Proposals Selected for Negotiation of Contracts

- **Cal Poly Corporation**
  One Grand Avenue, Building 38, Rm 102

  San Luis Obispo, CA 93407

  **Global Aerospace Corporation**
  711 West Woodbury Road, Suite H

  Altadena, CA 91001

  Kerry Nock (626) 345-1200

  10-1-T1.01-9924 ARC

  [Small Probe Reentry System](#)[1]

- **Cal Poly Corporation**
  1 Grand Avenue, Building 38, Room 102

  San Luis Obispo, CA 93407

  **Rolling Hills Research Corporation**
  420 North Nash Street

  El Segundo, CA 90245

  Brian Kramer (310) 640-8781

  10-1-T2.01-9869 AFRC

  [A Refined Model for the Behavior of Nitrous Oxide to Assess the Limits of N2O Cooling](#)[2]

- **Carnegie Mellon University**
  5000 Forbes Avenue

  Pittsburgh, PA 15213

  **ProtoInnovations, LLC**
  1908 Shaw Avenue
Pittsburgh, PA 15217
Dimi Apostolopoulos (412) 916-8807
10-1-T1.02-9834 ARC
Simultaneous Localization and Mapping for Planetary Surface Mobility [3]

- Carnegie Mellon University - Silicon Valley
  NASA Research Park, Building 23
  Moffett Field, CA 94305

  TRACLabs, Inc.
  100 North East Loop 410, Suite 520
  San Antonio, TX 78216
  David Kortenkamp (281) 461-7884
  10-1-T1.02-9882 ARC
  Building and Executing Rover Plans with Contingent Tasks [4]

- College of William and Mary
  Grants and Research Administration
  Williamsburg, VA 23187

  Phenom Technologies, Inc
  5300 Palmer Ln, STE 2A
  Williamsburg, VA 23188
  Erik Spahr (757) 784-4647
  10-1-T8.03-9870 LaRC

- Colorado School of Mines
  1500 Illinois Street
  Golden, CO 80401

  TDA Research, Inc.
  12345 West 52nd Avenue
Wheat Ridge, CO 80033
John Wright (303) 940-2300
10-1-T10.02-9885 SSC

- **Colorado State University**
  6010 Campus Delivery
  Fort Collins, CO 80523

**Tech-X Corporation**
5621 Arapahoe Avenue, Suite A
Boulder, CO 80303
Leslie Rosczyk (720) 974-1855
10-1-T3.01-9915 GRC

- **Colorado State University**
  1618 Campus Delivery
  Ft Collins, CO 80523

**Nanosonic, Inc.**
158 Wheatland Drive
Pembroke, VA 24136
Lisa Lawson (540) 626-6266
10-1-T6.01-9860 JSC
Lightweight, Radiation Resistant, Low Tg, Thoraeus Rubber Inflatable Space Habitats [8]

- **Edison Welding Institute**
  1250 Arthur East Adams Drive
  Columbus, OH 43221

**Keystone Synergistic Enterprises, Inc.**
664 NW Enterprise Drive, Suite 118
Port Saint Lucie, FL 34986
Raymond Walker (772) 343-7575
10-1-T9.01-9909 MSFC


- **Georgia Institute of Technology Center for Space Systems**
  620 Cherry Street Northwest
  Atlanta, GA 30332

**Aurora Flight Sciences Corporation**
9950 Wakeman Drive
Manassas, VA 20110
Scott Hart (617) 500-0536
10-1-T1.01-9956 ARC

**Small Probes for Orbital Return of Experiments (SPORE)** [10]

- **Georgia Tech Applied Research Corporation**
  925 Dalney Street
  Atlanta, GA 30332

**Voxtel, Inc.**
15985 Northwest Schendel Avenue, Suite 200
Beaverton, OR 97006
Debra Ozuna (971) 223-5646
10-1-T4.01-9890 GSFC


- **Mississippi State University**
  449 Hardy Road, 133 Ethredge Hall
  Mississippi State, MS 39762

**Streamline Numerics, Inc.**
3221 Northwest 13th Street, Suite A
Gainesville, FL 32609
Siddharth Thakur (352) 271-8841
10-1-T9.01-9962 MSFC

**Efficient Parallel Solver for Unsteady Flow Physics in Complex Space Propulsion Geometries** [12]

- **Mississippi State University**
  Engineering Research Center
  Mississippi State, MS 39762
  Tetra Research Corporation
  420 Park Avenue West
  Princeton, IL 61356
  Rex Chamberlain (815) 872-0702
  10-1-T9.01-9906 MSFC
  **Advanced Flow Analysis Tools for Transient Solid Rocket Motor Simulations** [13]

- **Montana State University**
  PO Box 172470, 309 Montana Hall
  Bozeman, MT 59717
  ADVR, Inc.
  2310 University Way, Bldg. 1-1
  Bozeman, MT 59715
  Betsy Heckel (406) 522-0388
  10-1-T4.01-9837 GSFC
  **A Waveguide Based, High Power Pockels Cell Modulator for Sub-Nanosecond Pulse Slicing** [14]

- **North Carolina State University**
  2701 Sullivan Drive, Suite 240 (Campus Box 7514)
  Raleigh, NC 27695
  Intelligent Fiber Optic Systems Corporation
  2363 Calle Del Mundo
  Santa Clara, CA 95054
  Behzad Moslehi (408) 565-9004
10-1-T1.01-9930 ARC

*Fiber Optic Temperature Sensors for Thermal Protection Systems* [15]

- **Penn State University: Applied Research Laboratory (ARL)**
  
P.O. Box 30
  
State College, PA 16804

**Brimrose Technology Corporation**

19 Loveton Circle, P.O. Box 616

Sparks, MD 21152

Diane Murray (936) 588-6901

10-1-T8.03-9945 LaRC

*Alternative Green Technology for Power Generation Using Waste-Heat Energy And Advanced Thermoelectric Materials* [16]

- **Propulsion Research Center University of Alabama in Huntsville**
  
S225 Technology Drive
  
Huntsville, AL 35899

**Combustion Research and Flow Technology**

6210 Keller's Church Road

Pipersville, PA 18947

katherine Young (215) 766-1520

10-1-T10.01-9977 SSC

*Novel Design of Orifice Type Control Element for Mitigating Instabilities* [17]

- **Regents of the University of Minnesota**
  
450 McNamara Alumni Center, 200 Oak Street South East
  
Minneapolis, MN 55455

**Tao of Systems Integration, Inc.**

144 Research Drive

Hampton, VA 23666

Arun Mangalam (757) 220-5040
10-1-T2.01-9953 AFRC

Robust Aeroservoelastic Control Utilizing Physics-Based Aerodynamic Sensing [18]

- Southern Methodist University
  6425 Boaz Lane
  Dallas, TX 75205

  Luminit, LLC
  1850 W. 205 Street
  Torrance, CA 90501
  marie todd (310) 320-1066
  10-1-T10.01-9845 SSC

  Luminit Optical Tank-level Sensing System [19]

- Stanford University
  340 Panama Street
  Stanford, CA 94305

  MetroLaser, Inc.
  8 Chrysler
  Irvine, CA 92618
  Christina Arnold (949) 553-0688
  10-1-T6.02-9943 JSC

  Differential Diode Laser Sensor for High-Purity Oxygen [20]

- Temple University
  1938 Liacouras Walk, Room 217A
  Philadelphia, PA 19122

  Applied Sensor Research & Development Corporation
  1195 Baltimore-Annapolis Blvd., Unit #2
  Arnold, MD 21012
  Jacqueline Hines (410) 544-4664
10-1-T7.01-9855 KSC

_hypergol Sensor Using Passive Wireless SAW Devices_ [21]

- **Texas A&M**
  3126 TAMU
  College Station, TX 77843

_Nanosonic, Inc._
  158 Wheatland Drive
  Pembroke, VA 24136
  Lisa Lawson (540) 626-6266
  10-1-T3.01-9898 GRC

_lightweight Metal Rubber Wire and Cable for Space Power Systems_ [22]

- **Texas Tech University**
  2500 Broadway
  Lubbock, TX 79409

_Kestrel Technology LLC_
  3260 Hillview Avenue
  Palo Alto, CA 94304
  David Kulich (209) 295-4281
  10-1-T1.02-9853 ARC

_agent Architecture for Continuous Systems_ [23]

- **The Aerospace Corporation**
  2310 East El Segundo Boulevard
  El Segundo, CA 90245

_Luna Innovations Incorporated_
  1 Riverside Circle, Suite 400
  Roanoke, VA 24016
  Maggie Hudson (434) 483-4254
  10-1-T8.01-9926 LaRC
Charge Dissipating Transparent Conformal Coatings for Spacecraft Electronics [24]

- **The Board of Trustees of the University of Illinois**
  
  1901 South First Street, Suite A
  
  Champaign, IL 61820

  **Rolling Hills Research Corporation**
  
  420 North Nash Street
  
  El Segundo, CA 90245
  
  Brian Kramer (310) 640-8781
  
  10-1-T2.01-9880 AFRC

  Versatile Electric Propulsion Aircraft Testbed [25]

- **The College of William and Mary**
  
  P.O. Box 8795
  
  Williamsburg, VA 23187

  **International Scientific Technologies, Inc.**
  
  P.O. Box 757
  
  Dublin, VA 24084
  
  Wanda Gibson (540) 633-1424
  
  10-1-T8.02-9893 LaRC

  Polyimide Nanocomposite Circuit Board Materials to Mitigate Internal Electrostatic Discharge [26]

- **The Pennsylvania State University**
  
  PO Box 30
  
  State College, PA 16804

  **Busek Co., Inc.**
  
  11 Tech Circle
  
  Natick, MA 01760
  
  Judy Budny (508) 655-5565
  
  10-1-T3.01-9872 GRC
Magnesium Hall Thruster for Solar System Exploration [27]

- The Research Foundation of SUNY
  402 Crofts Hall
  Buffalo, NY 14260

  Innosense, LLC
  2531 West 237th Street, Suite 127
  Torrance, CA 90505
  Kisholoy Goswami (310) 530-2011
  10-1-T6.02-9958 JSC

  Portable High Sensitivity and High Resolution Sensor to Determine Oxygen Purity Levels [28]

- The University of Southern Mississippi
  118 College Drive #5157
  Hattiesburg, MS 39406

  Radiance Technologies, Inc.
  350 Wynn Drive
  Huntsville, AL 35805
  Brad Atkins (256) 489-8584
  10-1-T10.02-9952 SSC

  Energy Conservation and Sustainability, Technologies for Propellant Conservation [29]

- The University of Southern Mississippi
  118 College Drive #5157
  Hattiesburg, MS 39406

  Innovative Imaging and Research
  Building 1103, Suite 140C
  Stennis Space Center, MS 39529
  Mary Pagnutti (228) 688-2452
  10-1-T10.01-9965 SSC

  Optical Approach to Augment Current Float Sensing Method of Determining Cryogen Fluid Height Within a
• The University of Wisconsin - Madison
   21 North Park Street, Suite 6401
   Madison, WI 53715

Los Gatos Research
67 East Evelyn Avenue, Suite 3
Mountain View, CA 94041
Anthony O'Keefe (650) 965-7772
10-1-T6.02-9858 JSC

Highly Accurate Sensor for High-Purity Oxygen Determination [31]

• UCLA
   420 Westwood Plaza
   Los Angeles, CA 90095

LC Tech
280 Parkside Dr
Palo Alto, CA 94306
Bin Chen (650) 283-3387
10-1-T8.03-9877 LaRC

Energy Production for Sustainable Planetary Explorations [32]

• University of Central Florida
   12201 Research Parkway, Suite 501
   Orlando, FL 32826

Mnemonics, Inc.
3900 Dow Road, Suite J
Melbourne, FL 32394
Al Calderone (321) 254-7300
10-1-T7.01-9980 KSC

Wireless SAW Sensor Strain Gauge & Integrated Interrogator Design [33]
• University of Cincinnati
P.O. Box 210072
Cincinnati, OH 45221

**CFD Research Corporation**
215 Wynn Drive, 5th Floor
Huntsville, AL 35805
Silvia Harvey (256) 726-4858
10-1-T9.01-9887 MSFC

[High-Fidelity Prediction of Launch Vehicle Liftoff Acoustic Fields](#) [34]

• University of Connecticut
438 Whitney Road Extension, Unit 1133
Storrs, CT 06269

**Physical Sciences, Inc.**
20 New England Business Center
Andover, MA 01810
B. David Green (978) 689-0003
10-1-T3.01-9892 GRC

[Functionalized Graphitic Supports for Improved Fuel Cell Catalyst Stability](#) [35]

• University of Delaware
Center for Composit Materials
Newark, DE 19716

**ADA Technologies, Inc.**
8100 Shaffer Parkway, Suite 130
Littleton, CO 80127
Sheryl Suhr (303) 874-8262
10-1-T9.01-9836 MSFC

[Non-Catalytic Self Healing Composite Material Solution](#) [36]
• **University of Maine**
  5717 Corbett Hall
  Orono, ME 04469

  **Applied Sensor Research & Development Corporation**
  1195 Baltimore-Annapolis Blvd., Unit #2
  Arnold, MD 21012
  Jacqueline Hines (410) 544-4664
  10-1-T7.01-9856 KSC
  [Enhanced Codeset Passive Wireless SAW Sensor-Tags and System][37]

• **University of Maryland**
  3112 Lee Building
  College Park, MD 20742

  **Axis Engineering Technologies**
  One Broadway, 14th Floor
  Cambridge, MA 02142
  Eric Prechtl (617) 225-4414
  10-1-T3.01-9899 GRC
  [Superconducting Resonant Inductive Power Coupling][38]

• **University of Maryland, Baltimore County**
  1000 Hilltop Circle
  Baltimore, MD 21250

  **Fibertek, Inc.**
  13605 Dulles Technology Drive
  Herndon, VA 20171
  Tracy Perinis (703) 471-7671
  10-1-T4.01-9931 GSFC
  [New Lidar Laser Configuration for Earth Science Measurements][39]
• University of Nevada
  4505 Maryland Parkway
  Las Vegas, NV 89154

  **Innosense, LLC**
  2531 West 237th Street, Suite 127
  Torrance, CA 90505
  Kisholoy Goswami (310) 530-2011
  10-1-T8.01-9960 LaRC
  [Ionic Polymer-Based Removable and Charge-Dissipative Coatings for Space Electronic Applications](#) [40]

• University of Texas - Center for Electromechanics
  P.O. Box 7726
  Austin, TX 78713

  **Balcones Technologies, LLC**
  10532 Grand Oak Circle
  Austin, TX 78750
  Joseph Beno (512) 918-1496
  10-1-T3.01-9942 GRC
  [Superconducting Magnetic Bearings for Space-Based Flywheel Energy Storage Systems](#) [41]

• University of Virginia
  PO Box 400195
  Charlottesville, VA 22904

  **Princeton Lightwave, Inc.**
  2555 Route 130 South, Suite 1
  Cranbury, NJ 08512
  Bora Onat (609) 495-2546
  10-1-T5.01-9824 JPL
  [Extended Wavelength InP Based Avalanche Diodes for MWIR Response](#) [42]

• University of Tennessee
1508 Middle Drive  
Knoxville, TN 37996

**Signal Processing, Inc.**  
13619 Valley Oak Circle  
Rockville, MD 20850  
Chiman Kwan (301) 315-2322  
10-1-T5.01-9939 JPL  
*Real-Time Smart Tools for Processing Spectroscopy Data* [43]

- **Vanderbilt University**  
2201 West End Ave  
Nashville, TN 37235

**Longhurst Engineering, PLC**  
234 South Ewing Street  
Guthrie, KY 42234  
William Longhurst (615) 289-1162  
10-1-T9.01-9949 MSFC  
*Torque Control of Friction Stir Welding* [44]

- **Virginia Commonwealth University**  
800 East Leigh Street  
Richmond, VA 23298

**Astro Terra Corp**  
1255 N. Christine st  
Orange, CA 92869  
Anthony Long (619) 339-7279  
10-1-T6.01-9879 JSC  
*Self-Healing Inflatable Extraterrestrial Shield (SHIELD)* [45]