Proposals Selected for Negotiation of Contracts

- **Advratech, LLC**
  
  714 East Monument Avenue
  
  Dayton, OH 45402
  
  David Burton (937) 241-9403

  **Wright State University**
  
  3640 Colonel Glenn Highway
  
  Dayton, OH 45435
  
  16-1-T12.04-9743 MSFC

  [Empirical Optimization of Additive Manufacturing](#) [1]

- **Angstrom Designs, Inc.**
  
  P.O. Box 2032
  
  Santa Barbara, CA 93120
  
  Timothy Halsey (805) 284-4535

  **University of California at Santa Barbara**
  
  Office of Research, Cheadle Hall 3227
  
  Santa Barbara, CA 93106
  
  16-1-T13.01-9746 SSC

  [Modular Embedded Intelligent Sensor Network](#) [2]

- **Applied Material Systems Engineering, Inc. (AMSENG)**
  
  2309 Pennsbury Court
  
  Schaumburg, IL 60194
  
  Mukund Deshpande (630) 372-9650

  **The Board of Trustees of the University of Illinois**
Champaign, IL 61820
16-1-T3.02-9793 MSFC

**Innovative High Energy Density Storage in Nano Vacuum Tubes (NVTs) Designed for Small Leakage Curren** [3]

- **Applied Research, LLC**
  9605 Medical Center Drive, Suite 113E
  Rockville, MD 20850
  Chiman Kwan (240) 505-2641

**University of Tennessee**
Min H. Kao Building, Suite 304; 1520 Middle Drive
Knoxville, TN 37996
16-1-T8.01-9787 JPL


- **ASTER Labs, Inc.**
  155 East Owasso Lane
  Shoreview, MN 55126
  Suneel Sheikh (651) 484-2084

**The Regents of the University of Minnesota**
Minneapolis, MN 55455
16-1-T4.03-9796 JPL

**Satellite Swarm Localization and Control via Random Finite Set Statistics** [5]

- **Aurora Flight Sciences Corporation**
  90 Broadway, 11th Floor
  Cambridge, MA 2142
  Scott Hart (617) 500-4892

**Massachusetts Institute of Technology**
77 Massachusetts Avenue
Cambridge, MA 2139
16-1-T4.03-9758 JPL

Spacecraft Swarm Coordination and Planning Tool [6]

- **Aviana Molecular Technologies, LLC**
  831 Amies Lane
  Bryn Mawr, PA 19010
  Vanaja Ragavan (610) 220-0965

  University of Central Florida
  4000 Central Florida Boulevard
  Orlando, FL 32816
  16-1-T12.01-9836 LaRC


- **Balcones Technologies, LLC**
  10532 Grand Oak Circle
  Austin, TX 78750
  Joseph Beno (512) 924-2241

  University of Texas Center for Electromechanics
  Austin, TX 78758
  16-1-T15.01-9808 GRC

  Mega-Watt Class High Voltage, Variable Frequency, Propulsor Power Unit [8]

- **Boulder Nonlinear Systems, Inc.**
  450 Courtney Way, Unit 107
  Lafayette, CO 80026
  Mark Tanner (303) 604-0077

  University of Dayton, Research Institute
  300 College Park
  Dayton, OH 45469
  16-1-T9.01-9816 LaRC

  Non-Mechanical Beam Steering for Entry, Descent and Landing Sensors [9]
• Busek Company, Inc.
  11 Tech Circle
  Natick, MA 1760
  Judy Budny (508) 655-5565

Arizona State University
PO Box 876004
Tempe, AZ 85287
16-1-T4.02-9752 KSC

AstroCube: An Asteroid Prospecting CubeSat Mission [10]

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

Mississippi State University
Mississippi State, MS 39762
16-1-T1.02-9828 MSFC

Unified In-Space Propulsion Framework for Prediction of Plume-Induced Spacecraft Environments [11]

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

Mississippi State University
Mississippi State, MS 39762
16-1-T1.02-9827 MSFC

Prediction of Structural Response and Fluid-Induced Vibration in Turbomachinery [12]

• Cornerstone Research Group, Inc.
  2750 Indian Ripple Road
Dayton, OH 45440
Chrysa Theodore (937) 320-1877

University of Dayton
300 College Park
Dayton, OH 45469
16-1-T12.02-9788 KSC
NONA Repair of Composite Structures [13]

• Emergent Space Technologies, Inc.
6411 Ivy Lane, Suite 303
Greenbelt, MD 20770
Everett Cary (301) 345-1535

University of Florida
Gainesville, FL 32611
16-1-T11.02-9713 GSFC
An Intelligent Autonomous Executive for cFS Distributed Spacecraft Missions [14]

• Enterprise Advisory Services, Inc.
6671 Southwest Freeway, Suite 800
Houston, TX 77074
Tony Johnson (440) 554-4036

Virginia Tech
North End Center, Suite 4200, Virginia Tech
Blacksburg, VA 24061
16-1-T4.02-9726 KSC
Comprehensive Modeling for Off-Earth Mining Optimization and Resource Processing [15]

• Fibertek, Inc.
13605 Dulles Technology Drive
Herndon, VA 20171
Tracy Perinis (703) 471-7671

**Pennsylvania State University**
State College, PA 16803
16-1-T9.01-9825 LaRC

*Ultra-Compact Transmitter for Space-Based Lidar* [16]

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

*University of California, Santa Barbara*
Electrical & Computer Engineering
Santa Barbara, CA 93106
16-1-T8.02-9720 GSFC

*Integrated Optical Transmitter for Space Based Applications* [17]

- **Freight Farms, Inc.**
  840 Summer Street, Suite 108
  Boston, MA 2127
  Viktoria Shulevich (877) 687-4326

*Clemson University*
300 Brackett Hall, Box 345702
Clemson, SC 29634
16-1-T6.04-9800 ARC

*Self-Sustaining Crop Production Unit* [18]

- **Garvey Spacecraft Corporation**
  389 Haines Avenue
  Long Beach, CA 90814
  John Garvey (562) 498-2984
The University of Alabama in Huntsville PRC / OSP
301 Sparkman Drive, VBRH E-29
Huntsville, AL 35899
16-1-T1.01-9835 MSFC

Torch-Augmented Spark Igniter for Nanosat Launch Vehicle LOX/Propylene Rocket Engine [19]

- Gloyer-Taylor Laboratories, LLC
  112 Mitchell Boulevard
  Tullahoma, TN 37388
  Paul Gloyer (931) 455-7333

Southern Research Institute
2000 Ninth Avenue South
Birmingham, AL 85205
16-1-T12.01-9846 LaRC

Structural Nervous System [20]

- Gloyer-Taylor Laboratories, LLC
  112 Mitchell Boulevard
  Tullahoma, TN 37388
  Paul Gloyer (931) 455-7333

University of Tennessee
University of Tennessee
Knoxville, TN 37996
16-1-T3.01-9843 SSC

Active Radiation Shield [21]

- HJ Science & Technology, Inc.
  820 Heinz Avenue
  Berkeley, CA 94710
  Hong Jiao (408) 464-3873

Georgia Institute of Technology
Atlanta, GA 30332

16-1-T8.03-9761 ARC

**Penetrator-Compatible Microfluidic Analyzer For Lipids, Amino Acid Chirality, and pH** [22]

- **Honeybee Robotics, Ltd.**
  
  Building 3, Suite 1005 63 Flushing Avenue Unit 150
  
  Brooklyn, NY 11205
  
  Kris Zacny (510) 207-4555

  **Michigan Technological University**
  
  1400 Townsend Drive
  
  Houghton, MI 49931
  
  16-1-T4.02-9747 KSC

  **Robotic ISRU Construction of Planetary Landing and Launch Pad** [23]

- **Honeybee Robotics, Ltd.**
  
  Building 3, Suite 1005 63 Flushing Avenue Unit 150
  
  Brooklyn, NY 11205
  
  Kris Zacny (510) 207-4555

  **SETI Institute Carl Sagan Center**
  
  Montain View, CA 94043
  
  16-1-T8.03-9689 ARC

  **In-Situ Spectroscopic Europa Explorer (ISEE)** [24]

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

  **Stanford Mechnical Engineering**
  
  Building 50, 416 Escondido Mall
  
  Stanford, CA 94305
  
  16-1-T4.02-9786 KSC
Robotic Tool for Asteroid Resource Prospecting and Characterization [25]

- **IOP Technologies, LLC**
  
  218 Ring Road, Suite A
  
  Louisville, KY 40207
  
  William Paxton (270) 331-1116

  **Vanderbilt University**
  
  PMB 407749, 2301 Vanderbilt Place
  
  Nashville, TN 37240
  
  16-1-T6.03-9725 JSC

  Development of an Advanced Diamond TEC Cathode [26]

- **Keystone Synergistic Enterprises, Inc.**
  
  664 Northwest Enterprise Drive, Suite 118
  
  Port Saint Lucie, FL 34953
  
  Bryant Walker (772) 343-7544

  **University of Alabama at Huntsville**
  
  301 Sparkman Drive
  
  Huntsville, AL 35899
  
  16-1-T12.04-9804 MSFC

  Bi-Metallic Additive Manufacturing Close-Out of Coolant Channels for Large Liquid Rocket Engine (LRE) Nozzles [27]

- **Linked Inc**
  
  3914 Deervale Drive
  
  Sherman Oaks, CA 91403
  
  Anne Lynch (805) 330-1650

  **University of California, Los Angeles,**
  
  Los Angeles, CA 90095
  
  16-1-T4.01-9721 AFRC

  Sensitivity Analysis for Design Optimization Integrated Software Tools [28]
• **Luna Innovations, Inc.**
  301 1st Street Southwest, Suite 200
  Roanoke, VA 24016
  Shirley Evans (540) 961-6724

  **North Carolina State University**
  NCSU Office of Sponsored Programs
  Raleigh, NC 27695
  16-1-T6.01-9730 JSC
  [Environmentally Protective Fabrics for Spacesuits](#) [29]

• **Mango Materials**
  490 Lake Park Avenue
  Oakland, CA 94610
  Molly Morse (650) 427-0430

• **Colorado School of Mines**
  1012 14th Street
  Golden, CO 80401
  16-1-T6.04-9723 ARC
  [A Novel, Membrane-Based Bioreactor Design to Enable a Closed-Loop System on Earth and Beyond](#) [30]

• **Materials Research and Design, Inc.**
  300 East Swedesford Road
  Wayne, PA 19087
  Brian Sullivan (610) 964-9000

• **Villanova University**
  Villanova, PA 19085
  16-1-T12.01-9724 LaRC
  [Fiber Optic Health Monitoring of 3D Woven Preforms and Composites Employing Structurally Integrated Sensors](#) [31]
• Morningbird Media Corporation
  259 Cheswick Drive
  Madison, AL 35757
  Chance Glenn (585) 899-0457

  Alabama A&M RISE Foundation
  4900 Meridian Street
  Normal, AL 35762
  16-1-T12.04-9850 MSFC

  An Additive Manufacturing Technique for the Production of Electronic Circuits [32]

• Nanohmics, Inc.
  6201 East Oltorf Street, Suite 400
  Austin, TX 78741
  Michael Mayo (512) 389-9990

  Catholic University of America
  Washington, DC 20064
  16-1-T8.02-9741 GSFC

  Photonic IC Spectrometer for Spacecraft [33]

• Nanohmics, Inc.
  6201 East Oltorf Street, Suite 400
  Austin, TX 78741
  Michael Mayo (512) 389-9990

  University of Maryland
  Department of Astronomy
  College Park, MD 20742
  16-1-T8.01-9779 LaRC

  A Cubesat Hyperspectral Imager [34]

• Nanosonic, Inc.
  158 Wheatland Drive
Pembroke, VA 24136
Melissa Campbell (540) 626-3645

**Virginia Tech**
1333 Randolph Hall
Blacksburg, VA 24061
16-1-T12.02-9810 KSC

*Innovative Hybridsil Poly(Siloxane Imide) Composite Repair Materials and Methods* [35]

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

  **Virginia Tech**
  302 Whittemore
  Blacksburg, VA 24061
  16-1-T12.03-9821 LaRC

  *Integrated Sensors for the Evaluation of Structural Integrity of Inflatable Habitats* [36]

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

  **Virginia Tech-Mechanical Engineering Department**
  635 Prices Fork Road-MC 0238
  Blacksburg, VA 24061
  16-1-T13.01-9820 SSC

  *Wireless Networked Sensors for Remote Monitoring in Propulsion Systems* [37]

- **NextGen Federal Systems, LLC**
  235 High Street, Suite 220
Morgantown, WV 26505
David Bissett (703) 568-7015

**The University of Alabama in Huntsville**
301 Sparkman Drive
Huntsville, AL 35899
16-1-T6.02-9753 GSFC

*Space Radiation Intelligence System (SPRINTS)* [38]

- **Otherlab, Inc.**
  3101 20th Street
  San Francisco, CA 94110
  James McBride (415) 970-2209

*Faboratory at Purdue University*
585 Purdue Mall, ME 2147
West Lafayette, IN 47907
16-1-T11.01-9734 ARC

*Soft Robotic Manipulators with Enhanced Perception using Multimodal Sensory Skins* [39]

- **Paragon Space Development Corporation**
  3481 East Michigan Street
  Tucson, AZ 85714
  Carole Leon (520) 382-4814

*Texas Tech University*
911 Boston, Box 41023
Lubbock, TX 79409
16-1-T6.03-9824 JSC

*Development of the Integrated Water Recovery Assembly (IRA) for Recycling Habitation Wastewater Stre* [40]

- **Partow Technologies, LLC**
  4304 Scorpius Street
University of Central Florida
4000 Central Florida Boulevard
Orlando, FL 32816
16-1-T8.02-9806 GRC

Thin Film Lithium Niobate Microring Modulators for Analog Photonics [41]

PC Krause and Associates, Inc.
3000 Kent Avenue, Suite C1-100
West Lafayette, IN 47906
Davida Parks (765) 464-8997

Purdue University
155 South Grant Street
West Lafayette, IN 47907
16-1-T15.01-9692 GRC

Hybrid Modeling Capability for Aircraft Electrical Propulsion Systems [42]

Physical Sciences, Inc.
20 New England Business Center
Andover, MA 1810
David Green (978) 738-8146

Purdue University
155 S. Grant Street
West Lafayette, IN 47908
16-1-T1.01-9785 AFRC

Low-Cost, Scalable, Hybrid Launch Propulsion Technology [43]

Protoinnovations, LLC
5453 Albemarle Avenue
Pittsburgh, PA 15217
Dimitrios Apostolopoulos (412) 916-8807

**Carnegie Mellon University**

5000 Forbes Avenue

Pittsburgh, PA 15213

16-1-T11.01-9699 ARC

*Increasing the Performance of Autonomous Planetary Robots Through Environmental Manipulations* [44]

**Radiation Monitoring Devices, Inc.**

44 Hunt Street

Watertown, MA 2472

Jennifer Carey (617) 668-6811

**COSMIAC at The University of New Mexico**

Alburguerque, NM 87131

16-1-T6.02-9776 GSFC

*The Small Mixed Field Autonomous Radiation Tracker (SMART) Dosimeter* [45]

**SCCAQ Energy, LLC**

432 Heritage Hills Drive

Richland, WA 99352

Songgang Qiu (509) 308-2702

**Temple University**

1947 North 12th Street

Philadelphia, PA 19122

16-1-T3.01-9698 GRC

*Advanced Stirling Regenerator and Heat Exchanger Assembly for Radioisotope Stirling Space Power* [46]

**SCCAQ Energy, LLC**

432 Heritage Hills Drive

Richland, WA 99352

Songgang Qiu (509) 308-2702
Temple University
1947 North 12th Street
Philadelphia, PA 19122
16-1-T3.01-9697 GRC

Innovative Stirling Convertor for Distributed Electric Power from Thermal Energy Recovery [47]

SCCAQ Energy, LLC
432 Heritage Hills Drive
Richland, WA 99352
Songgang Qiu (509) 308-2702

Temple University
1947 North 12th Street
Philadelphia, PA 19122
16-1-T3.01-9696 GRC

400 W Stirling Convertor for kW-Class Space Power System [48]

Seacoast Science, Inc.
2151 Las Palmas Drive, Suite C
Carlsbad, CA 92011
Louis Haerle (760) 268-0083

Case Western Reserve University
School of Engineering
Cleveland, OH 44106
16-1-T6.01-9778 JSC

Low Mass/Power Sensor Suite for Spacesuits [49]

STF Technologies, LLC
58 Darien Road
Newark, DE 19711
Richard Dombrowski (716) 799-5935

University of Delaware
210 Hullihen Hall
Newark, DE 19716
16-1-T6.01-9742 JSC

Shear Thickening Fluid Enhanced Textiles for Durable, Puncture- and Cut-Resistant Environmental Protection Garments [50]

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

  Wake Forest University
  P.O. Box 7201
  Winston-Salem, NC 27109
  16-1-T6.03-9722 JSC

  Sustainable Water Purification [51]

- TDA Research, Inc.
  12345 West 52nd Avenue
  Wheat Ridge, CO 80033
  John Wright (303) 940-2300

  University of Puerto Rico - Mayaguez
  Call Box 9000
  Mayaguez, PR 681
  16-1-T6.04-9773 ARC

  Highly Efficient Closed-Loop CO2 Removal System for Deep-Space ECLSS [52]

- Tetra Research Corporation
  420 Park Avenue West
  Princeton, IL 61356
  Rex Chamberlain (815) 872-0702

  Mississippi State University
P.O. Box 6156
Mississippi State, MS 39762
16-1-T1.02-9703 SSC

Efficient High Fidelity Computational Tool for Acoustically Driven Multiphysics Propulsion Modeling [53]

- **TGV Rockets, Inc.**
  2519 Benning Road Northeast
  Washington, DC 20002
  Chuck Burch (571) 426-3290

  University of Tennessee
  1331 Circle Park Drive
  Knoxville, TN 37916
  16-1-T1.01-9784 MSFC

  Low Cost Upper Stage for Affordable Nano/Micro Launch [54]

- **Third Floor Materials**
  3110 Edwards Mill Road Suite 300
  Raleigh, NC 27612
  Christopher Shelton (503) 740-7565

  North Carolina State University
  2701 Sullivan Drive
  Raleigh, MT 27695
  16-1-T8.01-9717 LaRC

  Uncooled Multispectral Photoemissive Infrared Detector [55]

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

  Carnegie Mellon University - Silicon Valley
  NASA Research Park, Bldg 23
Moffett Field, CA 94305
16-1-T11.01-9740 ARC

Visualizing and Comparing Exploration Plan Alternatives and Change Effects (xPACE) [56]

- Tyvak Nano-Satellite System Inc
  15265 Alton Parkway, Suite 200
  Irvine, CA 92618
  Austin Williams (480) 227-1113

  University of California, Los Angeles
  11000 Kinross Avenue, Suite 200
  Los Angeles, CA 90095
  16-1-T5.01-9716 GRC

  Deployable Ka-Band Reflectarray [57]

- Voxel, Inc.
  15985 Northwest Schendel Avenue, Suite 200
  Beaverton, OR 97006
  Debra Ozuna (971) 223-5646

  University of Dayton
  300 College Park
  Dayton, OH 45469
  16-1-T9.01-9710 LaRC

  High-Gain, Low-Excess-Noise APD Arrays for Near-Single-Photon-Sensitive LADAR [58]

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