Proposals Selected for Negotiation of Contracts

- **Advanced Ceramics Manufacturing**
  7800A S. Nogales Highway
  Tucson, AZ 85756
  Stephen Turcotte (520) 547-0850

  **Vilanova University**
  800 Lancaster
  Villanova, PA 19085
  12-1-T10.01-9724 SSC

  [Ultra High Temperature Refractory Materials](#) [1]

- **Advanced Scientific Concepts, Inc.**
  135 East Ortega Street
  Santa Barbara, CA 93101
  JoAnn Stettner (805) 966-3331

  **University of Minnesota**
  210 Delaware Street Southeast
  Minneapolis, MN 55455
  12-1-T4.01-9744 ARC

  [Robotics MobileRobot Navigation](#) [2]

- **Amethyst Research Inc.**
  123 Case Circle
  Ardmore, OK 73401
  Ryan Cottier (580) 229-7109

  **University of Oklahoma**
440 West Brooks St.
Norman, OK 73019
12-1-T8.02-9770 JPL

Detectors with Improved Near-to-Mid IR Performance and Reduced Cooling Requirements [3]

- **Angstrom Designs, Inc.**
  1204 Calle Del Sol
  Santa Barbara, CA 93120
  Tim Halsey (805) 284-4535

  **University of California at Santa Barbara**
  3227 Cheadle Hall
  Santa Barbara, CA 93106
  12-1-T2.01-9819 GRC


- **Aurora Flight Sciences Corporation**
  4 Cambridge Center
  Cambridge, MA 02142
  Scott Hart (617) 500-4892

  **University of Maryland**
  3112 Lee Building
  College Park, MD 20742
  12-1-T5.01-9952 LaRC

  Autonomous Navigation in GNSS-Denied Environments [5]

- **Boston Applied Technologies, Inc.**
  6F Gill Street
  Woburn, MA 01801
  Yingyin Zou (781) 935-2800

  **Kent State University**
P. O. Box 5190, 1425 University Esplanade
Kent, OH 44242
12-1-T8.02-9963 JPL


- CFD Research Corporation
  215 Wynn Drive, 5th Floor
  Huntsville, AL 35805
  Silvia Harvey (256) 726-4858

Mississippi State University
P. O. Box 9637
Mississippi State, MS 39762
12-1-T1.01-9946 MSFC

High-Fidelity Prediction of Launch Vehicle Lift-off Acoustic Environment [7]

- CFD Research Corporation
  215 Wynn Drive, 5th Floor
  Huntsville, AL 35805
  Silvia Harvey (256) 726-4858

University of Florida
P.O. Box 116550 (339) Weil Hall
Gainsville, FL 32611
12-1-T4.03-9945 KSC

Particle Flow Physics Modeling for Extreme Environments [8]

- Compositex, Inc.
  11815 Littler Road
  Sandy, UT 84092
  Daniel Moser (801) 502-4379

Purdue University
610 Purdue Mall, Hovde Hall
West Lafayette, IN 47907
12-1-T1.01-9781 MSFC

**Novel Low Cost Booster Propulsion Development and Demonstration** [9]

- **Creare, Inc.**
  P.O. Box 71
  Hanover, NH 03755
  James Barry (603) 643-3800

**Virginia Polytechnic Institute and State University**
1880 Pratt Drive, Suite 2006 (0170)
Blacksburg, VA 24060
12-1-T8.01-9837 GSFC

**Ultra-Miniaturized Star Tracker for Small Satellite Attitude Control** [10]

- **Direct Vapor Technologies International, Inc.**
  2 Boars Head Lane
  Charlottesville, VA 22903
  Matthew Terry (434) 296-3678

**Univ. of Pittsburgh**
123 University Place
Pittsburgh, PA 15213
12-1-T12.01-9868 GRC


- **Emergent Space Technologies, Inc.**
  6411 Ivy Lane, Suite 303
  Greenbelt, MD 20770
  David Gaylor (303) 656-9035

**University of Colorado Boulder**
3100 Marine Street
Boulder, CO 80303
12-1-T8.01-9801 GSFC

A Collective Detection Based GPS Receiver for Small Satellites [12]

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

New Mexico Tech
801 Leroy Place
Socorro, NM 87801
12-1-T4.02-9828 AFRC

Optical Feather and Foil for Shape and Dynamic Load Sensing of Critical Flight Surfaces [13]

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

Vanderbilt University
2301 Vanderbilt Place, PMB407749
Nashville, TN 37240
12-1-T12.02-9933 MSFC

In-Space Friction Stir Welding Machine [14]

• Materials Research and Design, Inc.
300 East Swedesford Road
Wayne, PA 19087
Brian Sullivan (610) 964-6131

University of Dayton Research Institute
300 College Park
Dayton, OH 45469
12-1-T12.01-9928 GRC

Improved Foreign Object Damage Performance for 2D Woven Ceramic Matrix Composites [15]

- **MaXentric Technologies, LLC**
  2071 Lemoine Avenue, Suite 302
  Fort Lee, NJ 07024
  Houman Ghajari (858) 272-8800

  **University of California, San Diego**
  9500 Gilman Drive
  La Jolla, CA 92093

  12-1-T11.01-9737 GSFC

  **RUSH** [16]

- **Mesh Robotics, LLC**
  142 Crescent Drive
  Pittsburgh, PA 15228
  Michael Wagner (412) 606-3842

  **Carnegie Mellon University**
  5000 Forbes Avenue
  Pittsburgh, PA 15213

  12-1-T4.01-9920 ARC

  **MeshSLAM: Robust Localization and Large-Scale Mapping in Barren Terrain** [17]

- **Nanosonic, Inc.**
  158 Wheatland Drive
  Pembroke, VA 24136
  Melissa Campbell (540) 626-6266

  **Virginia Tech**
  122 Randolph Hall
  Blacksburg, VA 24060
12-1-T9.01-9759 KSC

**Semiconductor Nanomembrane Based Flight Sensors and Arrays** [18]

- **Prioria Robotics, Inc.**
  104 North Main Street Suite 200
  Gainesville, FL 32601
  Bryan Frota (352) 505-2188

**University of Florida**
219 Grinter Hall
Gainesville, FL 32611
12-1-T5.01-9799 LaRC

**Local Navigation in GNSS and Magnetometer-Denied Environments** [19]

- **Qualtech Systems, Inc.**
  99 East River Drive
  East Hartford, CT 06108
  Sudipto Ghoshal (860) 761-9341

**Montana State University**
Department of Computer Science, EPS 363
Bozeman, MT 59717
12-1-T13.01-9887 JSC

**Risk Engineering, Sciences, Computation, and Informed Decisions** [20]

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

**Louisiana Tech University**
1507 Wyly Tower, P.O. Box 3092
Ruston, LA 71272
12-1-T3.01-9994 SSC
MEMS Based Solutions for an Integrated and Miniaturized Multi-Spectrum Energy Harvesting and Conservation System [21]

• RNET Technologies, Inc.
  240 West Elmwood Drive, Suite 2010
  Dayton, OH 45459
  Vaidyanathan Nagarajan (937) 433-2886

Argonne National Laboratory
  9700 South Cass Avenue
  Lemont, IL 60439
  12-1-T11.01-9699 GSFC
  OrFPGA: An Empirical Performance Tuning Tool for FPGA Designs [22]

• 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, SuiteA
  Champaign, IL 61820
  12-1-T9.01-9754 AFRC
  Modular Electric Propulsion Test Bed Aircraft [23]

• Scientific Systems Company, Inc.
  500 West Cummings Park, Suite 3000
  Woburn, MA 01801
  Michael McComas (603) 860-6016

Massachusetts Institute of Technology
  77 Mass Avenue, Bldg NE 18-901
  Cambridge, MA 02139
  12-1-T15.02-9807 LaRC
**Integrated Motion Planning and Autonomous Control Technology for Autonomous ISR** [24]

- **Sentix, LLC**
  801 Sycolin Road, Suite 306
  Leesburg, VA 20175
  Chris Stevenson (540) 454-7458

**Brigham Young University**
A-258 ASB
Provo, UT 84602
12-1-T15.02-9777 LaRC

**Mission-Aware Payloads for Unmanned Platforms** [25]

- **Space Micro, Inc.**
  10237 Flanders Court
  San Diego, CA 92121
  David Strobel (858) 332-0700

**Arizona State University (ASU)**
PO Box 875706
Tempe, AZ 85287
12-1-T15.01-9798 JSC

**Radiation Hard Monolithic SDRAM to Support DDR2 and DDR3 Architectures** [26]

- **Streamline Automation, LLC**
  3100 Fresh Way Southwest
  Huntsville, AL 35805
  Aijalon Putzier (256) 713-1220

**Wake Forest University**
1834 Wake Forest Road
Winston-Salem, NC 27106
12-1-T3.01-9840 SSC
Power Generating Coverings and Casings [27]

- **Streamline Numerics, Inc.**
  3221 North West 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
  12-1-T1.01-9979 MSFC

  High Performance Multiphase Combustion Tool Using Level Set-Based Primary Atomization Coupled with Flamelet Models [28]

- **Structured Materials Industries, Inc.**
  201 Circle Drive North, Suite 102/103
  Piscataway, NJ 20878
  Gary Tompa (732) 302-9274

  **UCSC-OSP**
  1156 High St
  Santa Cruz, CA 95064
  12-1-T3.01-9691 SSC

  High-Efficiency, Nanowire Based Thermoelectric Tapes for Waste Heat Recovery [29]

- **Systems Technology, Inc.**
  13766 Hawthorne Boulevard
  Hawthorne, CA 90250
  Suzie Fosmore (310) 679-2281

  **Univeristy of Florida**
  339 Weil Hall
  Gainesville, FL 32611
  12-1-T4.02-9983 AFRC
• **Systima Technologies, Inc.**
  1832 180th Street South East
  Bothell, WA 98012
  Tom Prenzlow (425) 487-4020

  **University of Washington, Dept. Aeronautics & Astronautics**
  Dept. of Aeronautics & Astronautics, Box 352250
  Seattle, WA 98195
  12-1-T2.01-9838 GRC

  [Advanced Green Micropropulsion System](#) [31]

• **Wavefront, LLC**
  7 Johnston Circle
  Basking Ridge, NJ 07920
  Jie Yao (609) 558-4806

  **Space Dynamics Laboratory**
  1695 North Research Park Way
  North Logan, UT 84341
  12-1-T8.03-9846 ARC

  [Conjugate Etalon Spectral Imager (CESI) & Scanning Etalon Methane Mapper (SEMM)](#) [32]

• **X-wave Innovations, Inc.**
  407 Upshire Circle
  Gaithersburg, MD 20878
  Jennifer Duan (301) 948-8351

  **North Carolina State University**
  3211 Broughton Hall
  Raleigh, NC 27695
  12-1-T9.01-9741 AFRC

  [Bayesian Framework Based Damage Segmentation (BFDS) with Time-Reversal Tomography (TRT) for](#)
Damage Characterization in Complex Aircraft Structures [33]

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