Proposals Selected for Negotiation of Contracts

- **Colorado State University**
  Sponsored Programs
  Fort Collins, CO 80523

  **Nanosonic, Inc.**
  158 Wheatland Drive
  Pembroke, VA 24136
  Melissa Campbell (540) 626-6266
  14-2-T10.02-9884 JSC

  Multifunctional Shielding and Self-Healing HybridSil Smart Composites for Space [1]

- **Embry-Riddle Aeronautical University**
  600 South Clyde Morris Boulevard
  Daytona Beach, FL 32114

  **Honeybee Robotics, Ltd.**
  Building 3, Suite 1005 63 Flushing Avenue Unit 150
  Brooklyn, NY 11205
  Chris Chapman (626) 459-7809
  14-2-T4.02-9941 KSC


- **Lawrence Berkeley National Laboratory**
  One Cyclotron Road, 971-SP
  Berkeley, CA 94720

  **HJ Science & Technology, Inc.**
  820 Heinz Avenue
Berkeley, CA 94710
Hong Jiao (408) 464-3873
14-2-T6.01-9951 ARC

An End-To-End Microfluidic Platform for Engineering Life Supporting Microbes in Space Exploration Missions [3]

• Massachusetts Institute of Technology
  77 Massachusetts Avenue
  Cambridge, MA 2139

ProtoInnovations, LLC
  5453 Albemarle Avenue
  Pittsburgh, PA 15217
  DIMITRIOS APOSTOLOPOULOS (412) 916-8807
  14-2-T11.01-9869 ARC

Advanced Algorithms and Controls for Superior Robotic All-Terrain Mobility [4]

• Pacific Northwest National Laboratory (PNNL)
  902 Battelle Blvd., 902 Battelle Blvd.
  Richland, WA 99352

Opto-Knowledge Systems, Inc. (OKSI)
  19805 Hamilton Avenue
  Torrance, CA 90502
  Nahum Gat (310) 756-0520
  14-2-T8.01-9935 JPL

Compact Sensor for Isotope and Trace Gas Analysis [5]

• Southwest Research Institute
  6220 Culebra Road
  San Antonio, TX 78238

Elder Research, Inc.
  300 West Main Street, Suite 301
• **Stanford University**
  3160 Porter Drive, Suite 100
  Palo Alto, CA 94304

  **Streamline Numerics, Inc.**
  3221 North West 13th Street, Suite A
  Gainesville, FL 32609

  Siddharth Thakur (352) 271-8841
  14-2-T1.01-9966 MSFC

  *High Fidelity Tool for Turbulent Combustion in Liquid Launch Propulsion Systems Based on Spray-Flamelet Methodology* [7]

• **Texas State University**
  601 University Drive
  San Marcos, TX 78666

  **Omega Optics, Inc.**
  8500 Shoal Creek Boulevard, Building 4, Suite 200
  Austin, TX 78757

  Gloria Chen (512) 996-8833
  14-2-T5.01-9895 GRC

  *Fully Printed Flexible 4-bit 2D (4x4) 16-Element Graphene-Based Phased Array Antenna System* [8]

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

  **Extreme Diagnostics, Inc.**
  6960 Firerock Court
Boulder, CO 80301
Robert Owen (303) 523-8924
14-2-T3.01-9987 SSC

Compact Energy Conversion Module [9]

• The Texas A&M Engineering Experiment Station
  400 Harvey Mitchell Parkway South, Suite 300
  College Station, TX 77845

Tao of Systems Integration, Inc.
1100 Exploration Way
Hampton, VA 23666
Arun Mangalam (757) 220-5040
14-2-T4.01-9909 AFRC

Distributed, Passivity-Based, Aeroservoelastic Control (DPASC) of Structurally Efficient Aircraft in the Presence of Gusts [10]

• University of Alabama
  152 Rose Administration Building
  Tuscaloosa, AL 35487

CFD Research Corporation
701 McMillian Way Northwest, Suite D
Huntsville, AL 35806
Silvia Harvey (256) 726-4858
14-2-T12.04-9977 MSFC


• University of Arizona, College of Optical Sciences
  1630 E. University Blvd.
  Tucson, AZ 85721

TIPD, LLC
1430 North 6th Avenue
Tucson, AZ 85705

James Fountain (520) 250-4405

14-2-T8.01-9947 JPL

Ultrastable and Compact Deep UV Laser Source for Raman Spectroscopy [12]

- University of California, Santa Barbara
  342 Lagoon Road
  Santa Barbara, CA 93106

  Physical Sciences, Inc.
  20 New England Business Center
  Andover, MA 1810
  B. David Green (978) 689-0003
  14-2-T12.02-9894 GRC

  In-Situ EBCs for High Performance Composite Propulsion Components [13]

- University Of Maryland Baltimore County
  1000 Hilltop Circle
  Baltimore, MD 21250

  Brimrose Technology Corporation
  P.O. Box 616, 19 Loveton Circle
  Sparks, MD 21152
  Diane Murray (936) 588-6901
  14-2-T8.01-9937 JPL

  Acousto-Optic Tunable Filter-Based Polarimetric Spectral Sensor With Progressive Algorithm For Material Analysis and Mapping [14]

- University of Massachusetts - Lowell
  600 Suffolk Street Room 226
  Lowell, MA 1854

  Aurora Flight Sciences Corporation
  90 Broadway, 11th Floor
Cambridge, MA 2142
Scott Hart (617) 500-4892
14-2-T10.02-9954 JSC
Automated Manufacture of Damage Detecting, Self-Healing Composite Cryogenic Pressure Vessels [15]

- University of Mississippi
  P.O. Box 1848
  University, MS 38677

ATA Engineering, Inc.
13290 Evening Creek Drive South, Suite 250
San Diego, CA 92128
Joshua Davis (858) 480-2028
14-2-T12.01-9989 LaRC
Improved Models for Prediction of Locally Intense Aeroacoustic Loads and Vibration Environments [16]

- University of Tennessee Knoxville
  1534 White Avenue, Blount Hall
  Knoxville, TN 37996

Applied Optimization, Inc.
714 East Monument Avenue, Suite 204
Dayton, OH 45402
Catherine Keenan (937) 431-5100
14-2-T12.04-9903 MSFC
Physics and Statistics Based Selection of SLM and EBM Process Parameters to Mitigate Defects and to Control Deposit Microstructure [17]

- University of Tennessee Space Institute
  411 BH Goethert Pkwy
  Tullahoma, TN 37388

Gloyer-Taylor Laboratories, LLC
112 Mitchell Boulevard
Tullahoma, TN 37388
Paul Gloyer (931) 455-7333
14-2-T1.02-9996 MSFC
ACE Booster [18]

- University of Texas at Dallas
  800 West Campbell Road
  Richardson, TX 75080

  Lynntech, Inc.
  2501 Earl Rudder Freeway South
  College Station, TX 77845
  Darla Hisaw (979) 764-2200
  14-2-T3.01-9927 SSC
  Heat Harvesting by Artificial Muscles [19]

- Virginia Polytechnic Institute
  300 Turner Street Northwest
  Blacksburg, VA 24061

  M4 Engineering, Inc.
  4020 Long Beach Boulevard
  Long Beach, CA 90807
  Myles Baker (562) 305-3391
  14-2-T4.01-9879 AFRC
  Dynamic ASE Modeling and Optimization of Aircraft with SpaRibs [20]

- Wright State University
  3640 Colonel Glenn Highway
  Dayton, OH 45435

  Mound Laser & Photonics Center, Inc.
  2941 College Drive
  Kettering, OH 45420
Kevin Hartke (937) 865-3730
14-2-T12.04-9972 MSFC

In-Process Monitoring of Additive Manufacturing [21]