Proposals Selected for Negotiation of Contracts

- **Argonne National Laboratory**
  9700 South Cass Avenue
  Lemont, IL 60439

- **RNET Technologies, Inc.**
  240 West Elmwood Drive, Suite 2010
  Dayton, OH 45459
  Vaidyanathan Nagarajan (937) 433-2886
  12-1-T11.01-9699 GSFC
  [OrFPGA: An Empirical Performance Tuning Tool for FPGA Designs](#) [1]

- **Arizona State University (ASU)**
  PO Box 875706
  Tempe, AZ 85287

- **Space Micro, Inc.**
  10237 Flanders Court
  San Diego, CA 92121
  David Strobel (858) 332-0700
  12-1-T15.01-9798 JSC
  [Radiation Hard Monolithic SDRAM to Support DDR2 and DDR3 Architectures](#) [2]

- **Brigham Young University**
  A-258 ASB
  Provo, UT 84602

- **Sentix, LLC**
  801 Sycolin Road, Suite 306
Leesburg, VA 20175
Chris Stevenson (540) 454-7458
12-1-T15.02-9777 LaRC

Mission-Aware Payloads for Unmanned Platforms [3]

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

  **Mesh Robotics, LLC**
  
  142 Crescent Drive
  
  Pittsburgh, PA 15228

  Michael Wagner (412) 606-3842

  12-1-T4.01-9920 ARC

  MeshSLAM: Robust Localization and Large-Scale Mapping in Barren Terrain [4]

- **Kent State University**
  
  P. O. Box 5190, 1425 University Esplanade
  
  Kent, OH 44242

  **Boston Applied Technologies, Inc.**
  
  6F Gill Street
  
  Woburn, MA 01801

  Yingyin Zou (781) 935-2800

  12-1-T8.02-9963 JPL


- **Louisiana Tech University**
  
  1507 Wyly Tower, P.O. Box 3092
  
  Ruston, LA 71272

  **Radiance Technologies, Inc.**
  
  350 Wynn Drive
  
  Huntsville, AL 35805
Brad Atkins (256) 489-8584
12-1-T3.01-9994 SSC


• Massachusetts Institute of Technology

77 Mass Avenue, Bldg NE 18-901
Cambridge, MA 02139

Scientific Systems Company, Inc.
500 West Cummings Park, Suite 3000
Woburn, MA 01801
Michael McComas (603) 860-6016
12-1-T15.02-9807 LaRC

Integrated Motion Planning and Autonomous Control Technology for Autonomous ISR [7]

• Mississippi State University

449 Hardy Road, 133 Ethredge Hall
Mississippi State, MS 39762

Streamline Numerics, Inc.
3221 North West 13th Street, Suite A
Gainesville, FL 32609
Siddharth Thakur (352) 271-8841
12-1-T1.01-9979 MSFC

High Performance Multiphase Combustion Tool Using Level Set-Based Primary Atomization Coupled with Flamelet Models [8]

• Mississippi State University

P. O. Box 9637
Mississippi State, MS 39762

CFD Research Corporation
215 Wynn Drive, 5th Floor
Huntsville, AL 35805
Silvia Harvey (256) 726-4858
12-1-T1.01-9946 MSFC

High-Fidelity Prediction of Launch Vehicle Lift-off Acoustic Environment [9]

- Montana State University
  Department of Computer Science, EPS 363
  Bozeman, MT 59717
Qialtech Systems, Inc.
  99 East River Drive
  East Hartford, CT 06108
  Sudipto Ghoshal (860) 761-9341
  12-1-T13.01-9887 JSC
  Risk Engineering, Sciences, Computation, and Informed Decisions [10]

- New Mexico Tech
  801 Leroy Place
  Socorro, NM 87801
Intelligent Fiber Optic Systems Corporation
  2363 Calle Del Mundo
  Santa Clara, CA 95054
  Behzad Moslehi (408) 565-9004
  12-1-T4.02-9828 AFRC

- North Carolina State University
  3211 Broughton Hall
  Raleigh, NC 27695
X-wave Innovations, Inc.
  407 Upshire Circle
  Gaithersburg, MD 20878
Jennifer Duan (301) 948-8351

12-1-T9.01-9741 AFRC

Bayesian Framework Based Damage Segmentation (BFDS) with Time-Reversal Tomography (TRT) for Damage Characterization in Complex Aircraft Structures [12]

- Purdue University
  610 Purdue Mall, Hovde Hall
  West Lafayette, IN 47907

  Compositex, Inc.
  11815 Littler Road
  Sandy, UT 84092
  Daniel Moser (801) 502-4379
  12-1-T1.01-9781 MSFC

  Novel Low Cost Booster Propulsion Development and Demonstration [13]

- Space Dynamics Laboratory
  1695 North Research Park Way
  North Logan, UT 84341

  Wavefront, LLC
  7 Johnston Circle
  Basking Ridge, NJ 07920
  Jie Yao (609) 558-4806
  12-1-T8.03-9846 ARC

  Conjugate Etalon Spectral Imager (CESI) & Scanning Etalon Methane Mapper (SEMM) [14]

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

  Rolling Hills Research Corporation
  420 North Nash Street
  El Segundo, CA 90245
Brian Kramer (310) 640-8781
12-1-T9.01-9754 AFRC

*Modular Electric Propulsion Test Bed Aircraft* [15]

- **UCSC-OSP**
  
  1156 High St
  
  Santa Cruz, CA 95064

  **Structured Materials Industries, Inc.**
  
  201 Circle Drive North, Suite 102/103
  
  Piscataway, NJ 20878
  
  Gary Tompa (732) 302-9274
  
  12-1-T3.01-9691 SSC

  *High-Efficiency, Nanowire Based Thermoelectric Tapes for Waste Heat Recovery* [16]

- **Univ. of Pittsburgh**
  
  123 University Place
  
  Pittsburgh, PA 15213

  **Direct Vapor Technologies International, Inc.**
  
  2 Boars Head Lane
  
  Charlottesville, VA 22903
  
  Matthew Terry (434) 296-3678
  
  12-1-T12.01-9868 GRC

  *Advanced Deposition Capability for Oxidation & Corrosion Protection Coatings* [17]

- **Univeristy of Florida**
  
  339 Weil Hall
  
  Gainesville, FL 32611

  **Systems Technology, Inc.**
  
  13766 Hawthorne Boulevard
  
  Hawthorne, CA 90250
Suzie Fosmore (310) 679-2281
12-1-T4.02-9983 AFRC

**Attitude Control Enhancement Using Distributed Wing Load Sensing for Dynamic Servoelastic Control** [18]

- **University of California at Santa Barbara**
  3227 Cheadle Hall
  Santa Barbara, CA 93106

  **Angstrom Designs, Inc.**
  1204 Calle Del Sol
  Santa Barbara, CA 93120
  Tim Halsey (805) 284-4535
  12-1-T2.01-9819 GRC


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

  **MaXentric Technologies, LLC**
  2071 Lemoine Avenue, Suite 302
  Fort Lee, NJ 07024
  Houman Ghajari (858) 272-8800
  12-1-T11.01-9737 GSFC

  **RUSH** [20]

- **University of Colorado Boulder**
  3100 Marine Street
  Boulder, CO 80303

  **Emergent Space Technologies, Inc.**
  6411 Ivy Lane, Suite 303
  Greenbelt, MD 20770
David Gaylor (303) 656-9035
12-1-T8.01-9801 GSFC

A Collective Detection Based GPS Receiver for Small Satellites [21]

- University of Dayton Research Institute
  300 College Park
  Dayton, OH 45469

Materials Research and Design, Inc.
300 East Swedesford Road
Wayne, PA 19087
Brian Sullivan (610) 964-6131
12-1-T12.01-9928 GRC

Improved Foreign Object Damage Performance for 2D Woven Ceramic Matrix Composites [22]

- University of Florida
  219 Grinter Hall
  Gainesville, FL 32611

Prioria Robotics, Inc.
104 North Main Street Suite 200
Gainesville, FL 32601
Bryan Frota (352) 505-2188
12-1-T5.01-9799 LaRC

Local Navigation in GNSS and Magnetometer-Denied Environments [23]

- University of Florida
  P.O. Box 116550 (339) Weil Hall
  Gainesville, FL 32611

CFD Research Corporation
215 Wynn Drive, 5th Floor
Huntsville, AL 35805
Silvia Harvey (256) 726-4858
12-1-T4.03-9945 KSC

Particle Flow Physics Modeling for Extreme Environments [24]

- University of Maryland
  
  3112 Lee Building

  College Park, MD 20742

  Aurora Flight Sciences Corporation
  
  4 Cambridge Center

  Cambridge, MA 02142

  Scott Hart (617) 500-4892

  12-1-T5.01-9952 LaRC

  Autonomous Navigation in GNSS-Denied Environments [25]

- University of Minnesota
  
  210 Delaware Street Southeast

  Minneapolis, MN 55455

  Advanced Scientific Concepts, Inc.
  
  135 East Ortega Street

  Santa Barbara, CA 93101

  JoAnn Stettner (805) 966-3331

  12-1-T4.01-9744 ARC

  Robotics MobileRobot Navigation [26]

- University of Oklahoma
  
  440 West Brooks St.

  Norman, OK 73019

  Amethyst Research Inc.
  
  123 Case Circle

  Ardmore, OK 73401

  Ryan Cottier (580) 229-7109
Detectors with Improved Near-to-Mid IR Performance and Reduced Cooling Requirements [27]

- **University of Washington, Dept. Aeronautics & Astronautics**
  Dept. of Aeronautics & Astronautics, Box 352250
  Seattle, WA 98195

  **Systima Technologies, Inc.**
  1832 180th Street South East
  Bothell, WA 98012
  Tom Prenzlow (425) 487-4020
  12-1-T2.01-9838 GRC

  Advanced Green Micropropulsion System [28]

- **Vanderbilt University**
  2301 Vanderbilt Place, PMB407749
  Nashville, TN 37240

  **Longhurst Engineering, PLC**
  234 South Ewing Street
  Guthrie, KY 42234
  William Longhurst (615) 289-1162
  12-1-T12.02-9933 MSFC

  In-Space Friction Stir Welding Machine [29]

- **Vilanova University**
  800 Lancaster
  Villanova, PA 19085

  **Advanced Ceramics Manufacturing**
  7800A S. Nogales Highway
  Tucson, AZ 85756
  Stephen Turcotte (520) 547-0850
  12-1-T10.01-9724 SSC
Ultra High Temperature Refractory Materials [30]

- Virginia Polytechnic Institute and State University
  1880 Pratt Drive, Suite 2006 (0170)
  Blacksburg, VA 24060

  Creare, Inc.
  P.O. Box 71
  Hanover, NH 03755
  James Barry (603) 643-3800
  12-1-T8.01-9837 GSFC
  Ultra-Miniaturized Star Tracker for Small Satellite Attitude Control [31]

- Virginia Tech
  122 Randolph Hall
  Blacksburg, VA 24060

  Nanosonic, Inc.
  158 Wheatland Drive
  Pembroke, VA 24136
  Melissa Campbell (540) 626-6266
  12-1-T9.01-9759 KSC
  Semiconductor Nanomembrane Based Flight Sensors and Arrays [32]

- Wake Forest University
  1834 Wake Forest Road
  Winston-Salem, NC 27106

  Streamline Automation, LLC
  3100 Fresh Way Southwest
  Huntsville, AL 35805
  Aijalon Putzier (256) 713-1220
  12-1-T3.01-9840 SSC