Proposals Selected for Negotiation of Contracts

- **Aerospace Federally Funded Research and Development Center**
  
  2310 E. El Segundo Blvd.
  
  El Segundo, CA

- **Luna Innovations, Inc.**
  
  301 1st Street Southwest, Suite 200
  
  Roanoke, VA 24011
  
  Michael Pruzan (540) 769-8430
  
  17-2-T12.02-9846 KSC

  [Efficient Composite Repair Methods for Launch Vehicles](#) [1]

- **Case Western Reserve University**
  
  10900 Euclid Ave.
  
  Cleveland, OH 44106

- **EleQuant Knowledge Innovation Data Science, LLC**
  
  1801 Swann Street Northwest, #302
  
  Washington, DC 20009
  
  Regina Llopis (415) 978-9800
  
  17-2-T3.02-9967 GRC

  [Holomorphic Embedding for Loadflow Integration of Operational Thermal and Electric Reliable Procedural Systems](#) [2]

- **Dartmouth College**
  
  207 Parkhurst Hall
  
  Hanover, NH

- **Creare, LLC**
  
  16 Great Hollow Road
Hanover, NH 3755  
Robert Kline-Schoder (603) 640-2487  
17-2-T6.02-9840 JSC  

Volume Sensor for Flexible Fluid Reservoirs in Microgravity [3]

- Florida Institute of Technology  
  150 W University Blvd  
  Melbourne, FL 32901  

  Jaycon Systems  
  801 East Hibiscus  
  Melbourne, FL 32901  

  Jiten Chandiramani (321) 505-4560  
  17-2-T11.02-9854 ARC  


- Massachusetts Institute of Technology  
  77 Massachusetts Avenue  
  Cambridge, MA 77058  

  CrossTrac Engineering,Inc.  
  2730 Saint Giles Lane  
  Mountain View, CA 94040  

  John Hanson (408) 898-0376  
  17-2-T11.02-9927 GSFC  

  Optical Intersatellite Communications for CubeSat Swarms [5]

- Mississippi State University  
  Lee Boulevard  
  Mississippi State, MS  

  CFD Research Corporation  
  701 McMillian Way Northwest, Suite D
Huntsville, AL 35806
Silvia Harvey (256) 726-4858
17-2-T1.02-9953 MSFC

*Transonic Acoustic Environment Prediction Tool for Launch Vehicles in Motion During Early Lift-Off* [6]

- **Mississippi State University**
  Lee Boulevard
  Mississippi State, MS

  **CFD Research Corporation**
  701 McMillian Way Northwest, Suite D
  Huntsville, AL 35806
  Silvia Harvey (256) 726-4858
  17-2-T1.02-9954 MSFC

  *Multiphase Modeling of Solid Rocket Motor Internal Environment* [7]

- **Pennsylvania State University**
  112 Hammond Building
  University Park, PA 16802

  **Terves, Inc.**
  24112 Rockwell Drive, Suite C
  Euclid, OH 44117
  Nicholas Farkas (216) 404-0053
  17-2-T1.01-9889 MSFC

  *High Density Hybrid Motors* [8]

- **Pennsylvania State University**
  112 Hammond Building
  University Park, PA 16802

  **Continuum Dynamics, Inc.**
  34 Lexington Avenue
  Ewing, NJ 8618
Barbara Agans (609) 538-0444
17-2-T15.01-9907 ARC

Distributed Electric Propulsion Aircraft Comprehensive Analysis and Design Tool [9]

- **Princeton Plasma Physics Laboratory**
  
  PO Box 451
  
  Princeton, NJ 8543

  **Princeton Satellite Systems**
  
  6 Market Street, Suite 926
  
  Plainsboro, NJ 8536
  
  Michael Paluszek (609) 275-9606
  
  17-2-T2.01-9960 GRC

  Superconducting Coils for Small Nuclear Fusion Rocket Engines [10]

- **Purdue University**
  
  155 S. Grant Street
  
  West Lafayette, IN 47907

  **Physical Sciences, Inc.**
  
  20 New England Business Center
  
  Andover, MA 1810
  
  B. David Green (978) 689-0003
  
  17-2-T3.01-9959 SSC


- **Purdue University-Main Campus**
  
  Hovde Hall of Administration
  
  West Lafayette, IN

  **PC Krause and Associates, Inc.**
  
  3000 Kent Avenue, Suite C1-100
  
  West Lafayette, IN 47906
Teresa Arens (317) 410-1865
17-2-T3.02-9778 GRC

Autonomous Power Controller for Mission Critical Microgrids [12]

- Regents of the University of Colorado
  3100 Marine Street
  Boulder, CO 80303
  
  Space Lab Technologies, LLC
  5455 Spine Road, Suite ME
  Boulder, CO 80301
  
  Christine Escobar (720) 309-8475
  17-2-T7.02-9876 KSC
  
  uG-LilyPond - Floating Plant Pond for Microgravity [13]

- Rensselaer Polytechnic Institute
  110 8th Street
  Troy, NY 12180
  
  American GNC Corporation
  888 Easy Street
  Simi Valley, CA 93065
  
  Emily Melgarejo (805) 582-0582
  17-2-T13.01-9800 SSC
  
  Through Wall Wireless Intelligent Sensor and Health Monitoring (TWall-ISHM) System [14]

- Southwest Research Institute
  6220 Culebra Road
  San Antonio, TX 78238
  
  TRACLabs, Inc.
  100 North East Loop 410, Suite 520
  San Antonio, TX 78216
  
  David Kortenkamp (281) 461-7886
17-2-T4.01-9845 ARC


- Stanford University
  450 Serra Mall
  Stanford, CA

Streamline Numerics, Inc.
3221 North West 13th Street, Suite A
Gainesville, FL 32609
Siddharth Thakur (352) 271-8841
17-2-T1.02-9942 SSC

High Performance Simulation Tool for Multiphysics Propulsion Using Fidelity-Adaptive Combustion Modeling [16]

- Stanford University
  450 Serra Mall
  Stanford, CA

Intelligent Fiber Optic Systems Corporation
2363 Calle Del Mundo
Santa Clara, CA 95054
Behzad Moslehi (408) 565-9004
17-2-T8.02-9931 JSC

Multifunctional Integrated Photonic Lab-on-a-Chip for Astronaut Health Monitoring [17]

- 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

Texas Research Institute Austin, Inc.
9063 Bee Caves Road
Austin, TX 78733
Michael Dingus (512) 263-2101
17-2-T12.01-9924 LaRC
Advanced Structural Health Monitoring [18]

- The Regents of the University of California, Santa Barbara
  3227 Cheadle Hall, 3rd Floor
  Santa Barbara, CA 93106

Luna Innovations, Inc.
301 1st Street Southwest, Suite 200
Roanoke, VA 24011
Lisa Powell (434) 483-4246
17-2-T8.02-9849 GSFC
Heterogeneous Silicon Photonics OFDR Sensing System [19]

- The Regents of the University of Colorado
  3100 Marine Street Room 479
  Boulder, CO 80303

Advanced Space, LLC
2100 Central Avenue, Suite 102
Boulder, CO 80301
Bradley Cheetham (720) 545-9189
17-2-T11.02-9964 GSFC
Efficient cFS-based On-board Lamberts Solution for DSMs [20]

- University of Arizona
  1177 E. 4th Street, Shantz Building
  Tucson, AZ 85721

Exquadrum, Inc.
12130 Rancho Road
Adelanto, CA 92301
• University of California-Santa Barbara
  5221 Cheadle Hall
  Santa Barbara, CA

  Freedom Photonics, LLC
  41 Aero Camino
  Santa Barbara, CA 93117
  Milan Mashanovitch (805) 967-4900
  17-2-T8.02-9810 GSFC
  High Performance 3D Photonic Integration for Space Applications [22]

• University of Delaware
  210 - B Hullihen Hall
  Newark, DE 19716

  Composites Automation, LLC
  9 Adelaide Court
  Newark, DE 19702
  Dirk Heider (302) 831-8898
  17-2-T12.03-9971 LaRC
  Design and Process Development of Thin-Ply Composites [23]

• University of Illinois at Urbana-Champaign
  601 E John Street
  Champaign, IL

  Empirical Systems Aerospace, Inc.
  3580 Sueldo Street
  San Luis Obispo, CA 93401
  Andrew Gibson (805) 704-1865
17-2-T15.01-9848 AFRC

Demonstration of Autonomous Differential Throttle-based Flight Control for Aircraft with Distributed Electric Propulsion [24]

- **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

  **X-wave Innovations, Inc.**
  555 Quince Orchard Road, #510
  Gaithersburg, MD 20878
  Jennifer Duan (301) 200-8368
  17-2-T12.01-9839 LaRC


- **University of Oklahoma-Norman Campus**
  660 Parrington Oval
  Norman, OK

  **Radiometrics Corporation**
  4909 Nautilus Court North, #110
  Boulder, CO 80301
  Dick Rochester (303) 619-0368
  17-2-T1.03-9934 KSC

  Launch Weather Decision Support System [26]

- **University of Pittsburgh-Pittsburgh Campus**
  4200 Fifth Avenue
  Pittsburgh, PA

  **QuesTek Innovations, LLC**
  1820 Ridge Avenue
  Evanston, IL 60201
Voula Colburn (847) 425-8215
17-2-T12.04-9880 LaRC

Integrated Computational Material Engineering Technologies for Additive Manufacturing [27]

University of Puerto Rico
PO Box 21790
San Juan, PR 931

Faraday Technology, Inc.
315 Huls Drive
Englewood, OH 45315
E. Jennings Taylor (937) 836-7749
17-2-T6.01-9949 ARC

Next Generation Water Recovery for a Sustainable Closed Loop Living [28]

University of Virginia
Albert H. Small Building 159 Engineer?s Way. P.O. Box 400257
Charlottesville, VA 22904

Laser & Plasma Technologies, LLC
1100 Exploration Way
Hampton, VA 23666
Nita Gupta (757) 876-8761
17-2-T8.01-9801 LaRC

Development of an Optic Fiber Based Hybrid Spectroscope [29]

University of Washington
Gerberding Hall G80 Box 351202
Seattle, WA 98195

Scientific Systems Company, Inc.
500 West Cummings Park, Suite 3000
Woburn, MA 1801
Lora Loyall (781) 933-5355
17-2-T4.03-9829 JPL

Distributed Intelligent Swarm Control & Utilization System (DISCUS): Further Maturation and Demonstration [30]

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