Proposals Selected for Negotiation of Contracts

- **Advanced Space, LLC**
  
  2100 Central Avenue, Suite 102  
  Boulder, CO 80301  
  Bradley Cheetham (720) 545-9189

  **The Regents of the University of Colorado**  
  3100 Marine Street Room 479  
  Boulder, CO 80303  
  17-2-T11.02-9964 GSFC  
  [Efficient cFS-based On-board Lamberts Solution for DSMs](#) [1]

- **American GNC Corporation**
  
  888 Easy Street  
  Simi Valley, CA 93065  
  Emily Melgarejo (805) 582-0582

  **Rensselaer Polytechnic Institute**  
  110 8th Street  
  Troy, NY 12180  
  17-2-T13.01-9800 SSC  
  [Through Wall Wireless Intelligent Sensor and Health Monitoring (TWall-ISHM) System](#) [2]

- **CFD Research Corporation**
  
  701 McMillian Way Northwest, Suite D  
  Huntsville, AL 35806  
  Silvia Harvey (256) 726-4858

  **Mississippi State University**
Lee Boulevard
Mississippi State, MS
17-2-T1.02-9953 MSFC

Transient Acoustic Environment Prediction Tool for Launch Vehicles in Motion During Early Lift-Off [3]

- CFD Research Corporation
  701 McMillian Way Northwest, Suite D
  Huntsville, AL 35806
  Silvia Harvey (256) 726-4858

  Mississippi State University
  Lee Boulevard
  Mississippi State, MS
  17-2-T1.02-9954 MSFC


- Composites Automation, LLC
  9 Adelaide Court
  Newark, DE 19702
  Dirk Heider (302) 831-8898

  University of Delaware
  210 - B Hullihen Hall
  Newark, DE 19716
  17-2-T12.03-9971 LaRC

  Design and Process Development of Thin-Ply Composites [5]

- Continuum Dynamics, Inc.
  34 Lexington Avenue
  Ewing, NJ 8618
  Barbara Agans (609) 538-0444

  Pennsylvania State University
  112 Hammond Building
University Park, PA 16802
17-2-T15.01-9907 ARC

Distributed Electric Propulsion Aircraft Comprehensive Analysis and Design Tool [6]

- Creare, LLC
  16 Great Hollow Road
  Hanover, NH 3755
  Robert Kline-Schoder (603) 640-2487

Dartmouth College
207 Parkhurst Hall
Hanover, NH
17-2-T6.02-9840 JSC

Volume Sensor for Flexible Fluid Reservoirs in Microgravity [7]

- CrossTrac Engineering, Inc.
  2730 Saint Giles Lane
  Mountain View, CA 94040
  John Hanson (408) 898-0376

Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 77058
17-2-T11.02-9927 GSFC

Optical Intersatellite Communications for CubeSat Swarms [8]

- EleQuant Knowledge Innovation Data Science, LLC
  1801 Swann Street Northwest, #302
  Washington, DC 20009
  Regina Llopis (415) 978-9800

Case Western Reserve University
10900 Euclid Ave.
Holomorphic Embedding for Loadflow Integration of Operational Thermal and Electric Reliable Procedural Systems [9]

- **Empirical Systems Aerospace, Inc.**
  3580 Sueldo Street
  San Luis Obispo, CA 93401
  Andrew Gibson (805) 704-1865

  University of Illinois at Urbana-Champaign
  601 E John Street
  Champaign, IL
  17-2-T15.01-9848 AFRC

  Demonstration of Autonomous Differential Throttle-based Flight Control for Aircraft with Distributed Electric Propulsion [10]

- **Exquadrum, Inc.**
  12130 Rancho Road
  Adelanto, CA 92301
  Glen Goede (760) 246-0279

  University of Arizona
  1177 E. 4th Street, Shantz Building
  Tucson, AZ 85721
  17-2-T1.01-9985 MSFC

  Bantam Rocket Affordable SLV Stage (BRASS) [11]

- **Faraday Technology, Inc.**
  315 Huls Drive
  Englewood, OH 45315
  E. Jennings Taylor (937) 836-7749

  University of Puerto Rico
  PO Box 21790
San Juan, PR 931
17-2-T6.01-9949 ARC

Next Generation Water Recovery for a Sustainable Closed Loop Living [12]

- Freedom Photonics, LLC
  41 Aero Camino
  Santa Barbara, CA 93117
  Milan Mashanovitch (805) 967-4900

  University of California-Santa Barbara
  5221 Cheadle Hall
  Santa Barbara, CA
  17-2-T8.02-9810 GSFC

  High Performance 3D Photonic Integration for Space Applications [13]

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

  Stanford University
  450 Serra Mall
  Stanford, CA
  17-2-T8.02-9931 JSC

  Multifunctional Integrated Photonic Lab-on-a-Chip for Astronaut Health Monitoring [14]

- Jaycon Systems
  801 East Hibiscus
  Melbourne, FL 32901
  Jiten Chandiramani (321) 505-4560

  Florida Institute of Technology
  150 W University Blvd
Melbourne, FL 32901
17-2-T11.02-9854 ARC

*Vision-Based Navigation for Formation Flight onboard ISS* [15]

- **Laser & Plasma Technologies, LLC**
  1100 Exploration Way
  Hampton, VA 23666
  Nita Gupta (757) 876-8761

**University of Virginia**
Albert H. Small Building 159 Engineer’s Way. P.O. Box 400257
Charlottesville, VA 22904
17-2-T8.01-9801 LaRC

*Development of an Optic Fiber Based Hybrid Spectroscopy* [16]

- **Luna Innovations, Inc.**
  301 1st Street Southwest, Suite 200
  Roanoke, VA 24011
  Michael Pruzan (540) 769-8430

**Aerospace Federally Funded Research and Development Center**
2310 E. El Segundo Blvd.
El Segundo, CA
17-2-T12.02-9846 KSC

*Efficient Composite Repair Methods for Launch Vehicles* [17]

- **Luna Innovations, Inc.**
  301 1st Street Southwest, Suite 200
  Roanoke, VA 24011
  Lisa Powell (434) 483-4246

**The Regents of the University of California, Santa Barbara**
3227 Cheadle Hall, 3rd Floor
Santa Barbara, CA 93106
17-2-T8.02-9849 GSFC

Heterogeneous Silicon Photonics OFDR Sensing System [18]

- **PC Krause and Associates, Inc.**
  3000 Kent Avenue, Suite C1-100
  West Lafayette, IN 47906
  Teresa Arens (317) 410-1865

  **Purdue University-Main Campus**
  Hovde Hall of Administration
  West Lafayette, IN
  17-2-T3.02-9778 GRC

  Autonomous Power Controller for Mission Critical Microgrids [19]

- **Physical Sciences, Inc.**
  20 New England Business Center
  Andover, MA 1810
  B. David Green (978) 689-0003

  **Purdue University**
  155 S. Grant Street
  West Lafayette, IN 47907
  17-2-T3.01-9959 SSC

  Electrical Power from Thermal Energy Scavenging in High Temperature Environments [20]

- **Princeton Satellite Systems**
  6 Market Street, Suite 926
  Plainsboro, NJ 8536
  Michael Paluszek (609) 275-9606

  **Princeton Plasma Physics Laboratory**
  PO Box 451
  Princeton, NJ 8543
17-2-T2.01-9960 GRC

Superconducting Coils for Small Nuclear Fusion Rocket Engines [21]

- **QuesTek Innovations, LLC**
  1820 Ridge Avenue
  Evanston, IL 60201
  Voula Colburn (847) 425-8215

  **University of Pittsburgh-Pittsburgh Campus**
  4200 Fifth Avenue
  Pittsburgh, PA
  17-2-T12.04-9880 LaRC

  Integrated Computational Material Engineering Technologies for Additive Manufacturing [22]

- **Radiometrics Corporation**
  4909 Nautilus Court North, #110
  Boulder, CO 80301
  Dick Rochester (303) 619-0368

  **University of Oklahoma-Norman Campus**
  660 Parrington Oval
  Norman, OK
  17-2-T1.03-9934 KSC

  Launch Weather Decision Support System [23]

- **Scientific Systems Company, Inc.**
  500 West Cummings Park, Suite 3000
  Woburn, MA 1801
  Lora Loyall (781) 933-5355

  **University of Washington**
  Gerberding Hall G80 Box 351202
  Seattle, WA 98195
  17-2-T4.03-9829 JPL
Distributed Intelligent Swarm Control & Utilization System (DISCUS): Further Maturation and Demonstration [24]

- **Space Lab Technologies, LLC**
  5455 Spine Road, Suite ME
  Boulder, CO 80301
  Christine Escobar (720) 309-8475

**Regents of the University of Colorado**
3100 Marine Street
Boulder, CO 80303
17-2-T7.02-9876 KSC

**uG-LilyPond - Floating Plant Pond for Microgravity** [25]

- **Streamline Numerics, Inc.**
  3221 North West 13th Street, Suite A
  Gainesville, FL 32609
  Siddharth Thakur (352) 271-8841

**Stanford University**
450 Serra Mall
Stanford, CA
17-2-T1.02-9942 SSC

**High Performance Simulation Tool for Multiphysics Propulsion Using Fidelity-Adaptive Combustion Modeling** [26]

- **Terves, Inc.**
  24112 Rockwell Drive, Suite C
  Euclid, OH 44117
  Nicholas Farkas (216) 404-0053

**Pennsylvania State University**
112 Hammond Building
University Park, PA 16802
17-2-T1.01-9889 MSFC

High Density Hybrid Motors [27]

- **Texas Research Institute Austin, Inc.**
  9063 Bee Caves Road
  Austin, TX 78733
  Michael Dingus (512) 263-2101

  The Curators of the University of Missouri on behalf of Missouri University of Science and Technology
  202 Centennial Hall, 300 W. 12th Street
  Rolla, MO 65409
  17-2-T12.01-9924 LaRC

  Advanced Structural Health Monitoring [28]

- **TRACLabs, Inc.**
  100 North East Loop 410, Suite 520
  San Antonio, TX 78216
  David Kortenkamp (281) 461-7886

  Southwest Research Institute
  6220 Culebra Road
  San Antonio, TX 78238
  17-2-T4.01-9845 ARC

  Towards a Turn-key Software Suite for Controlling Complex Remote Robots using English-language Electronic Procedures [29]

- **X-wave Innovations, Inc.**
  555 Quince Orchard Road, #510
  Gaithersburg, MD 20878
  Jennifer Duan (301) 200-8368

  University Of Maryland Eastern Shore
  Department of Engineering and Aviation Sciences, 2008 Engineering and Aviation Science Complex University of Maryland Eastern Shore
Prince Anne, MD 21853
17-2-T12.01-9839 LaRC