Proposals Selected for Negotiation of Contracts

- **Alphacore, Inc.**
  398 South Mill Avenue, Suite 304
  Tempe, AZ 85281
  Kimberlee Olson (480) 494-5618

  **Vanderbilt University**
  2101 West End Avenue
  Nashville, TN
  19-1-T6.05-4023 LaRC


- **Alphacore, Inc.**
  398 South Mill Avenue, Suite 304
  Tempe, AZ 85281
  Kimberlee Olson (480) 494-5618

  **Arizona State University-Tempe**
  University Drive and Mill Avenue
  Tempe, AZ
  19-1-T13.01-4035 SSC


- **AnalySwift**
  5413 Crus Corvi Road
  West Jordan, UT 84081
  Allan Wood (801) 599-5879

  **Purdue University-Main Campus**
155 South Grant Street  
West Lafayette, IN 47907  
19-1-T12.01-3920 LaRC

Efficient High-Fidelity Modeling of High Strain Thin-Ply Composites [3]

• Applied NanoFemto Technologies, LLC
  181 Stedmen Street, Unit #2  
  Lowell, MA 01851  
  Jing Chen (978) 761-4293

Massachusetts Institute of Technology
  77 Massachusetts Avenue  
  Cambridge, MA 77058  
  19-1-T8.02-3207 JSC


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

The Regents of the University of Minnesota
  200 Oak Street S.E.  
  Minneapolis, MN 55455  
  19-1-T4.03-3451 JPL

Provably Convergent Game-Theoretic Coordination for Space Vehicle Swarms [5]

• Cactus Materials
  7700 S River Parkway  
  Chandler, AZ 85284  
  Mohammed Rafiquil Islam (480) 213-4704

Arizona State University
CertainTech, Inc.
20695 Settlers Point Place
Sterling, VA 20165
Ponniah Srinivasan (703) 584-5721

George Washington University
2121 I Street, NW
Washington, DC
19-1-T6.06-3792 ARC

Nanoporous Carbon Nitride Photocatalyst Based Water Recovery System [7]

Chemtronergy, LLC
3619 West 1987 South
Salt Lake City, UT 84104
Gege Tao (801) 981-9997

University of Utah
201 Presidents Circle, ROOM 201
Salt Lake City, UT
19-1-T15.03-4336 GRC

Solid State Li-S Battery Based on Novel Polymer/Mineral Composite [8]

Continuum Dynamics, Inc.
34 Lexington Avenue
Ewing, NJ 08618
Barbara Agans (609) 538-0444

Pennsylvania State University-Main Campus
201 Old Main
University Park, PA
19-1-T15.01-3500 AFRC

DEP Aircraft Terminal Area Ride Quality/Safety of Operations Assessment Tool [9]

- Continuum Dynamics, Inc.
  34 Lexington Avenue
  Ewing, NJ 08618
  Barbara Agans (609) 538-0444

Georgia Institute of Technology-Main Campus
225 North Ave
Atlanta, GA
19-1-T15.01-2847 ARC

Next Generation Distributed Electric Propulsion Urban Air Mobility Aircraft Analysis/Design Tools [10]

- Cornerstone Research Group, Inc.
  510 Earl Boulevard
  Miamisburg, OH 45342
  Chrysa Theodore (937) 320-1877

University of Maryland
3112 Lee Building, 7809 Regents Drive
College Park, MD 20742
19-1-T15.03-3203 GRC

Hybrid Anode for Electrified Aircraft Propulsion [11]

- Cornerstone Research Group, Inc.
  510 Earl Boulevard
  Miamisburg, OH 45342
  Chrysa Theodore (937) 320-1877

The University of Texas at Austin
110 Inner Campus Drive
Austin, TX
19-1-T12.05-3201 JSC

In-Situ Application of Multi-Layer Thermal Protection System [12]

• CU Aerospace, LLC
  3001 Newmark Drive
  Champaign, IL 61822
  David Carroll (217) 239-1703

University of Michigan
  3003 South State Street
  Ann Arbor, MI 48109
  19-1-T2.02-2527 GRC

Advanced Flow Control System for In-Space Electric Propulsion [13]

• Electro Magnetic Applications
  7655 West Mississippi Avenue, Suite 300
  Lakewood, CO 80226
  Matthew Miller (217) 840-1382

Wichita State University
  1845 N. Fairmount
  Wichita, KS
  19-1-T5.02-3243 KSC

Power Balance Solver Enhanced by an Experimental Absorption Cross-Section Database [14]

• Emergent Space Technologies, LLC
  7901 Sandy Spring Road, Suite 511
  Laurel, MD 20707
  Everett Cary (301) 345-1535

The University of Texas at San Antonio
  One UTSA Circle
  San Antonio, TX
19-1-T11.03-3448 MSFC

**ROBOT: Rules Oriented Blockchain Operations Transactor** [15]

- **En’Urga, Inc.**
  
  1201 Cumberland Avenue, Suite R
  
  West Lafayette, IN 47906
  
  Deepa Divakaran (765) 497-3269

**University of Michigan**

3003 South State Street

Ann Arbor, MI 48109

19-1-T2.03-3834 AFRC

**Planar Chemiluminescence Absorption Tomography** [16]

- **Espace, Inc.**
  
  30 Lynn Avenue
  
  Hull, MA 02045
  
  Francois Martel (781) 925-3893

**Massachusetts Institute of Technology**

77 Massachusetts Avenue

Cambridge, MA 02139

19-1-T2.03-2775 MSFC

**Bimodal Ion-Chemical Thruster System** [17]

- **H2O Insights, LLC**
  
  12794 E Sahuaro Drive
  
  Scottsdale, AZ 85259
  
  Kelly Westerhoff (480) 209-9140

**Arizona State University-Tempe**

551 E. Tyler Mall St ERC RM 159

Tempe, AZ 85281
19-1-T6.06-2448 JSC

Side-Emitting Optical Fibers for Delivery of UV-C Light to Disinfect Key Bacteria in Space Station Water and Storage and Conveyance Systems [18]

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

Northwestern University
  633 Clark St.
  Evanston, IL 60208
  19-1-T13.01-2665 SSC
  Enhanced Real Time Distributed Strain and Temperature Monitoring for Rocket Ground Testing [19]

• Intelligent Optical Systems, Inc.
  2520 West 237th Street
  Torrance, CA 90505
  Reuben Sandler (424) 263-6305

University of Southern California
  3720 S. Flower Street, 3rd Floor
  Los Angeles, CA 90089
  19-1-T12.05-3033 ARC
  A Modular In-Situ Curing Apparatus for Thermoset Resin Mixtures Applied as Thermal Protection Systems [20]

• Lynntech, Inc.
  2501 Earl Rudder Freeway South
  College Station, TX 77845
  Darla Hisaw (979) 764-2219

Texas A&M Engineering Experiment Station
  7607 Eastmark Drive
  College Station, TX 77840
19-1-T8.02-2760 GRC

Integrated Multi-Mode Photonic Crystal Spectrometer with On-Chip Photodetection [21]

- **Martin Defense Group, LLC**
  841 Bishop Street, Suite 1110
  Honolulu, HI 96813
  Todd Peltzer (808) 551-4713

  **University of Maine**
  168 College Avenue
  Orono, ME
  19-1-T12.01-3729 LaRC

  Thin-Ply Inflatable Composites with Drop Stitch Reinforcement [22]

- **Mirios, Inc.**
  429 West Valerio Street, #25
  Santa Barbara, CA 93101
  Alexander Spott (805) 364-2987

  **The Regents of the University of California, Santa Barbara**
  3227 Cheadle Hall, 3rd Floor
  Santa Barbara, CA 93106
  19-1-T8.02-3360 GSFC

  Multispectral Mid-Infrared Laser [23]

- **Multi3D, LLC**
  434 Golden Harvest Loop
  Cary, NC 27519
  Allen Gray (919) 667-7499

  **Duke University**
  103 Allen Bldg
  Durham, NC
19-1-T8.04-3301 GSFC

Rapid Prototyping of Beam-Shaping Metamaterial Antennas via Additive Manufacturing of a Highly Conductive Filament [24]

- **Mycroft AI, Inc.**
  300 East 39th Street
  Kansas City, MO 64111
  Eric Jurgeson (913) 406-4011

  **Texas A&M Engineering Experiment Station**
  7607 Eastmark Drive
  College Station, TX 77840
  19-1-T11.04-4219 LaRC

  Development of A Digital Assistant for Early Mission Analysis and Design [25]

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

  **Research Foundation of the City University of New York-Advanced Science Research Center**
  85 Saint Nicholas Terrace
  New York, NY 10031
  19-1-T8.04-3418 GSFC

  Metagrating Beam Shaping Optics [26]

- **Nanomatronix, LLC**
  700 Research Center Boulevard
  Fayetteville, AR 72701
  Matthew Leftwich (479) 215-9438

  **University of Arkansas at Little Rock**
  2801 S University Ave
  Little Rock, AR
19-1-T6.06-4074 JSC

Thermally Partially Reduced Graphene Oxide Membranes for Water Recovery from Wastewater [27]

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

  **Virginia Tech**
  245 Goodwin Hall
  Blacksburg, VA 24061
  19-1-T12.05-3378 JSC

  Cure in Place Hybridsil Polyimide Materials for Next Generation Additively Manufactured TPS Heat Shields [28]

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

  **Virginia Tech**
  Virginia Tech MC 0238
  Blacksburg, VA 24061
  19-1-T6.06-3677 JSC


- **New Rights Group, Inc. DBA Development Seed**
  1226 9th Street Northwest, Second Floor
  Washington, DC 20001
  Mark Wronkiewicz (573) 578-1453

  **Arizona State University**
  650 E Tyler Mall Goldwater Center # 208
  Tempe, AZ 85281
19-1-T4.01-2855 ARC

Planetary-Scale Surface Feature Detection and Mapping for Future Exploration Missions [30]

- **Opterus Research and Development, Inc.**
  4221 Rolling Gate Road
  Fort Collins, CO 80526
  Thomas Murphey (505) 250-3006

  **North Carolina State University at Raleigh**
  2701 Sullivan Drive
  Raleigh, NC 27695
  19-1-T12.01-2915 GRC

  Braded Thin-Ply Tapes [31]

- **Orbit Logic, Inc.**
  7852 Walker Drive
  Greenbelt, MD 20770
  Ella Herz (301) 982-6234

  **Regents of the University of Colorado**
  3100 Marine Street
  Boulder, CO 80303
  19-1-T4.03-3131 JPL

  Mars/Interplanetary Swarm Design and Evaluation Framework (MISDEF) [32]

- **Plasma Controls, LLC**
  1180 La Eda Lane
  Fort Collins, CO 80526
  Casey Farnell (970) 581-2239

  **COLORADO STATE UNIVERSITY**
  Sponsored Programs; 601 S. Howes St.
  Fort Collins, CO 80523
  19-1-T2.02-2644 GRC
Energy and Velocity Analyzer for Distributions of Electric Rockets [33]

- **Plasma Processes, LLC**
  4914 Moores Mill Road
  Huntsville, AL 35811
  Timothy McKechnie (256) 851-7653

  **Georgia Institute of Technology-Main Campus**
  225 North Ave
  Atlanta, GA
  19-1-T2.03-3789 MSFC

  Dual Mode Green Monopropellant Propulsion System for Interplanetary Missions [34]

- **QorTek, Inc.**
  1965 Lycoming Creek Road, Suite 205
  Williamsport, PA 17701
  Cathy Bower (570) 322-2700

  **COLORADO STATE UNIVERSITY**
  Sponsored Programs; 601 S. Howes St.
  Fort Collins, CO 80523
  19-1-T2.02-3763 GRC

  Propellant Storage and Distribution System Based on Textured Ceramic Valves for Xenon Electric Propulsion Systems [35]

- **Renan Moreira**
  4453 La Paloma Avenue
  Santa Barbara, CA 93105
  Renan Moreira (805) 319-2491

  **The Regents of the University of California, Santa Barbara**
  3227 Cheadle Hall, 3rd Floor
  Santa Barbara, CA 93106
  19-1-T8.02-4150 GSFC
Broadband Arrayed Waveguide Grating with Microwave Kinetic Detector Array for Fully Integrated High-Resolution Photonic Spectrograph [36]

- **Research in Flight**
  1919 North Ashe Court
  Auburn, AL 36830
  Roy Hartfield (334) 444-8523

  **Auburn University**
  141 Engineering Drive
  Auburn, AL 36849
  19-1-T15.01-2965 ARC

  Air Vehicle Gust Response analysis for Conceptual Design [37]

- **Rochester Precision Optics**
  850 John Street
  West Henrietta, NY 14586
  Stephanie McCaig (585) 292-5450

  **Massachusetts Institute of Technology**
  77 Massachusetts Avenue
  Cambridge, MA 77058
  19-1-T8.04-3019 JPL

  Hierarchical Metasurface Optics for Multiplexed Visible to Terahertz Cross-Band Systems [38]

- **SoneLite, Inc.**
  2311 Via Aprilia
  Del Mar, CA 92014
  Paul Bremner (619) 977-4048

  **Oklahoma State University-Main Campus**
  107 Whitehurst
  Stillwater, OK
  19-1-T5.02-3311 KSC
Electric Field Prediction and Mapping Methods Within Spacecraft Enclosures [39]

- **Spectral Energies, LLC**
  
  4065 Executive Drive
  
  Dayton, OH 45430
  
  Sivaram Gogineni (937) 266-9570

- **Purdue University-Main Campus**
  
  155 South Grant Street
  
  West Lafayette, IN 47907
  
  19-1-T2.03-4300 GRC

  Concurrent High-Fidelity Measurements and Simulations for Advancing the Design of Rotating Detonation Engines [40]

- **Streamline Automation, LLC**
  
  3100 Fresh Way Southwest
  
  Huntsville, AL 35805
  
  Alton Reich (256) 713-1220

- **University of Tennessee Space Institute**
  
  411 B.H. Goethert Pkwy
  
  Tullahoma, TN 37388
  
  19-1-T2.03-2452 MSFC

  Demonstration of Dual Mode Ionic Liquid Propulsion [41]

- **Streamline Automation, LLC**
  
  3100 Fresh Way Southwest
  
  Huntsville, AL 35805
  
  Alton Reich (256) 713-1220

- **Alabama A&M University**
  
  Normal, Alabama 35762
  
  Normal, AL 35762
  
  19-1-T6.05-3299 LaRC
**Testing of COTS Systems in Space** [42]

- **SurfPlasma**
  8722 Northwest 9th Place
  Gainesville, FL 32606
  Subrata Roy (810) 516-0991
  
  **University of Florida**
  201 Criser Hall PO Box 114000
  Gainesville, FL
  19-1-T15.01-3721 GRC

- **Vortex Control for Low-Noise DEP Urban Aircraft** [43]

- **Tethers Unlimited, Inc.**
  11711 North Creek Parkway South, Suite D113
  Bothell, WA 98011
  Robert Hoyt (425) 486-0100
  
  **Western Washington University**
  516 High Street
  Bellingham, WA
  19-1-T12.05-4015 JSC


- **Tietronix Software, Inc.**
  1331 Gemini Avenue, Suite 300
  Houston, TX 77058
  Frank Hughes (281) 461-9300
  
  **University of Houston-Clear Lake**
  2700 Bay Area Blvd
  Houston, TX
  19-1-T11.03-2769 MSFC
Blockchain for Model Based System Engineering [45]

- **Touchstone Research Laboratory, Ltd.**
  The Millennium Centre, 1142 Middle Creek Road
  Triadelphia, WV 26059
  Brian Gordon (304) 547-5800

  **Clemson University**
  201 Sikes Hall
  Clemson, SC
  19-1-T12.01-4092 LaRC
  Precision Heated Tooling for OOA Curing of Thin-Ply Composites [46]

- **Tyvak Nano-Satellite System, Inc.**
  15330 Barranca Parkway
  Irvine, CA 92618
  Todd Mosher (949) 562-8684

  **Stanford University**
  3160 Porter Drive Suite 100
  Palo Alto, CA 94304
  19-1-T4.03-4413 JPL
  Distributed Multi-GNSS Timing and Localization (DiQiTal) 2.0 for Nanosatellites [47]

- **Veth Research Associates, LLC**
  4591 Highway 20E, Premier Building, Suite 202J
  Niceville, FL 32578
  Michael Veth (937) 529-8384

  **Georgia Institute of Technology-Main Campus**
  225 North Ave
  Atlanta, GA
  19-1-T4.01-3821 ARC
  Autonomous Navigation on Icy Moons and Ocean Worlds [48]