02-8458 GSFC

[Multi-Purpose Radio Signal Generation System](#) [80]

- **Energid Technologies**

One Mifflin Place, Suite 400

Cambridge, MA 02138

Neil Tardella (617) 401-7090

09-2-X1.01-9674 ARC

[Robotic Vehicle Proxy Simulation](#) [81]

- **Fiber Materials, Inc.**

5 Morin St

Biddeford, ME 04005

David Audie (207) 207-5911

09-2-X9.01-8952 ARC

[Phenolic Impregnated Carbon Ablator \(PICA\) Gap Filler for Heat Shield Assemblies](#) [82]

- **Fiber Materials, Inc.**

5 Morin St

Biddeford, ME 04005

David Audie (207) 207-5911

09-2-X9.02-8827 ARC

[Multi-Layered Integrated Airframe System](#) [83]

- **Fibertek, Inc.**

510 Herndon Parkway

Herndon, VA 20170

Tracy Perinis (703) 471-7671

09-2-S1.01-8552 LaRC

[High Efficiency Laser for Aircraft/UAV and Space Lidar Missions](#) [84]

- **Firestar Engineering, LLC**

1122 Flightline Street, #76

Mojave, CA 93501

Greg Mungas (303) 626-8819

09-2-S3.08-8305 AFRC

[NOFBX Single-Stage-to-Orbit Mars Ascent Vehicle Engine](#) [85]

- **Florida Turbine Technologies, Inc.**

1701 Military Trail, Suite 110

Jupiter, FL 33458

Lloyd Mazer (561) 561-6337

09-2-X10.01-9575 MSFC

[Magnetically Actuated Seal](#) [86]

- **Folded Structures Company, LLC**

1142a Old York Road

Ringoes, NJ 08551

Daniel Kling (908) 237-1955

09-2-X4.02-8435 LaRC

[Expandable/Foldable Structures for Habitat](#) [87]

- **Genziko, Inc.**

3070 Windward Plaza, Suite F-275

Alpharetta, GA 30005

Craig Near (678) 558-7540

09-2-X5.01-8105 LaRC

[Frequency Steered Acoustic Transducer](#) [88]

- **Giner Electrochemical Systems, LLC**

89 Rumford Avenue

Newton, MA 02466

Anthony Vaccaro (781) 529-0504

09-2-X7.03-9874 JSC

[Water Management Membrane for Fuel Cells and Electrolyzers](#) [89]

- **Giner Electrochemical Systems, LLC**

89 Rumford Avenue

Newton, MA 02466

Anthony Vaccaro (781) 529-0504

09-2-X2.01-9873 MSFC

[Development of a Cathode Liquid Feed Electrolyzer to Generate 3,600 PSI Oxygen for Both Lunar and Space Microgravity Environments](#) [90]

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

7855 Walker Drive, Suite 200

Greenbelt, MD 20770

Jack Kelly (240) 542-1104

09-2-S6.03-8400 MSFC

[Systems and Services for Real-Time Web Access to NPP Data](#) [91]

- **Gloyer-Taylor Laboratories, LLC**

2212 Harton Blvd.

Tullahoma, TN 37388

Paul Gloyer (931) 393-5108

09-2-X10.01-9928 GRC

[UCDS Based Stable Injector Design](#) [92]

- **Honeybee Robotics Ltd.**

460 W. 34th Street

New York, NY 10001

Chris Chapman (212) 966-0661

09-2-S4.05-9322 ARC

[TORC-SP: High Torque, Low Jitter Scissored-Pair CMG Technology](#) [93]

- **Honeybee Robotics Ltd.**

460 W. 34th Street

New York, NY 10001

Chris Chapman (212) 966-0661

09-2-S5.02-9092 JPL

[Extreme Temperature Gearhead](#) [94]

- **Honeybee Robotics Ltd.**

460 W. 34th Street

New York, NY 10001

Chris Chapman (646) 459-7802

09-2-S5.03-9090 JPL

[Arm-Deployed Rotary-Percussive Coring Drill](#) [95]

- **Honeybee Robotics Ltd.**

460 W. 34th Street

New York, NY 10001

Chris Chapman (212) 966-0661

09-2-S1.11-9088 MSFC

[DIHeDRAL: Downhole Regolith Interrogation with Helium-Assisted Drill and LIBS](#) [96]

- **Honeybee Robotics Ltd.**

460 W. 34th Street

New York, NY 10001

Chris Chapman (212) 966-0661

09-2-X6.01-9794 KSC

[Parametric Optimization and Prediction Tool for Excavation and Prospecting Tasks](#) [97]

- **Hyper-Therm High-Temperature Composites**

18411 Gothard Street, Units B&C

Huntington Beach, CA 92648

Wayne Steffier (714) 375-4085

09-2-A2.01-9131 LaRC

[SiC Matrix Composites for High Temperature Hypersonic Vehicle Applications](#) [98]

- **Impact Technologies, LLC**

200 Canal View Boulevard

Rochester, NY 14623

Carol Marquardt (585) 627-1923

09-2-O4.05-9401 GSFC

[A Light Weight, Mini Inertial Measurement System for Position and Attitude Estimation on Dynamic Platforms](#) [99]

- **Impact Technologies, LLC**

200 Canal View Boulevard

Rochester, NY 14623

Carol Marquardt (585) 627-1923

09-2-X1.04-9306 ARC

[Fusion of Built in Test \(BIT\) Technologies with Embeddable Fault Tolerant Techniques for Power System and Drives in Space Exploration](#) [100]

- **Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 310-2011

09-2-X2.04-9618 JSC

[Nonflammable Crew Clothing Utilizing Phosphorus-Based Fire-Retardant Materials](#) [101]

- **Innosense, LLC**

2531 West 237th Street, Suite 127

Torrance, CA 90505

Kisholoy Goswami (310) 310-2011

09-2-O3.02-9623 KSC

[Polymer-Reinforced, Nonbrittle, Lightweight Cryogenic Insulation for Reduced Life-Cycle Costs](#) [102]

- **Innovative Engineering Solutions**

26200 Adams Avenue

Murrieta, CA 92562

Michael Gruszczynski (951) 951-7600

09-2-X10.01-9134 JSC

[Propellant Flow Actuated Piezoelectric Rocket Engine Igniter](#) [103]

- **Integrated Micro Sensors, Inc.**

10814 Atwell Drive

Houston, TX 77096

David Starikov (713) 748-7926

09-2-X5.03-9578 LaRC

[Drastic Improvements in Bonding of Fiber Reinforced Multifunctional Composites](#) [104]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 400

Rockville, MD 20855

Mark James (301) 294-5221

09-2-S6.02-8720 ARC

[A Sensor Management Tool for Use with NASA World Wind](#) [105]

- **Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 400

Rockville, MD 20855

Mark James (301) 294-5221

09-2-A3.02-8211 LaRC

[Integrated Testbed for Environmental Analysis of NextGen Concepts using ACES](#) [106]

- **International Scientific Technologies, Inc.**

P.O. Box 757

Dublin, VA 24084



Wanda Gibson (540) 540-1424

09-2-X4.01-8309 LaRC

[Multilayer Polymeric Shielding to Protect Humans from Galactic Cosmic Radiation](#) [107]

- **IST-Rolla**

11560 Forest Lake Drive

Rolla, MO 65401

Sivasubramanya Balakrishnan (573) 201-1068

09-2-O4.04-8246 JSC

[Advanced Filtering Techniques Applied to Spaceflight](#) [108]

- **Jansen's Aircraft Systems Controls, Inc.**

2303 W. Alameda Drive

Tempe, AZ 85282

Emerson Turner (602) 602-4156

09-2-A2.02-9291 GRC

[Novel Active Combustion Control Concept for High-Frequency Modulation of Atomized Fuel Flow](#) [109]

- **Kaitech, Inc.**

22 Mariners Drive

Marshfield, MA 02050

Richard Cox (781) 837-8465

09-2-S1.08-9836 SSC

[Water Properties Sensor](#) [110]

- **Lake Shore Cryotronics, Inc.**

575 McCorkle Blvd.

Westerville, OH 43082

Philip Swinehart (614) 891-2243

09-2-S1.04-8553 JPL

[Metal-Mesh Optical Filter Technology for Mid IR, Far IR, and Submillimeter](#) [111]

- **Los Gatos Research**

67 East Evelyn Avenue, Suite 3

Mountain View, CA 94041

Anthony OKeefe (808) 726-7022

09-2-X3.01-9113 JSC

[Novel Instrumentation for Lunar Regolith Oxygen Production Facilities](#) [112]

- **Luna Innovations Incorporated**

1 Riverside Circle, Suite 400

Roanoke, VA 24016

Shirley Evans (540) 540-8400

09-2-X7.02-9116 GRC

[High-Speed Neutron and Gamma Flux Sensor for Monitoring Surface Nuclear Reactors](#) [113]

- **Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Gloria Hisaw (979) 979-0017

09-2-X7.03-9598 JPL

[Advanced Oxygen Evolution Catalysts for PEM Electrolyzers](#) [114]

- **Makel Engineering, Inc.**

1585 Marauder Street

Chico, CA 95973

Susana Carranza (512) 512-0718

09-2-X13.03-9519 JSC

[Advanced Cookware and Techniques for Food Preparation at Reduced Pressure and Gravity](#) [115]

- **Masstech, Inc.**

6992 Columbia Gateway Drive, Suite 200

Columbia, MD 21046

Richard Lee (443) 539-1742

09-2-A3.02-8812 LaRC

[Lidar Wind Profiler for the NextGen Airportal](#) [116]

- **Materials Research and Design**

300 E. Swedesford Road

Wayne, PA 19087

Maisie Henry (610) 610-9000

09-2-S3.08-8144 MSFC

[Refractory Coated/Lined Low Density Structures](#) [117]

- **MaXentric Technologies**

2071 Lemoine Avenue, Suite 302

Fort Lee, NJ 07024

Houman Ghajari (858) 272-8800

09-2-O1.03-8119 GRC

[Fault Tolerant Software-Defined Radio on Manycore](#) [118]

- **Maxion Technologies, Inc.**

5000 College Avenue, Ste 3121

College Park, MD 20740

B. David Green (978) 978-0003

09-2-X2.04-8356 GRC

[A Quantum Cascade Laser-Based CO Sensor for Fire Warning](#) [119]

- **Mechanical Solutions, Inc.**

11 Apollo Drive

Whippany, NJ 07981

Michael Platt (973) 326-9920

09-2-A2.08-8224 GRC

[Design Environment for Multi-Fidelity and Multi-Disciplinary Components](#) [120]

- **Mechanical Solutions, Inc.**

11 Apollo Drive

Whippany, NJ 07981

Michael Platt (973) 326-9920

09-2-A4.01-8214 GRC

[Blade Vibration Measurement System for Unducted Fans](#) [121]

- **MesoScribe Technologies, Inc.**

7 Flowerfield, Suite 28

St. James, NY 11780

Jeffrey Brogan (631) 686-5710

09-2-X5.01-8826 LaRC

[Composite Structure Monitoring using Direct Write Sensors](#) [122]

- **MetroLaser, Inc.**

8 Chrysler

Irvine, CA 92618

Christina Arnold (949) 949-0688

09-2-A4.01-8856 GRC

[A Novel, Portable, Projection, Focusing Schlieren System](#) [123]

- **Metron Aviation, Inc.**

45300 Catalina Court, Suite 101

Dulles, VA 20166

Bruno Salamon (703) 234-0819

09-2-A3.01-8821 ARC

[Unmanned Aerial Vehicle Integration into the NAS](#) [124]

- **Metron Aviation, Inc.**

45300 Catalina Court, Suite 101

Dulles, VA 20166

Bruno Salamon (703) 234-0819

09-2-A3.01-8820 ARC

[Market Mechanisms for Airspace Flow Program Slots](#) [125]

- **Michigan Aerospace Corporation**

1777 Highland Drive, Suite B

Ann Arbor, MI 48108

John Dodds (734) 975-8777

09-2-A1.04-9447 LaRC

[Molecular Air Data Clear Air Turbulence Sensor: MADCAT](#) [126]

- **Microcosm, Inc.**

4940 W. 147th Street

Hawthorne, CA 90250

Lynn Shimohara (310) 219-2700

09-2-S3.04-9659 GRC

[Unibody Composite Pressurized Structure \(UCPS\) for In-Space Propulsion](#) [127]

- **Microcosm, Inc.**

4940 W. 147th Street

Hawthorne, CA 90250

Lynn Shimohara (310) 219-2700

09-2-O4.02-9182 GSFC

[X-ray Detection and Processing Models for Spacecraft Navigation and Timing](#) [128]

- **Microcosm, Inc.**

4940 W. 147th Street

Hawthorne, CA 90250

Lynn Shimohara (310) 219-2700

09-2-O4.04-9179 GSFC

[Deep Space Navigation and Timing Architecture and Simulation](#) [129]

- **MicroLink Devices**

6457 Howard Street

Niles, IL 60714

Noren Pan (847) 588-3001

09-2-S3.03-8143 GRC

[High Radiation Resistance Inverted Metamorphic Solar Cell](#) [130]

- **Milli Sensor Systems and Actuators, Inc.**

93 Border Street

West Newton, MA 02465

Nunzi Sapuppo (617) 617-4872

09-2-S4.05-8441 ARC

[Reaction Wheel with Embedded MEMS IMU](#) [131]

- **Mosaic ATM, Inc.**

801 Sycolin Road, Suite 212

Leesburg, VA 20175

Chris Stevenson (800) 405-8576

09-2-A3.02-9691 ARC

[ATC Operations Analysis via Automatic Recognition of Clearances](#) [132]

- **MSNW, LLC**

8551 154th Avenue NE

Redmond, WA 98052

John Slough (425) 867-8900

09-2-S3.04-9095 JPL

[Low Mass Electromagnetic Plasmoid Thruster with Integrated PPU](#) [133]

- **MTECH Laboratories, LLC**

P.O. Box 227

Ballston Spa, NY 12020

William Wilson (518) 518-6436

09-2-A2.01-9471 GRC

[Lightweight, Efficient Power Converters for Advanced Turboelectric Aircraft Propulsion Systems](#) [134]

- **N&R Engineering**

6659 Pearl Road, #201

Parma Heights, OH 44130

Vinod Nagpal (440) 845-7020

09-2-A2.10-9062 GRC

[Design Concepts for Cooled Ceramic Matrix Composite Turbine Vanes](#) [135]

- **Nanotrons**

12A Cabot Road

Woburn, MA 01801

Jeanne Hladky (781) 781-6500

09-2-X5.02-8504 LaRC

[Functionalized Graphene Sheets-Polymer Based Nanocomposite for Cryotanks](#) [136]

- **Nastec, Inc.**

5310 West 161 Street, Suite G

Brook Park, OH 44142

Richard Klein (216) 464-8388

09-2-A1.08-9406 GRC

[Aircraft Engine Life-Consumption Monitoring for Real-Time Reliability Determination](#) [137]

- **NEI Corporation**

201 Circle Drive N., Suite 102/103

Piscataway, NJ 08854

Ganesh Skandan (732) 868-3141

09-2-X7.01-8216 JPL

[High Energy Density Li-Ion Batteries Designed for Low Temperature Applications](#) [138]

- **NP Photonics, Inc.**

9030 S. Rita Road

Tucson, AZ 85747

James Fountain (520) 799-7424

09-2-S1.01-8433 LaRC

[Tunable Narrow Linewidth, Low Noise 2.05 Micron Single Frequency Seeder Laser](#) [139]

- **NP Photonics, Inc.**

9030 S. Rita Road

Tucson, AZ 85747

James Fountain (520) 799-7424

09-2-S1.01-8403 LaRC

[High Power Narrow Linewidth 1.26 Micron Ho-Doped Fiber Amplifier](#) [140]

- **Numerica Corporation**

4850 Hahns Peak Drive, Suite 200

Loveland, CO 80538

Jeff Poore (970) 461-2000

09-2-A3.01-8419 ARC

[Estimation and Prediction of Unmanned Aerial Vehicle Trajectories](#) [141]

- **Numerica Corporation**

4850 Hahns Peak Drive, Suite 200

Loveland, CO 80538

Jeff Poore (970) 461-2000

09-2-O4.04-8416 GSFC

[Continuation Methods and Non-Linear/Non-Gaussian Estimation for Flight Dynamics](#) [142]

- **Nuvotronics, LLC**

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7586 Old Peppers Ferry Road

Radford, VA 24141

Scott Meller (800) 341-2333

09-2-S1.02-8927 JPL

[3D High Density Wave Interconnects](#) [143]

- **Optical Engines, Inc.**

5412 S IL Route 31, Suite 5

Crystal Lake, IL 60012

Donald Sipes (815) 815-8303

09-2-O1.06-8122 JPL

[High Power Uplink Amplifier for Deep Space Communications](#) [144]

- **OptiGrate Corporation**

3267 Progress Drive

Orlando, FL 32826

Igor Ciapurin (407) 381-4115

09-2-S1.01-8384 GSFC

[Monolithic Rare Earth Doped PTR Glass Laser](#) [145]

- **Optimal Synthesis, Inc.**

95 First Street, Suite 240

Los Altos, CA 94022

Victor Cheng (650) 650-8585

09-2-A3.01-8549 ARC

[Stochastic Queuing Model Analysis to Support Airspace Super Density Operations \(ASDO\)](#) [146]

- **Optimal Synthesis, Inc.**

95 First Street, Suite 240

Los Altos, CA 94022

P. Menon (650) 650-8585

09-2-A3.01-8137 LaRC

[Statistical Decision Support Tools for System-Oriented Runway Management](#) [147]

- **Optimal, LLC**

181 Summertree Road

Starkville, MS 39759

Greg Burgreen (662) 662-2286

09-2-A2.08-8824 LaRC

[Discrete Geometry Toolkit for Shape Optimization](#) [148]

- **Optimax Systems, Inc.**

6367 Dean Parkway

Ontario, NY 14519

Thomas Kelly (585) 217-0729

09-2-S2.05-9386 MSFC

[Removing Mid-Spatial Frequency Errors with VIBE](#) [149]

- **ORB Analytics, LLC**

5 Hillside Road

Carlisle, MA 01741

Samuel MacMullan (978) 501-3161

09-2-O1.01-9742 JPL

[Minimizing Implementation Loss in Soft-Decision GMSK Demodulators](#) [150]

- **Orbital Technologies Corporation**

Space Center, 1212 Fourier Drive

Madison, WI 53717

Eric Rice (608) 608-2730

09-2-X10.01-9473 GRC

[Non-Toxic Ionic Liquid Fuels for Exploration Applications](#) [151]

- **Orbital Technologies Corporation**

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Space Center, 1212 Fourier Drive

Madison, WI 53717

Thomas Crabb (608) 608-5000

09-2-X2.02-9461 ARC

[High Efficiency, High Output Plastic Melt Waste Compactor \(HEHO-PMWC\)](#) [152]

- **Orbital Technologies Corporation**

Space Center, 1212 Fourier Drive

Madison, WI 53717

Eric Rice (608) 608-2760

09-2-X3.01-9415 KSC

[Advanced Carbothermal Electric Reactor](#) [153]

- **Pacific Microchip Corp.**

3916 Sepulveda Blvd. #108

Culver City, CA 90230

Dalius Baranauskas (310) 940-3083

09-2-S1.03-9002 JPL

[Low Power 2-Bit ADC Array with Serial Output](#) [154]

- **Paragon Space Development Corporation**

3481 E. Michigan Street

Tucson, AZ 85714

Carole Hammond (520) 382-4814

09-2-X4.02-9770 LaRC

[Verification and Validation of an Innovative Inflatable Structure](#) [155]

- **Paragon Space Development Corporation**

3481 E. Michigan Street

Tucson, AZ 85714

Carole Hammond (520) 382-4814

09-2-X2.05-9667 JSC

[Integrated Sublimator Driven Coldplate for use in Active Thermal Control System](#) [156]

- **Paragon Space Development Corporation**

3481 E. Michigan Street

Tucson, AZ 85714

Carole Hammond (520) 382-4814

09-2-X3.01-8530 JSC

[Contaminant Robust System for Oxygen Production from Lunar and Martian Resources](#) [157]

- **Pioneer Astronautics**

11111 W. 8th Avenue, Unit A

Lakewood, CO 80215

Robert Zubrin (303) 303-0890

09-2-X3.02-9169 GRC

[Lunar Organic Waste Reformer](#) [158]

- **Polatomic, Inc.**

1810 N. Glenville Drive, #116

Richardson, TX 75081

Jean Isham (972) 972-0099

09-2-S1.06-8420 GSFC

[Miniature Laser Magnetometer \(MLM\)](#) [159]

- **Powdermet, Inc.**

24112 Rockwell Drive

Euclid, OH 44117

Andrew Sherman (216) 404-0053

09-2-X4.01-8079 MSFC

[Improved Metal-Polymeric Laminate Radiation Shielding](#) [160]

- **Precision Combustion, Inc.**

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410 Sackett Point Road

North Haven, CT 06473

Olga Furmanek (203) 203-3700

09-2-X2.01-8688 MSFC

[Novel Catalytic Reactor for CO2 Reduction via Sabatier Process](#) [161]

- **Princeton Lightwave, Inc.**

2555 Route 130 South, Suite 1

Cranbury, NJ 08512

Mark Itzler (609) 495-2551

09-2-O1.06-9687 JPL

[NFAD Arrays for Single Photon Optical Communications at 1.5 um](#) [162]

- **Princeton Optronics, Inc.**

1 Electronics Drive

Mercerville, DE 08619

Narayan Bhatta (609) 584-9696

09-2-S1.01-9431 LaRC

[Narrow Wavelength, Frequency Modulated Source at 1.5 Wavelength](#) [163]

- **Pulsar Informatics, Inc.**

3624 Market Street, Suite 5E

Philadelphia, PA 19104

Daniel Mollicone (215) 520-2630

09-2-X12.02-9125 JSC

[Individualized Behavioral Health Monitoring Tool](#) [164]

- **Pyxisvision Incorporated**

9801 Nugget Court

Bristow, VA 20136

Anthony Slotwinski (703) 703-5901

09-2-S2.05-8780 GSFC

[Coherent Laser Radar Metrology System for Large Scale Optical Systems](#) [165]

- **Q-Peak, Inc.**

135 South Road

Bedford, MA 01730

Peter Moulton (781) 275-9535

09-2-S1.01-9210 LaRC

[Pulsed, Single-Frequency, 2-um Seed Source for Coherent LIDAR Applications](#) [166]

- **QM Power, Inc.**

441 Marlborough Street, #2

Boston, MA 02115

Patrick Piper (857) 857-3100

09-2-X4.03-8928 LaRC

[Lightweight High Efficiency Electric Motors and Actuators for Low Temperature Mobility and Robotics Applications](#) [167]

- **Qualtech Systems, Inc.**

99 East River Drive

East Hartford, CT 06108

Sudipto Ghoshal (860) 761-9341

09-2-X1.01-8239 ARC

[Automation of Health Management, Troubleshooting and Recovery in Lunar Outpost](#) [168]

- **Quest Product Development Corporation**

6833 Joyce Street

Arvada, CO 80007

Alan Kopelove (303) 303-5088

09-2-X8.01-8258 GRC

[Wrapped-MLI: Thermal Insulation for Cryogenic Piping](#) [169]

- **Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 02472

Gerald Entine (617) 617-6800

09-2-X14.01-9159 ARC

[Fast Neutron Dosimeter for the Space Environment](#) [170]

- **Redondo Optics, Inc.**

811 N. Catalina Avenue, Suite 1100

Redondo Beach, CA 90277

Edgar Mendoza (310) 292-7673

09-2-S1.11-8154 MSFC

[Remote UV Fluorescence Lifetime Spectrometer](#) [171]

- **Ridgetop Group, Inc.**

6595 North Oracle Road

Tucson, AZ 85704

Milena Thompson (520) 520-3300

09-2-X1.03-9937 MSFC

[Wide Temperature Rad-Hard ASIC for Process Control of a Fuel Cell System](#) [172]

- **Ridgetop Group, Inc.**

6595 North Oracle Road

Tucson, AZ 85704

Milena Thompson (520) 520-3300

09-2-S1.02-9911 JPL

[High-Speed, Low-Power ADC for Digital Beam Forming \(DBF\) Systems](#) [173]

- **Ridgetop Group, Inc.**

6595 North Oracle Road

Tucson, AZ 85704

Milena Thompson (520) 520-3300

09-2-A1.12-9941 ARC

[Physical Modeling for Anomaly Diagnostics and Prognostics](#) [174]

- **Ridgetop Group, Inc.**

6595 North Oracle Road

Tucson, AZ 85704

Milena Thompson (520) 520-3300

09-2-A2.09-9940 GRC

[Embedded Data Acquisition Tools for Rotorcraft Diagnostic Sensors](#) [175]

- **Seacoast Science, Inc.**

2151 Las Palmas Drive, Suite C

Carlsbad, CA 92011

Loius Haerle (760) 760-0083

09-2-S1.08-9140 ARC

[Atmospheric Aerosol Analysis using Lightweight Mini GC](#) [176]

- **SEAKR Engineering, Inc.**

6221 S. Racine Circle

Centennial, CO 80111

Scott Anderson (303) 790-8499

09-2-S4.01-9047 ARC

[Very Dense High Speed 3u VPX Memory and Processing Space Systems](#) [177]

- **SJT Micropower**

16411 N. Skyridge Lane

Fountain Hills, AZ 85268

Trevor Thornton (480) 510-0229

09-2-X1.03-9811 GSFC

[Unconditionally Stable Low Dropout Regulators for Extreme Environments](#) [178]



- **Southwest Sciences, Inc.**

1570 Pacheco Street, Suite E-11

Santa Fe, NM 87505

Alan Stanton (505) 505-1322

09-2-S1.08-9682 GSFC

[Compact Instrument for Measurement of Atmospheric Carbon Monoxide](#) [179]

- **Space Micro, Inc.**

10401 Roselle Street, Suite 400

San Diego, CA 92121

David Strobel (858) 858-0700

09-2-S3.01-9888 GSFC

[Space Qualified, Radiation Hardened, Dense Monolithic Flash Memory](#) [180]

- **Sporian Microsystems, Inc.**

515 Courtney Way, Suite B

Lafayette, CO 80026

Michael Usrey (303) 516-9075

09-2-A2.02-9410 GRC

[Ultra High Temperature Capacitive Pressure Sensor](#) [181]

- **Starodub, Inc.**

3504 Littledale Road

Kensington, MD 20895

Nicolas Gagarin (301) 929-0964

09-2-S6.03-8921 GSFC

[Non-Linear Non Stationary Analysis of Two-Dimensional Time-Series Applied to GRACE Data](#) [182]

- **Stottler Henke Associates, Inc.**

951 Mariner's Island Blvd., Suite 360

San Mateo, CA 94404

Nathaniel Henke (650) 931-2719

09-2-X1.01-8666 ARC

[PM/IDE - An Integrated Development Environment for Planning Models](#) [183]

- **Superconducting Systems, Inc.**

5 Fortune Drive

Billerica, MA 01821

Shahin Pourrahipi (978) 330-3021

09-2-S1.07-8699 GSFC

[ADR Magnets Operating at 30-40K](#) [184]

- **Surface Optics Corporation**

11555 Rancho Bernardo Road

San Diego, CA 92127

Julie Anderson (858) 858-7404

09-2-O1.02-8188 JPL

[Stress-Matched RF and Thermal Control Coatings for Membrane Antennas](#) [185]

- **Systems Technology, Inc.**

13766 Hawthorne Blvd.

Hawthorne, CA 90250

Suzie Fosmore (310) 679-2281

09-2-A1.07-9237 AFRC

[Real-Time Methods for Adaptive Suppression of Adverse Aeroservoelastic Dynamics](#) [186]

- **Systems Technology, Inc.**

13766 Hawthorne Blvd.

Hawthorne, CA 90250

Cecy Pelz (310) 679-2281

09-2-A1.09-9235 AFRC

[Smart Adaptive Flight Effective Cue \(SAFE-Cue\)](#) [187]

- **TDA Research, Inc.**

12345 W. 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2347

09-2-X2.01-8518 JSC

[CO2 Removal from Mars EMU](#) [188]

- **Tech-X Corporation**

5621 Arapahoe Avenue, Suite A

Boulder, CO 80303

Leslie Rosczyk (720) 720-1855

09-2-A2.05-9058 GRC

[Simulation Tool for Dielectric Barrier Discharge Plasma Actuators at Atmospheric and Sub-Atmospheric Pressures](#) [189]

- **Tech-X Corporation**

5621 Arapahoe Avenue, Suite A

Boulder, CO 80303

Leslie Rosczyk (720) 720-1855

09-2-S6.05-8885 GSFC

[Fortran Testing and Refactoring Infrastructure](#) [190]

- **Techno Planet Incorporated**

17340 Rayen Street

Northridge, CA 91325

Scott Stanley (818) 709-7815

09-2-S5.02-8626 JPL

[Sealed Planetary Return Canister \(SPRC\)](#) [191]

- **TechnoScience Corporation**

P.O. Box 60658

Palo Alto, CA 94306

Jam Farhoomand (650) 650-9833

09-2-S1.04-9317 JPL

[An Implant-Passivated Blocked Impurity Band Germanium Detector for the Far Infrared](#) [192]

- **Techshot, Inc.**

7200 Highway 150

Greenville, IN 47124

Mark Deuser (812) 923-9591

09-2-O3.03-9290 GRC

[Observation Platform for Dynamic Biomedical and Biotechnology Experiments using the ISS Light Microscopy Module](#) [193]

- **The IIIAN Company, LLC**

2700 East 28th Street, Suite 120

Minneapolis, MN 55406

Jody Klaassen (612) 612-1249

09-2-O1.07-9857 JPL

[GaN Bulk Growth and Epitaxy from Ca-Ga-N Solutions](#) [194]

- **TiER1 Performance Solutions**

6 E. 5th Street, Suite 400

Covington, KY 41011

Terence Andre (859) 663-2115

09-2-X13.01-9342 JSC

[Human Factors Analysis Support Tool \(H-FAST\)](#) [195]

- **Tietronix Software, Inc.**

1331 Gemini Avenue, Suite 300

Houston, TX 77058

Victor Tang (281) 404-7222

09-2-X1.01-8474 JSC

[Executable SysML Model Development Accelerator for the Constellation Program](#) [196]

- **Touchstone Research Laboratory, Ltd.**

The Millennium Centre, 1142 Middle Creek Road

Triadelphia, WV 26059

Elizabeth Kraftician (304) 547-5800

09-2-X5.03-8372 MSFC

[Multifunctional Metal Matrix Composite Filament Wound Tank Liners](#) [197]

- **TRAC Labs, Inc.**

100 N.E. Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7884

09-2-X6.01-8031 JSC

[Advanced Modeling Tools for Controlling Complex Assets Across Time Delay](#) [198]

- **Transition45 Technologies, Inc.**

1963 North Main Street

Orange, CA 92865

Edward Chen (714) 283-2118

09-2-A2.01-8248 GRC

[Shape Memory Alloy-Based Periodic Cellular Structures](#) [199]

- **Translume, Inc.**

655 Phoenix Drive

Ann Arbor, MI 48108

Eric Jacobson (734) 734-6371

09-2-S1.08-9774 GSFC

[Small Submersible Robust Microflow Cytometer for Quantitative Detection of Phytoplankton](#) [200]

- **Trex Enterprises Corporation**

10455 Pacific Center Court

San Diego, CA 92121

Mary MacDonald (858) 646-5490

09-2-S2.04-9341 MSFC

[Minimally Machined HoneySiC Mirrors for Low Areal Cost and Density](#) [201]

- **Ultracor**

136 Wright Brothers Avenue

Livermore, CA 94551

Stan Wright (925) 925-3010

09-2-A2.01-9895 AFRC

[SiC-SiC and C-SiC Honeycomb for Advanced Flight Structures](#) [202]

- **Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 818-0236

09-2-X10.01-8636 GRC

[Low-Cost, High-Performance Combustion Chamber for LOX/CH4 Propulsion, Phase II](#) [203]

- **Ultramet**

12173 Montague Street

Pacoima, CA 91331

Craig Ward (818) 818-0236

09-2-X8.01-8628 MSFC

[Aerogel-Filled Foam Core Insulation for Cryogenic Propellant Storage, Phase II](#) [204]

- **UMPQUA Research Company**

P.O. Box 609

Myrtle Creek, OR 97457

John Aker (541) 541-2655

09-2-X2.02-9562 MSFC

[Advanced Aqueous Phase Catalyst Development using Combinatorial Methods](#) [205]

- **Vanilla Aircraft, LLC**

2822 Mary Street

Falls Church, VA 22042

Jeremy Novara (703) 703-9070

09-2-S3.09-8087 GSFC

[Cold Weather Technology Development for Low Altitude Ultra-Long Endurance Applications](#) [206]

- **Ventions, LLC**

1142 Howard Street

San Francisco, CA 94103

Amit Mehra (202) 202-2846

09-2-X10.01-9015 MSFC

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