



## Proposals Selected for Negotiation of Contracts

Expand All

- **Focus Area 2 Power, Energy and Storage (3)**

**Alphacore, Inc.**

398 South Mill Avenue, Suite 304

Tempe, AZ 85281

Kimberlee Olson (480) 494-5618

**Arizona State University**

650 E Tyler Mall Goldwater Center # 208

Tempe, AZ 85281

18-1-T3.02-2213 GRC

[Intelligent Power Source Reliability Monitoring and Failure Mitigation System](#) [1]

**Phoenix Analysis and Design Technologies**

7755 South Research Drive, Suite 110

Tempe, AZ 85284

Ward Rand (480) 813-4884

**Arizona State University-Polytechnic**

P.O. Box 876011

Tempe, AZ 85287

18-1-T3.03-3883 GRC

[Bio-inspired Cellular Material Optimization for the Design of Additively Manufactured Multi-Functional Lightweight Structures](#) [2]

**Stottler Henke Associates, Inc.**

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402-2516

Nate Henke (650) 931-2719

**Montana State University**

Montana State University

Bozeman, MT

18-1-T3.02-1093 GRC

[Intelligent, Autonomous, Distributed Vehicle and Electrical Power System Management](#) [3]

• **Focus Area 3 Autonomous Systems for Space Exploration (7)**

**Astrobotic Technology, Inc.**

2515 Liberty Avenue

Pittsburgh, PA 15222

Fraser Kitchell (206) 470-9055

**Astrobotic Technology, Inc.**

2515 Liberty Avenue

Pittsburgh, PA 15222

18-1-T4.03-1473 JPL

[Mission Coordination and Co-Localization for Planetary Rover Teams](#) [4]

**Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

Michael Pruzan (540) 769-8430

**Edison Welding Institute**

1250 Arthur E Adams Drive

Columbus, OH 43221

18-1-T13.01-1313 SSC

[Multi-Function Fluid Measurement System using High-Definition Fiber Optic Sensing](#) [5]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

**Virginia Tech**

Virginia Tech MC 0238

Blacksburg, VA 24061

18-1-T13.01-5942 SSC

[Wireless Networked Cryogenic and Minimum Pressure Sensors](#) [6]

**Pegasense, LLC**

1511 East State Road 434, Suite 2001

Winter Springs, FL 32708

Svetlana Malocha (407) 766-5783

**University of Central Florida**

4000 Central Florida Blvd

Orlando, FL

18-1-T13.01-1144 SSC

[Multi-Band Software Defined Radio Sensor System](#) [7]

**Sensatek Propulsion Technology, Inc**

1736 W. Paul Dirac Drive, Suite 113

Tallahassee, FL 32310

Azryana Soto (850) 348-0687

**Florida State University**

222 S. Copeland Street

Tallahassee, FL

18-1-T13.01-1183 SSC

[Wireless Passive Nanoparticle based Intelligent Sensor System for Extreme Environments](#) [8]

**Vecna Technologies, Inc.**

7500 Greenway Center Drive, Suite 1130

Greenbelt, MD 20770

Gentiana Spahiu Pina (617) 864-0636

**Massachusetts Institute of Technology**

77 Massachusetts Avenue

Cambridge, MA

18-1-T4.03-2132 JPL

[Coordination of Heterogeneous Robot Swarms for Planetary Logistics Operations](#) [9]

**VisSidus Technologies, Inc.**

601 Innovation Way

Daytona Beach, FL 32114

Rachel Campbell (206) 617-2445

**The University of Tennessee-Knoxville**

527 Andy Holt Tower

Knoxville, TN

18-1-T4.03-6342 JPL

[Smallsat Swarm Sparse Aperture SAR for Recon and Surveillance \(SSSASAfRaS\)](#) [10]

• **Focus Area 4 Robotic Systems for Space Exploration (2)**

**CU Aerospace, LLC**

301 North Neil Street, Suite 502

Champaign, IL 61820

David Carroll (217) 239-1703

**University of Illinois at Urbana-Champaign**

601 E John Street

Champaign, IL

18-1-T4.01-3162 ARC

[Scalable and Distributed Inertial Navigation Systems](#) [11]

**Mesh Robotics, LLC**

100 43rd St, Ste 104

Pittsburgh, PA 15201

Michael Wagner (412) 606-3842

**Carnegie Mellon University**

5000 Forbes Ave.

Pittsburgh, PA 15213

18-1-T4.01-7433 ARC

[Deep Learning Applied to Detecting Salient Features and Building Better 3D Models](#) [12]

• **Focus Area 6 Life Support and Habitation Systems (8)**

**Mosaic Materials, Inc.**

1811 Francisco Street, #4

Berkeley, CA 94703

Jason Husk (925) 289-9623

**University of California Berkeley**

2150 Shattuck Ave., 10th Floor

Berkeley, CA 94704

18-1-T6.01-1154 MSFC

[Efficient CO<sub>2</sub> and H<sub>2</sub>O Removal with Novel Adsorbents for Life Support Applications on Mars](#) [13]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

**Virginia Tech**

403 Durham Hall

Blacksburg, VA 24061

18-1-T7.02-6802 KSC

[Hydroponic Rego-rock Produced In-Space for Efficient and Healthy Crop Growth](#) [14]

**NuMat Technologies**

8025 Lamon Avenue

Skokie, IL 60077

William Morris (847) 929-4186

**Northwestern University**

633 Clark St

Evanston, IL

18-1-T6.01-1733 ARC

[Plug and Play: Utilizing MOFs in Preexisting Carbon Dioxide Removal Assemblies for Enhanced Performance, Smaller Footprint, and Lower Energy Consumption.](#) [15]

**Reaction Systems, LLC**

17301 West Colfax Avenue, #160

Golden, CO 80401

Todd Leeson (303) 881-7992

**Regents of the University of Colorado**

3100 Marine Street

Boulder, CO 80303

18-1-T6.01-1259 JSC

[A Supported Liquid Membrane System for Steady State CO2 Control in a Spacecraft Cabin](#) [16]

**Space Lab Technologies, LLC**

P.O. Box 448

Pinecliffe, CO 80471

Christine Escobar (720) 309-8475

**Regents of the University of Colorado**

3100 Marine Street

Boulder, CO 80303

18-1-T7.02-2932 KSC

[MarsOasis - An Efficient Autonomously Controlled Martian Crop Production System](#) [17]

**Sustainable Bioproducts, LLC**

920 Technology Boulevard

Bozeman, MT 59718

Rich Macur (406) 579-1370

**Montana State University-Bozeman, Center for Biofilm Engineering**

Montana State University-Bozeman, Center for Biofilm Engineering

Bozeman, MT 59717

18-1-T7.01-1083 ARC

[A Robust Biofilm-Biomat Reactor for Conversion of Mission-Relevant Feedstocks to Products](#) [18]

**Sustainable Innovations, LLC**

111 Roberts Street, Suite J

East Hartford, CT 6108

Trent Molter (860) 652-9690

**University of South Carolina-Columbia**

Columbia-Campus

Columbia, SC

18-1-T6.01-1070 JSC

[Bifunctional Regenerative Electrochemical Air Transformation for Human Environments](#) [19]

**UbiQD**

134 Eastgate Drive

Los Alamos, NM 87544

Hunter McDaniel (505) 310-6767

**University of Arizona**

1177 E. 4th Street, Shantz Building

Tucson, AZ 85721

18-1-T7.02-8052 KSC

[Tailoring the Solar Spectrum for Enhanced Crop Yield for Space Missions](#) [20]

• **Focus Area 9 Sensors, Detectors and Instruments (5)**

**Aktiwave**

241 Ashley Drive

ROCHESTER, NY 14620

Christophe Dorrer (585) 355-2706

**Rochester Institute of Technology**

1 Lomb Memorial Dr

Rochester, NY

18-1-T8.02-4423 GSFC

[Femtosecond-Laser Fabrication of Waveguides in Laser Materials](#) [21]

**Nexus Photonics, LLC**

2320 De La Vina Street, #12

Santa Barbara, CA 93105

Tin Komljenovic (805) 895-4733

**University of California-Santa Barbara**

5221 Cheadle Hall

Santa Barbara, CA

18-1-T8.02-3882 GSFC

[Chip-scale THz Spectrometer](#) [22]

**OEwaves, Inc.**

465 North Halstead Street, Suite #140

Pasadena, CA 91107

Debra Coler (626) 351-4200

**Georgia Institute of Technology-School of Electrical and Computer Engineering**

505 Tenth Street

Atlanta, GA 30332

18-1-T8.02-7183 GRC

[Integrated Photonic Filters for RF Signal Processing](#) [23]

**Omega Optics, Inc.**

8500 Shoal Creek Boulevard, Building 4, Suite 200

Austin, TX 78757

Gloria Chen (512) 996-8833

**The University of Texas at Austin**

110 Inner Campus Drive



Austin, TX

18-1-T8.02-3833 GSFC

[Flash Drive Integrated Label Free Silicon Nano-Photonic Bio-Assays for Space Station Bio-Diagnostics](#) [24]

**Structured Materials Industries, Inc.**

201 Circle Drive North, Suite 102/103

Piscataway, NJ 8854

Gary Tompa (732) 302-9274

**Arizona State University-Tempe**

551 E. Tyler Mall St ERC RM 159

Tempe, AZ 85281

18-1-T8.02-2073 GSFC

[Si-Based Lab-on-A-Chip Integrated Photonic Spectrometer](#) [25]

• **Focus Area 12 Entry, Descent and Landing Systems (8)**

**Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

**Case Western Reserve University**

10900 Euclid Ave.

Cleveland, OH 44106

18-1-T9.01-8702 MSFC

[Advanced Hot Reservoir Variable Conductance Heat Pipes for Planetary Landers](#) [26]

**CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

**Los Alamos National Laboratory**

P.O. Box 1663

Los Alamos, NM

18-1-T9.01-6232 MSFC

[Prediction of Plume Induced Rock Fracture for Landers](#) [27]

**CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

**Mississippi State University**

Lee Boulevard

Mississippi State, MS

18-1-T9.01-6552 LaRC

[A Scalable Gas-Particle Flow Simulation Tool for Lander Plume-Surface Interaction and Debris Prediction](#) [28]

**Frontier Aerospace Corporation**

4109A Guardian Street

Simi Valley, CA 93063

Kevin Schoonover (805) 577-8771

**Purdue University-Main Campus**

Hovde Hall of Administration

West Lafayette, IN

18-1-T9.01-5313 MSFC

[Properties Investigation of High-MON Oxidizers for Use in Deep Space Exploration](#) [29]

**Geoplasma, LLC**

6703 Odyssey Drive Northwest, Suite 304

Huntsville, AL 35806

Timothy McKechnie (256) 851-7653

**North Carolina State University at Raleigh**

2701 Sullivan Drive

Raleigh, NC 27695

18-1-T9.01-9992 LaRC

[Additive Manufacture of Refractory Metal Propulsion Components](#) [30]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 1810

B. David Green (978) 689-0003

**Concurrent Technologies Corporation**

100 CTC Drive

Johnstown, PA 15904

18-1-T9.01-8762 MSFC

[Regeneratively Cooled Ceramic Matrix Composite Nozzle Assembly for Reduced Weight](#) [31]

**Streamline Numerics, Inc.**

3221 North West 13th Street, Suite A

Gainesville, FL 32609

Siddharth Thakur (352) 271-8841

**Mississippi State University**

Lee Boulevard

Mississippi State, MS

18-1-T9.01-2162 GRC

[Multiscale Eulerian-Lagrangian Spray Methodology Coupled with Flamelet Models for Liquid Rocket Engine Combustion](#) [32]

**TGV Rockets, Inc.**

2519 Benning Road Northeast

Washington, DC 20002

Pat Bahn (240) 462-8848

**Edison Welding Institute**

1250 Arthur E Adams Drive

Columbus, OH 43221

18-1-T9.01-3963 GRC

[Ultrasonic Additive Manufacturing of a deep throttling methane injector.](#) [33]

- **Focus Area 14 In-Space and Advanced Manufacturing (2)**

- **Applied Optimization, Inc.**

- 3040 Presidential Drive, Suite 100

- Fairborn, OH 45324

- Mark Zimmerman (937) 431-5100

- **The University of Tennessee-Knoxville**

- 527 Andy Holt Tower

- Knoxville, TN

- 18-1-T12.02-8852 LaRC

- [Extensible Modeling to Create Knowledgebase for AM Processing of Alloy GrCop-84](#) [34]

- **Sentient Science**

- 672 Delaware

- Buffalo, NY 14209

- Melissa McReynolds (716) 239-8215

- **University of Nebraska - Lincoln**

- 2200 Vine Street

- Lincoln, NE 68583

- 18-1-T12.02-4053 JPL

- [Sentient Science - A Multiscale Modeling Suite for Process and Microstructure Prediction in Metal Additive Manufacturing](#) [35]

- **Focus Area 15 Lightweight Materials Structures and Assembly / Construction (5)**

- **Composites Automation, LLC**

- 9 Adelaide Court

- Newark, DE 19702

- Dirk Heider (302) 831-8898

- **University of Delaware**

104 Hullihen Hall

Newark, DE

18-1-T12.01-7112 LaRC

[Ultra-Thin Ply Formable Material from Reusable Short Carbon Fiber Composites](#) [36]

**NextGen Materials & Processing, LLC**

31 Wells Drive

Tewksbury, MA 1876

Konstantine Fetfatsidis (978) 604-1660

**University of Massachusetts Lowell**

600 Suffolk Street, Suite 212

Lowell, MA 1854

18-1-T12.01-1662 LaRC

[Automated Fiber Placement of Thin-Ply Composite Materials for Large Aerospace Structures](#) [37]

**Opterus Research and Development, Inc.**

4221 Rolling Gate Road

Fort Collins, CO 80526

Thomas Murphey (505) 250-3006

**COLORADO STATE UNIVERSITY**

Sponsored Programs; 601 S. Howes St.

Fort Collins, CO 80523

18-1-T12.01-5482 LaRC

[Validated Engineering Tools for Thin-Ply Composites](#) [38]

**ROCCOR, LLC**

2602 Clover Basin Drive, Suite D

Longmont, CO 80503

Stephanie Amend (300) 200-0068

**The University of Central Florida Board of Trustees**

12201 Research Parkway, Suite 501

Orlando, FL 32826

18-1-T12.01-7072 LaRC

[Engineering and Qualification of Thin-Ply Composites](#) [39]

**Technical Data Analysis, Inc.**

3190 Fairview Park Drive, Suite 650

Falls Church, VA 22042

Scott Bradfield (703) 226-4061

**Missouri University of Science and Technology**

1201 N. State St.

Rolla, MO

18-1-T12.01-7662 LaRC

[Multiscale Design Tool and Process Development of Thin-Ply Composites](#) [40]

• **Focus Area 18 Air Vehicle Technology (2)**

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

**University of Maryland-College Park**

7950 Baltimore Avenue

College Park, MD

18-1-T15.01-3543 AFRC

[Aeroservoelastic Multifidelity Design of Biomimetic Aircraft \(AMuBA\)](#) [41]

**M4 Engineering, Inc.**

4020 Long Beach Boulevard

Long Beach, CA 90807

Myles Baker (562) 305-3391

**University of Washington-Seattle Campus**

1400 NE Campus Parkway

Seattle, WA

18-1-T15.01-6203 AFRC

[Novel Aeroservoelastic Scaled Model Design, Fabrication, and Testing](#) [42]

- **Focus Area 21 Small Spacecraft Technologies (2)**

- **Parabilis Space Technologies, Inc.**

- 1195 Linda Vista Drive, Suite F

- San Marcos, CA 92078

- David Brynes (619) 750-4484

- **University of Southern California**

- 3720 S. Flower Street

- Los Angeles, CA 90089

- 18-1-T1.01-8823 MSFC

- [Nanosat Maneuvering and Orbital Transfer Stage](#) [43]

- **Valley Tech Systems, Inc.**

- 160 Blue Ravine Road, Suite B

- Folsom, CA 95630

- Joseph Viola (916) 760-3603

- **The University of Texas at El Paso**

- 500 W. University Ave

- El Paso, TX

- 18-1-T1.01-3842 MSFC

- [Refractory Additively Manufactured Affordable Launch Vehicle RCS](#) [44]

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