



Proposals Selected for Negotiation of Contracts

- **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](#) [1]

- **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](#) [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

- **TRAC Labs, 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

[Photo-Enhanced Hydrogen Transport Technology for Clean Renewable Electrochemical Energy Systems](#) [5]

- **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

[Helium-Hydrogen Recovery System](#) [6]

- **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

[Advanced Particle-in-Cell \(PIC\) Tools for Simulation of Electrodynamic Tether Plasma Interactions](#) [7]

- **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, Thoriaeus 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

[Equipment for Solid State Stir Welding of High Temperature Materials](#) [9]

- **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

- **Voxel, Inc.**

15985 Northwest Schendel Avenue, Suite 200

Beaverton, OR 97006

Debra Ozuna (971) 223-5646

10-1-T4.01-9890 GSFC

[High Sensitivity, Radiation Hard InGaAs LIDAR Receiver for Unmanned Aircraft Systems \(UAS\)](#) [11]

- **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

Dallax, 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](#)

[Tank](#) [30]

- **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]

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