Proposals Selected for Negotiation of Contracts

- **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 [1]

- **Global Aerospace Corporation**  
  711 West Woodbury Road, Suite H  
  Altadena, CA 91001  
  Kerry Nock (626) 345-1200  
  10-1-T1.01-9924 ARC

- **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 [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
  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* [12]

- **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* [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


- 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]