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


  **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
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


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 (SSSASAIRaS) [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


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 CO2 and H2O 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 08854
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
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


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**
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]