Proposals Selected for Negotiation of Contracts

- **Auburn University**
  310 Samford Hall
  Auburn, AL 36849

**Intelligent Fiber Optic Systems Corporation**

  2363 Calle Del Mundo
  Santa Clara, CA 95054
  Behzad Moslehi (408) 565-9004
  09-1-T2.01-9878 AFRC

  [Highly Reliable Structural Health Monitoring of Smart Composite Vanes for Jet Engine](#) [1]

- **Battelle Memorial Institute**
  505 King Avenue
  Columbus, OH 43201

**Nanoscale Materials, Inc.**

  1310 Research Park Dr.
  Manhattan, KS 66502
  Aaron Madison (785) 537-0179
  09-1-T6.01-9917 JSC

  [Metal Oxide-Carbon Nanocomposites for Aqueous and Nonaqueous Supercapacitors](#) [2]

- **Brigham Young University**
  435 Crabtree Building
  Provo, UT 84602

**Concepts ETI, Inc.**

  217 Billings Farm Road
White River Jct, VT 05001
Robert Hewett (802) 280-6170
09-1-T9.01-9927 MSFC

Extremely High Suction Performance Inducers for Space Propulsion [3]

- Carnegie Mellon University
  5000 Forbes Avenue
  Pittsburgh, PA 15213

  Astrobotic Technology, Inc.
  4551 Forbes Avenue
  Pittsburgh, PA 15213
  David Gump (412) 682-3282
  09-1-T6.02-9912 JSC

  Scalable Gravity Offload System [4]

- Carnegie Mellon University
  5000 Forbes Avenue
  Pittsburgh, PA 15213

  ProtoInnovations, LLC
  1908 Shaw Avenue
  Pittsburgh, PA 15217
  Dimi Apostolopoulos (412) 916-8807
  09-1-T1.02-9872 ARC

  Reliable Autonomous Surface Mobility (RASM) in Support of Human Exploration [5]

- Carnegie Mellon University
  5000 Forbes Avenue
  Pittsburgh, PA 15213

  Ciespace Corporation
  900 Commerce Drive, Suite 201
  Oak Brook, IL 60523
Rodney Phelps (412) 621-1400
09-1-T8.01-9986 LaRC


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

  TRAC Labs, Inc.
  100 N.E. Loop 410, Suite 520
  San Antonio, TX 78216
  David Kortenkamp (281) 461-7884
  09-1-T1.02-9928 ARC

  Integration of Notification with 3D Visualization of Rover Operations [7]

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

  Nanosonic, Inc.
  1485 South Main Street
  Blacksburg, VA 24060
  Lisa Lawson (540) 953-1785
  09-1-T3.01-9920 GRC

  Radiation Resistant, Reconfigurable, Shape Memory Metal Rubber Space Arrays [8]

- Cornell University
  120 Day Hall
  Ithaca, NY 14853

  Structured Materials Industries, Inc.
  201 Circle Drive North, Suite 102/103
  Piscataway, NJ 08854
Gary Tomp (732) 302-9274
09-1-T4.01-9882 GSFC

Hybrid Integrated Photonics for Ultrahigh Throughput Optical Signal Processing [9]

- George Mason University
  4400 University Drive
  Fairfax, VA 22030

Research South, Inc.
555 Sparkman Drive, Suite 1612
Huntsville, AL 35816
Lawrence Spradley (256) 721-1769
09-1-T8.01-9965 LaRC

Mesh Generation and Adaptation for High Reynolds Number RANS Computations [10]

- Georgia Institute of Technology
  505 Tenth Street, NW
  Atlanta, AK 30332

Impact Technologies, LLC
200 Canal View Blvd.
Rochester, NY 14623
Carol Marquardt (585) 627-1923
09-1-T1.01-9951 ARC


- Georgia Institute of Technology
  505 10th Street, NW
  Atlanta, GA 30332

CFX Battery, Inc.
1300 W Optical Drive, Suite 300
Azusa, CA 91702
Sohrab Hossain (626) 610-0660
09-1-T3.01-9864 GRC

Biotemplated Nano-Structured Materials for Advanced Li-ion Batteries [12]

- Lighting Innovations Institute
  20700 North Park Blvd.
  University Heights, OH 44118

  Energy Focus, Inc.
  32000 Aurora Road
  Solon, OH 44139
  Nicholas Berchtold (441) 715-1255

  09-1-T10.02-9869 SSC


- Massachusetts Institute of Technology
  77 Massachusetts Avenue, Building E19-750
  Cambridge, MA 02139

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

  09-1-T2.01-9974 AFRC

  Extensible Data Set Architecture for Systems Analysis [14]

- Massachusetts Institute of Technology
  77 Massachusetts Avenue
  Cambridge, MA 02139

  LongWave Photonics, LLC
  15 Bartlett Street, #3
  Boston, MA 02129
  Alan Lee (310) 650-6276
09-1-T7.01-9887 KSC

Terahertz Quantum Cascade Laser Based 3D Imaging [15]

• Massachusetts Institute of Technology
  77 Massachusetts Avenue
  Cambridge, MA 02139

  Creare, Inc.
  P.O. Box 71
  Hanover, NH 03755
  James Barry (603) 640-2487
  09-1-T3.01-9968 GRC

    A Maximum Power Tracker for Improved Thermophotovoltaic Power Generation [16]

• Missouri University of Science and Technology
  202 Centennial Hall, 300 West 12th Street
  Rolla, MO 65409

    CFX Battery, Inc.
    1300 W Optical Drive, Suite 300
    Azusa, CA 91702
    Sohrab Hossain (626) 610-0660
    09-1-T6.01-9868 JSC

      Advanced Li/CFx Primary Batteries with Non-Flammable Electrolytes [17]

• Rensselaer Polytechnic Institute
  110 8th Street
  Troy, NY 12180

    Simmetrix, Inc.
    10 Halfmoon Executive Park Drive
    Clifton Park, NY 12065
    Mark Beall (518) 348-1639
    09-1-T8.01-9896 LaRC
**Generation and Adaptive Modification of Anisotropic Meshes** [18]

- **Rochester Institute of Technology**
  One Lomb Memorial Drive
  Rochester, NY 14623

- **Firefly Technologies**
  2082 Hackberry Lane
  Shakopee, MN 55379
  Michael Nesnidal (608) 698-0935
  09-1-T3.01-9972 GRC

  **Nanowire Photovoltaic Devices** [19]

- **Rochester Institute of Technology**
  One Lomb Memorial Drive
  Rochester, NY 14623

- **Firefly Technologies**
  2082 Hackberry Lane
  Shakopee, MN 55379
  Michael Nesnidal (608) 698-0935
  09-1-T3.01-9950 GRC

  **Wide Bandgap Nanostructured Space Photovoltaics** [20]

- **Sandia National Laboratories**
  P.O. Box 5800
  Albuquerque, NM 87185

- **ACTA, Inc.**
  2790 Skypark Drive, Suite 310
  Torrance, CA 90505
  James Hudson (310) 530-1008
  09-1-T5.01-9983 JPL
QMU in Integrated Spacecraft System Models [21]

- **Stanford University**
  
  Office of Sponsored Research, 340 Panama Street, MC 4100
  
  Stanford, CA 94305

  **ADVR, Inc.**
  
  2310 University Way, Building 1
  
  Bozeman, MT 59715
  
  Betsy Heckel (406) 522-0388
  
  09-1-T4.01-9939 GSFC

  **A Compact, Waveguide Based Programmable Optical Comb Generator** [22]

- **The Curators of the University of Missouri**
  
  300 W. 12th Street
  
  Rolla, MO 65401

  **M4 Engineering, Inc.**
  
  4020 Long Beach Blvd
  
  Long Beach, CA 90807
  
  Kevin Roughen (562) 981-7797
  
  09-1-T5.01-9926 JPL

  **Quantification of Uncertainties in Integrated Spacecraft System Models** [23]

- **The Regents of the University of Michigan**
  
  3003 South State Street, Room 1072
  
  Ann Arbor, MI 48109

  **Picometrix, LLC**
  
  2925 Boardwalk Drive
  
  Ann Arbor, MI 48104
  
  Robin Risser (734) 864-5605
  
  09-1-T7.01-9931 KSC

  **Time-Domain Terahertz Reflection Holographic Tomography Nondestructive Evaluation System** [24]
• The SCI Institute of the University of Utah
  72 S. Central Campus Drive
  Salt Lake City, UT 84112

ARIBEX
  744 S 400 E
  Orem, UT 84097
  Clark Turner (801) 226-5522
  09-1-T7.01-9948 KSC
  Three-Dimensional Backscatter X-Ray Imaging System [25]

• The University of Iowa, Div. of Sponsored Programs
  2 Gilmore Hall
  Iowa City, IA 52242

Giner, Inc.
  89 Rumford Avenue
  Newton, MA 02466
  Anthony LaConti (781) 529-0501
  09-1-T6.01-9988 JSC
  Magnetically Modified Asymmetric Supercapacitors [26]

• The University of Kansas Center for Research, Inc.
  2385 Irving Hill Road
  Lawrence, KS 66045

American GNC Corporation
  888 Easy Street
  Simi Valley, CA 93065
  Emily Melgarejo (805) 582-0582
  09-1-T1.01-9862 ARC
  Advanced Structural Health Monitoring System for Comprehensive Real-Time Vehicle Characterization [27]
• The University of Washington  
  1100 NE 45th Street, Suite 300  
  Seattle, WA 98105  

Stirling Dynamics, Inc.  
4030 Lake Washington Boulevard North East, #205  
Kirkland, WA 98033  
Dennis Messenger (425) 827-7476  
09-1-T2.01-9961 AFRC  
Aeroelastic/Aeroservoelastic Uncertainty and Reliability of Advanced Aerospace Vehicles in Flight and Ground Operations [28]

• University of Central Florida  
4000 Central Florida Blvd., ENGR1-307  
Orlando, FL 32816  

Orion Propulsion, Inc.  
1525 Perimeter Pkwy Suite 250  
Huntsville, AL 35806  
Gregory Zsidisin (256) 327-7618  
09-1-T9.01-9844 MSFC  
Carbon Nano-Composite Ablative Rocket Nozzles [29]

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

Sustainable Innovations, LLC  
160 Oak Street  
Glastonbury, CT 06033  
Trent Molter (860) 652-9690  
09-1-T10.01-9906 SSC  
Hydrogen Recovery System [30]
- **University of Connecticut**
  
  438 Whitney Road Ext., Unit 1133
  
  Storrs, CT 06269
  
  **Plasma Processes, LLC.**
  
  4914 Moores Mill Road
  
  Huntsville, AL 35811
  
  Timothy McKechnie (256) 851-7653
  
  09-1-T3.01-9921 GRC
  
  [Microchannel Thermo Catalytic Ignition for Advanced Mono- and Bipropellants](#) [31]

- **University of Hawaii**
  
  2530 Dole Street, Sakamaki D-200
  
  Honolulu, HI 96822
  
  **Sierra Lobo, Inc.**
  
  102 Pinnacle Drive
  
  Fremont, OH 43420
  
  Mark Haberbusch (419) 499-9653
  
  09-1-T10.01-9918 SSC
  
  [Gaseous Helium Reclamation at Rocket Test Systems](#) [32]

- **University of Illinois**
  
  OSPRA, 1901 S. First Street, Suite A
  
  Champaign, IL 61820
  
  **IllinoisRocstar, LLC**
  
  60 Hazelwood Drive; P. O. Box 3001
  
  Champaign, IL 61826
  
  William Dick (217) 417-0885
  
  09-1-T5.01-9952 JPL
  
  [Efficient Quantification of Uncertainties in Complex Computer Code Results](#) [33]
• University of Michigan
  Room 1061, 3003 S. State Street
  Ann Arbor, MI 48109

  Streamline Numerics, Inc.
  3221 North West 13th Street, Suite A
  Gainesville, FL 32609
  Siddharth Thakur (352) 271-8841
  09-1-T9.01-9969 MSFC
  Advanced Unsteady Turbulent Combustion Simulation Capability for Space Propulsion Systems [34]

• University of Michigan
  3003 South State Street, Room 1058
  Ann Arbor, MI 48109

  ElectroDynamic Applications, Inc.
  P.O. Box 131460
  Ann Arbor, MI 48113
  Jonathan Zagel (734) 786-1434
  09-1-T3.01-9881 GRC
  High Power High Thrust Ion Thruster (HPHTion): 50 CM Ion Thruster for Near-Earth Applications [35]

• University of Texas at Dallas
  Box 860688, MP 15
  Richardson, TX 75083

  Lynntech, Inc.
  2501 Earl Rudder Freeway South
  College Station, TX 77845
  G. Hisaw (979) 693-0017
  09-1-T2.01-9899 AFRC
  Acoustic Reduction of Flow Separation [36]
Balcones Technologies, LLC
10532 Grand Oak Circle
Austin, TX 78750
Joseph Beno (512) 918-1496
09-1-T1.02-9908 ARC

Active Electromechanical Suspension System for Planetary Rovers [37]

Vanderbilt University
2301 Vanderbilt Place Station B #7749
Nashville, TN 37235

TRACLabs, Inc.
100 N.E. Loop 410, Suite 520
San Antonio, TX 78216
David Kortenkamp (281) 461-7884
09-1-T1.01-9857 ARC

Distributed Diagnosis, Prognosis and Recovery for Complex Systems [38]

Vanderbilt University, Division of Sponsored Research
Station B #357749, 2301 Vanderbilt Place
Nashville, TN 37235

Scientic, Inc.
555 Sparkman Drive, Suite 214
Huntsville, AL 35816
Gary Grant (256) 319-0858
09-1-T6.01-9891 JSC

Enhanced Carbon Nanotube Ultracapacitors [39]

Virginia Polytechnic Institute and State University
1880 Pratt Drive, Suite 2006
Blacksburg, VA 24060

**Tao of Systems Integration, Inc.**
144 Research Drive
Hampton, VA 23666
Siva Mangalam (757) 220-5040
09-1-T2.01-9944 AFRC

*Wide Range Flow and Heat Flux Sensors for In-Flight Flow Characterization* [40]

- **Virginia Polytechnic Institute and State University**
  Bradley Department of Electrical and Computer Engineering
  Blacksburg, VA 24061

**Nanosonic, Inc.**
1485 South Main Street
Blackburg, VA 24060
Lisa Lawson (540) 953-1785
09-1-T6.01-9894 JSC

*Self Assembled Carbon Nanotube Enhanced Ultracapacitors* [41]

- **Virginia Polytechnic Institute and State University**
  1880 Pratt Drive, Suite 2006
  Blackburg, VA 24061

**ZONA Technology, Inc.**
9489 East Ironwood Square Drive
Scottsdale, AZ 85258
Jennifer Scherr (480) 945-9988
09-1-T2.01-9980 AFRC

*Extension of an Object Oriented Multidisciplinary Analysis Optimization (MDAO) Environment* [42]

- **Wright State University**
  3640 Colonel Glenn Hwy
Dayton, OH 45435

**Tech-X Corporation**
5621 Arapahoe Avenue, Suite A
Boulder, CO 80303
Leslie Rosczyk (720) 974-1855
09-1-T3.01-9893 GRC

[Next-Generation Ion Thruster Design Tool to Support Future Space Missions](#) [43]

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