Proposals Selected for Negotiation of Contracts

- **ADA Technologies, Inc.**
  8100 Shaffer Parkway, Suite 130
  Littleton, CO 80127
  Sheryl Suhr (303) 874-8262

  **University of Delaware**
  Center for Composit Materials
  Newark, DE 19716
  10-1-T9.01-9836 MSFC
  [Non-Catalytic Self Healing Composite Material Solution](#) [1]

- **ADVR, Inc.**
  2310 University Way, Bldg. 1-1
  Bozeman, MT 59715
  Betsy Heckel (406) 522-0388

  **Montana State University**
  PO Box 172470, 309 Montana Hall
  Bozeman, MT 59717
  10-1-T4.01-9837 GSFC
  [A Waveguide Based, High Power Pockels Cell Modulator for Sub-Nanosecond Pulse Slicing](#) [2]

- **Applied Sensor Research & Development Corporation**
  1195 Baltimore-Annapolis Blvd., Unit #2
  Arnold, MD 21012
  Jacqueline Hines (410) 544-4664

  **University of Maine**
5717 Corbett Hall
Orono, ME 04469
10-1-T7.01-9856 KSC

Enhanced Codeset Passive Wireless SAW Sensor-Tags and System [3]

• Applied Sensor Research & Development Corporation
  1195 Baltimore-Annopolis Blvd., Unit #2
  Arnold, MD 21012
  Jacqueline Hines (410) 544-4664

  Temple University
  1938 Liacouras Walk, Room 217A
  Philadelphia, PA 19122
  10-1-T7.01-9855 KSC


• Astro Terra Corp
  1255 N. Christine st
  Orange, CA 92869
  Anthony Long (619) 339-7279

  Virginia Commonwealth University
  800 East Leigh Street
  Richmond, VA 23298
  10-1-T6.01-9879 JSC

  Self-Healing Inflatable Extraterrestrial Shield (SHIELD) [5]

• Aurora Flight Sciences Corporation
  9950 Wakeman Drive
  Manassas, VA 20110
  Scott Hart (617) 500-0536

  Georgia Institute of Technology Center for Space Systems
  620 Cherry Street Northwest
Atlanta, GA 30332
10-1-T1.01-9956 ARC

Small Probes for Orbital Return of Experiments (SPORE) [6]

- Axis Engineering Technologies
  One Broadway, 14th Floor
  Cambridge, MA 02142
  Eric Prechtl (617) 225-4414

University of Maryland
  3112 Lee Building
  College Park, MD 20742
  10-1-T3.01-9899 GRC

  Superconducting Resonant Inductive Power Coupling [7]

- Balcones Technologies, LLC
  10532 Grand Oak Circle
  Austin, TX 78750
  Joseph Beno (512) 918-1496

  University of Texas - Center for Electromechanics
  P.O. Box 7726
  Austin, TX 78713
  10-1-T3.01-9942 GRC

  Superconducting Magnetic Bearings for Space-Based Flywheel Energy Storage Systems [8]

- Brimrose Technology Corporation
  19 Loveton Circle, P.O. Box 616
  Sparks, MD 21152
  Diane Murray (936) 588-6901

  Penn State University: Applied Research Laboratory (ARL)
  P.O. Box 30
State College, PA 16804
10-1-T8.03-9945 LaRC


- Busek Co., Inc.
  11 Tech Circle

  Natick, MA 01760

  Judy Budny (508) 655-5565

The Pennsylvania State University
PO Box 30
State College, PA 16804
10-1-T3.01-9872 GRC

Magnesium Hall Thruster for Solar System Exploration [10]

- CFD Research Corporation
  215 Wynn Drive, 5th Floor

  Huntsville, AL 35805

  Silvia Harvey (256) 726-4858

University of Cincinnati
P.O. Box 210072
Cincinnati, OH 45221
10-1-T9.01-9887 MSFC


- Combustion Research and Flow Technology
  6210 Keller's Church Road

  Pipersville, PA 18947

  katherine Young (215) 766-1520

Propulsion Research Center University of Alabama in Huntsville
S225 Technology Drive
Huntsville, AL 35899
10-1-T10.01-9977 SSC

**Novel Design of Orifice Type Control Element for Mitigating Instabilities** [12]

- **Fibertek, Inc.**
  
  13605 Dulles Technology Drive
  
  Herndon, VA 20171
  
  Tracy Perinis (703) 471-7671

  **University of Maryland, Baltimore County**
  
  1000 Hilltop Circle
  
  Baltimore, MD 21250
  
  10-1-T4.01-9931 GSFC

  **New Lidar Laser Configuration for Earth Science Measurements** [13]

- **Global Aerospace Corporation**
  
  711 West Woodbury Road, Suite H
  
  Altadena, CA 91001
  
  Kerry Nock (626) 345-1200

  **Cal Poly Corporation**
  
  One Grand Avenue, Building 38, Rm 102
  
  San Luis Obispo, CA 93407
  
  10-1-T1.01-9924 ARC

  **Small Probe Reentry System** [14]

- **Innosense, LLC**
  
  2531 West 237th Street, Suite 127
  
  Torrance, CA 90505
  
  Kisholoy Goswami (310) 530-2011

  **University of Nevada**
  
  4505 Maryland Parkway
  
  Las Vegas, NV 89154
10-1-T8.01-9960 LaRC

Ionic Polymer-Based Removable and Charge-Dissipative Coatings for Space Electronic Applications [15]

- Innosense, LLC
  2531 West 237th Street, Suite 127
  Torrance, CA 90505
  Kisholoy Goswami (310) 530-2011

The Research Foundation of SUNY
  402 Crofts Hall
  Buffalo, NY 14260
10-1-T6.02-9958 JSC

Portable High Sensitivity and High Resolution Sensor to Determine Oxygen Purity Levels [16]

- Innovative Imaging and Research
  Building 1103, Suite 140C
  Stennis Space Center, MS 39529
  Mary Pagnutti (228) 688-2452

The University of Southern Mississippi
  118 College Drive #5157
  Hattiesburg, MS 39406
10-1-T10.01-9965 SSC

Optical Approach to Augment Current Float Sensing Method of Determining Cryogen Fluid Height Within a Tank [17]

- Intelligent Fiber Optic Systems Corporation
  2363 Calle Del Mundo
  Santa Clara, CA 95054
  Behzad Moslehi (408) 565-9004

North Carolina State University
  2701 Sullivan Drive, Suite 240 (Campus Box 7514)
  Raleigh, NC 27695
10-1-T1.01-9930 ARC

Fiber Optic Temperature Sensors for Thermal Protection Systems [18]

- **International Scientific Technologies, Inc.**
  P.O. Box 757
  Dublin, VA 24084
  Wanda Gibson (540) 633-1424

- **The College of William and Mary**
  P.O. Box 8795
  Williamsburg, VA 23187
  10-1-T8.02-9893 LaRC
  Polyimide Nanocomposite Circuit Board Materials to Mitigate Internal Electrostatic Discharge [19]

- **Kestrel Technology LLC**
  3260 Hillview Avenue
  Palo Alto, CA 94304
  David Kulich (209) 295-4281

- **Texas Tech University**
  2500 Broadway
  Lubbock, TX 79409
  10-1-T1.02-9853 ARC
  Agent Architecture for Continuous Systems [20]

- **Keystone Synergistic Enterprises, Inc.**
  664 NW Enterprise Drive, Suite 118
  Port Saint Lucie, FL 34986
  Raymond Walker (772) 343-7575

- **Edison Welding Institute**
  1250 Arthur East Adams Drive
  Columbus, OH 43221
10-1-T9.01-9909 MSFC


- **LC Tech**
  
  280 Parkside Dr
  
  Palo Alto, CA 94306
  
  Bin Chen (650) 283-3387

**UCLA**

420 Westwood Plaza

Los Angeles, CA 90095

10-1-T8.03-9877 LaRC

Energy Production for Sustainable Planetary Explorations [22]

- **Longhurst Engineering, PLC**
  
  234 South Ewing Street
  
  Guthrie, KY 42234
  
  William Longhurst (615) 289-1162

**Vanderbilt University**

2201 West End Ave

Nashville, TN 37235

10-1-T9.01-9949 MSFC

Torque Control of Friction Stir Welding [23]

- **Los Gatos Research**
  
  67 East Evelyn Avenue, Suite 3
  
  Mountain View, CA 94041
  
  Anthony O'Keefe (650) 965-7772

**The University of Wisconsin - Madison**

21 North Park Street, Suite 6401

Madison, WI 53715

10-1-T6.02-9858 JSC
Highly Accurate Sensor for High-Purity Oxygen Determination [24]

- **Luminit, LLC**
  1850 W. 205 Street
  Torrance, CA 90501
  marie todd (310) 320-1066

  **Southern Methodist University**
  6425 Boaz Lane
  Dallax, TX 75205
  10-1-T10.01-9845 SSC

  Luminit Optical Tank-level Sensing System [25]

- **Luna Innovations Incorporated**
  1 Riverside Circle, Suite 400
  Roanoke, VA 24016
  Maggie Hudson (434) 483-4254

  **The Aerospace Corporation**
  2310 East El Segundo Boulevard
  El Segundo, CA 90245
  10-1-T8.01-9926 LaRC

  Charge Dissipating Transparent Conformal Coatings for Spacecraft Electronics [26]

- **MetroLaser, Inc.**
  8 Chrysler
  Irvine, CA 92618
  Christina Arnold (949) 553-0688

  **Stanford University**
  340 Panama Street
  Stanford, CA 94305
  10-1-T6.02-9943 JSC
Differential Diode Laser Sensor for High-Purity Oxygen [27]

- Mnemonics, Inc.
  3900 Dow Road, Suite J
  Melbourne, FL 32394
  Al Calderone (321) 254-7300

University of Central Florida
  12201 Research Parkway, Suite 501
  Orlando, FL 32826
  10-1-T7.01-9980 KSC

Wireless SAW Sensor Strain Gauge & Integrated Interrogator Design [28]

- Nanosonic, Inc.
  158 Wheatland Drive
  Pembroke, VA 24136
  Lisa Lawson (540) 626-6266

Texas A&M
  3126 TAMU
  College Station, TX 77843
  10-1-T3.01-9898 GRC

Lightweight Metal Rubber Wire and Cable for Space Power Systems [29]

- Nanosonic, Inc.
  158 Wheatland Drive
  Pembroke, VA 24136
  Lisa Lawson (540) 626-6266

Colorado State University
  1618 Campus Delivery
  Ft Collins, CO 80523
  10-1-T6.01-9860 JSC

Lightweight, Radiation Resistant, Low Tg, Thoraeus Rubber Inflatable Space Habitats [30]
• **Phenom Technologies, Inc**
  5300 Palmer Ln, STE 2A
  Williamsburg, VA 23188
  Erik Spahr (757) 784-4647

  **College of William and Mary**
  Grants and Research Administration
  Williamsburg, VA 23187
  10-1-T8.03-9870 LaRC

  *Photo-Enhanced Hydrogen Transport Technology for Clean Renewable Electrochemical Energy Systems* [31]

• **Physical Sciences, Inc.**
  20 New England Business Center
  Andover, MA 01810
  B. David Green (978) 689-0003

  **University of Connecticut**
  438 Whitney Road Extension, Unit 1133
  Storrs, CT 06269
  10-1-T3.01-9892 GRC

  *Functionalized Graphitic Supports for Improved Fuel Cell Catalyst Stability* [32]

• **Princeton Lightwave, Inc.**
  2555 Route 130 South, Suite 1
  Cranbury, NJ 08512
  Bora Onat (609) 495-2546

  **University of Virginia**
  PO Box 400195
  Charlottesville, VA 22904
  10-1-T5.01-9824 JPL

  *Extended Wavelength InP Based Avalanche Diodes for MWIR Response* [33]
● ProtoInnovations, LLC
  1908 Shaw Avenue
  Pittsburgh, PA 15217
  Dimi Apostolopoulos (412) 916-8807

  Carnegie Mellon University
  5000 Forbes Avenue
  Pittsburgh, PA 15213
  10-1-T1.02-9834 ARC
  Simultaneous Localization and Mapping for Planetary Surface Mobility [34]

● Radiance Technologies, Inc.
  350 Wynn Drive
  Huntsville, AL 35805
  Brad Atkins (256) 489-8584

  The University of Southern Mississippi
  118 College Drive #5157
  Hattiesburg, MS 39406
  10-1-T10.02-9952 SSC
  Energy Conservation and Sustainability, Technologies for Propellant Conservation [35]

● Rolling Hills Research Corporation
  420 North Nash Street
  El Segundo, CA 90245
  Brian Kramer (310) 640-8781

  The Board of Trustees of the University of Illinois
  1901 South First Street, Suite A
  Champaign, IL 61820
  10-1-T2.01-9880 AFRC
  Versatile Electric Propulsion Aircraft Testbed [36]
• Rolling Hills Research Corporation
  420 North Nash Street
  El Segundo, CA 90245
  Brian Kramer (310) 640-8781
  
  Cal Poly Corporation
  1 Grand Avenue, Building 38, Room 102
  San Luis Obispo, CA 93407
  10-1-T2.01-9869 AFRC
  A Refined Model for the Behavior of Nitrous Oxide to Assess the Limits of N2O Cooling [37]

• Signal Processing, Inc.
  13619 Valley Oak Circle
  Rockville, MD 20850
  Chiman Kwan (301) 315-2322
  
  University of Tennessee
  1508 Middle Drive
  Knoxville, TN 37996
  10-1-T5.01-9939 JPL
  Real-Time Smart Tools for Processing Spectroscopy Data [38]

• Streamline Numerics, Inc.
  3221 Northwest 13th Street, Suite A
  Gainesville, FL 32609
  Siddharth Thakur (352) 271-8841
  
  Mississippi State University
  449 Hardy Road, 133 Ethredge Hall
  Mississippi State, MS 39762
  10-1-T9.01-9962 MSFC
  Efficient Parallel Solver for Unsteady Flow Physics in Complex Space Propulsion Geometries [39]
• Tao of Systems Integration, Inc.
  144 Research Drive
  Hampton, VA 23666
  Arun Mangalam (757) 220-5040

  Regents of the University of Minnesota
  450 McNamara Alumni Center, 200 Oak Street South East
  Minneapolis, MN 55455
  10-1-T2.01-9953 AFRC

    Robust Aeroservoelastic Control Utilizing Physics-Based Aerodynamic Sensing [40]

• TDA Research, Inc.
  12345 West 52nd Avenue
  Wheat Ridge, CO 80033
  John Wright (303) 940-2300

  Colorado School of Mines
  1500 Illinois Street
  Golden, CO 80401
  10-1-T10.02-9885 SSC

    Helium-Hydrogen Recovery System [41]

• Tech-X Corporation
  5621 Arapahoe Avenue, Suite A
  Boulder, CO 80303
  Leslie Rosczyk (720) 974-1855

  Colorado State University
  6010 Campus Delivery
  Fort Collins, CO 80523
  10-1-T3.01-9915 GRC

    Advanced Particle-in-Cell (PIC) Tools for Simulation of Electrodynamic Tether Plasma Interactions [42]

• Tetra Research Corporation
Mississippi State University  
Engineering Research Center  
Mississippi State, MS 39762  
10-1-T9.01-9906 MSFC  
Advanced Flow Analysis Tools for Transient Solid Rocket Motor Simulations [43]

TRACLabs, Inc.  
100 North East Loop 410, Suite 520  
San Antonio, TX 78216  
David Kortenkamp (281) 461-7884  
Building and Executing Rover Plans with Contingent Tasks [44]

Carnegie Mellon University - Silicon Valley  
NASA Research Park, Building 23  
Moffett Field, CA 94305  
10-1-T1.02-9882 ARC

Voxtel, Inc.  
15985 Northwest Schendel Avenue, Suite 200  
Beaverton, OR 97006  
Debra Ozuna (971) 223-5646  
High Sensitivity, Radiation Hard InGaAs LIDAR Receiver for Unmanned Aircraft Systems (UAS) [45]