Proposals Selected for Negotiation of Contracts

- **Alabama A&M University**
  Normal, Alabama 35762
  Normal, AL 35762

  **Streamline Automation, LLC**
  3100 Fresh Way Southwest
  Huntsville, AL 35805
  Alton Reich (256) 713-1220
  19-1-T6.05-3299 LaRC
  [Testing of COTS Systems in Space](#) [1]

- **Arizona State University**
  650 E Tyler Mall Goldwater Center # 208
  Tempe, AZ 85281

  **New Rights Group, Inc. DBA Development Seed**
  1226 9th Street Northwest, Second Floor
  Washington, DC 20001
  Mark Wronkiewicz (573) 578-1453
  19-1-T4.01-2855 ARC
  [Planetary-Scale Surface Feature Detection and Mapping for Future Exploration Missions](#) [2]

- **Arizona State University**
  650 E Tyler Mall Goldwater Center # 208
  Tempe, AZ 85281

  **Cactus Materials**
  7700 S River Parkway
Chandler, AZ 85284

Mohammed Rafiqul Islam (480) 213-4704
19-1-T6.06-4319 JSC

Controlling Silver Release from Antimicrobial Surface Coatings for Biofouling Control [3]

• **Arizona State University-Tempe**

University Drive and Mill Avenue

Tempe, AZ

**Alphacore, Inc.**

398 South Mill Avenue, Suite 304

Tempe, AZ 85281

Kimberlee Olson (480) 494-5618
19-1-T13.01-4035 SSC


• **Arizona State University-Tempe**

551 E. Tyler Mall St ERC RM 159

Tempe, AZ 85281

**H2O Insights, LLC**

12794 E Sahuaro Drive

Scottsdale, AZ 85259

Kelly Westerhoff (480) 209-9140
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 [5]

• **Auburn University**

141 Engineering Drive

Auburn, AL 36849

**Research in Flight**

1919 North Ashe Court
Auburn, AL 36830
Roy Hartfield (334) 444-8523
19-1-T15.01-2965 ARC


• Clemson University
201 Sikes Hall
Clemson, SC

Touchstone Research Laboratory, Ltd.
The Millennium Centre, 1142 Middle Creek Road
Triadelphia, WV 26059
Brian Gordon (304) 547-5800
19-1-T12.01-4092 LaRC

Precision Heated Tooling for QOA Curing of Thin-Ply Composites [7]

• COLORADO STATE UNIVERSITY
Sponsored Programs; 601 S. Howes St.
Fort Collins, CO 80523

QorTek, Inc.
1965 Lycoming Creek Road, Suite 205
Williamsport, PA 17701
Cathy Bower (570) 322-2700
19-1-T2.02-3763 GRC

Propellant Storage and Distribution System Based on Textured Ceramic Valves for Xenon Electric Propulsion Systems [8]

• COLORADO STATE UNIVERSITY
Sponsored Programs; 601 S. Howes St.
Fort Collins, CO 80523

Plasma Controls, LLC
1180 La Eda Lane
Energy and Velocity Analyzer for Distributions of Electric Rockets [9]

- **Duke University**
  103 Allen Bldg
  Durham, NC

  Multi3D, LLC
  434 Golden Harvest Loop
  Cary, NC 27519
  Allen Gray (919) 667-7499
  19-1-T8.04-3301 GSFC

  Rapid Prototyping of Beam-Shaping Metamaterial Antennas via Additive Manufacturing of a Highly Conductive Filament [10]

- **George Washington University**
  2121 I Street, NW
  Washington, DC

  CertainTech, Inc.
  20695 Settlers Point Place
  Sterling, VA 20165
  Ponniah Srinivasan (703) 584-5721
  19-1-T6.06-3792 ARC


- **Georgia Institute of Technology-Main Campus**
  225 North Ave
  Atlanta, GA

  Veth Research Associates, LLC
  4591 Highway 20E, Premier Building, Suite 202J
Niceville, FL 32578
Michael Veth (937) 529-8384
19-1-T4.01-3821 ARC

Autonomous Navigation on Icy Moons and Ocean Worlds [12]

- Georgia Institute of Technology-Main Campus
  225 North Ave
  Atlanta, GA

Continuum Dynamics, Inc.
34 Lexington Avenue
Ewing, NJ 08618
Barbara Agans (609) 538-0444
19-1-T15.01-2847 ARC

Next Generation Distributed Electric Propulsion Urban Air Mobility Aircraft Analysis/Design Tools [13]

- Georgia Institute of Technology-Main Campus
  225 North Ave
  Atlanta, GA

Plasma Processes, LLC
4914 Moores Mill Road
Huntsville, AL 35811
Timothy McKechnie (256) 851-7653
19-1-T2.03-3789 MSFC

Dual Mode Green Monopropellant Propulsion System for Interplanetary Missions [14]

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

Applied NanoFemto Technologies, LLC
181 Stedmen Street, Unit #2
Lowell, MA 01851
Jing Chen (978) 761-4293
19-1-T8.02-3207 JSC

**Photonics Integrated Circuit Enabled Miniature On-Chip Urine Test system with High Sensitivity and Reliability** [15]

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

**Rochester Precision Optics**
850 John Street
West Henrietta, NY 14586
Stephanie McCaig (585) 292-5450
19-1-T8.04-3019 JPL

**Hierarchical Metasurface Optics for Multiplexed Visible to Terahertz Cross-Band Systems** [16]

- **Massachusetts Institute of Technology**
  77 Massachusetts Avenue
  Cambridge, MA 02139

**Espace, Inc.**
30 Lynn Avenue
Hull, MA 02045
Francois Martel (781) 925-3893
19-1-T2.03-2775 MSFC

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

- **North Carolina State University at Raleigh**
  2701 Sullivan Drive
  Raleigh, NC 27695

**Opterus Research and Development, Inc.**
4221 Rolling Gate Road
Fort Collins, CO 80526
Thomas Murphey (505) 250-3006
19-1-T12.01-2915 GRC

Braided Thin-Ply Tapes [18]

- Northwestern University
  633 Clark St.
  Evanston, IL 60208

Intelligent Fiber Optic Systems Corporation
2363 Calle Del Mundo
Santa Clara, CA 95054
Behzad Moslehi (408) 565-9004
19-1-T13.01-2665 SSC

Enhanced Real Time Distributed Strain and Temperature Monitoring for Rocket Ground Testing [19]

- Oklahoma State University-Main Campus
  107 Whitehurst
  Stillwater, OK

SoneLite, Inc.
2311 Via Aprilia
Del Mar, CA 92014
Paul Bremner (619) 977-4048
19-1-T5.02-3311 KSC

Electric Field Prediction and Mapping Methods Within Spacecraft Enclosures [20]

- Pennsylvania State University-Main Campus
  201 Old Main
  University Park, PA

Continuum Dynamics, Inc.
34 Lexington Avenue
Ewing, NJ 08618
Barbara Agans (609) 538-0444
19-1-T15.01-3500 AFRC

DEP Aircraft Terminal Area Ride Quality/Safety of Operations Assessment Tool [21]

- **Purdue University-Main Campus**
  
  155 South Grant Street

  West Lafayette, IN 47907

  **AnalySwift**
  
  5413 Crus Corvi Road

  West Jordan, UT 84081

  Allan Wood (801) 599-5879

  19-1-T12.01-3920 LaRC

  Efficient High-Fidelity Modeling of High Strain Thin-Ply Composites [22]

- **Purdue University-Main Campus**

  155 South Grant Street

  West Lafayette, IN 47907

  **Spectral Energies, LLC**

  4065 Executive Drive

  Dayton, OH 45430

  Sivaram Gogineni (937) 266-9570

  19-1-T2.03-4300 GRC

  Concurrent High-Fidelity Measurements and Simulations for Advancing the Design of Rotating Detonation Engines [23]

- **Regents of the University of Colorado**

  3100 Marine Street

  Boulder, CO 80303

  **Orbit Logic, Inc.**

  7852 Walker Drive

  Greenbelt, MD 20770
• Research Foundation of the City University of New York-Advanced Science Research Center
  85 Saint Nicholas Terrace
  New York, NY 10031

  Nanohmics, Inc.
  6201 East Oltorf Street, Suite 400
  Austin, TX 78741
  Mike Mayo (512) 389-9990
  19-1-T8.04-3418 GSFC
  Metagrating Beam Shaping Optics [25]

• Stanford University
  3160 Porter Drive Suite 100
  Palo Alto, CA 94304

  Tyvak Nano-Satellite System, Inc.
  15330 Barranca Parkway
  Irvine, CA 92618
  Todd Mosher (949) 562-8684
  19-1-T4.03-4413 JPL
  Distributed Multi-GNSS Timing and Localization (DiGiTal) 2.0 for Nanosatellites [26]

• Texas A&M Engineering Experiment Station
  7607 Eastmark Drive
  College Station, TX 77840

  Lynntech, Inc.
  2501 Earl Rudder Freeway South
  College Station, TX 77845
  Darla Hisaw (979) 764-2219
19-1-T8.02-2760 GRC

Integrated Multi-Mode Photonic Crystal Spectrometer with On-Chip Photodetection [27]

- Texas A&M Engineering Experiment Station
  7607 Eastmark Drive
  College Station, TX 77840

  Mycroft AI, Inc.
  300 East 39th Street
  Kansas City, MO 64111
  Eric Jurgeson (913) 406-4011
  19-1-T11.04-4219 LaRC
  Development of A Digital Assistant for Early Mission Analysis and Design [28]

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

  Mirios, Inc.
  429 West Valerio Street, #25
  Santa Barbara, CA 93101
  Alexander Spott (805) 364-2987
  19-1-T8.02-3360 GSFC
  Multispectral Mid-Infrared Laser [29]

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

  Renan Moreira
  4453 La Paloma Avenue
  Santa Barbara, CA 93105
  Renan Moreira (805) 319-2491
Broadband Arrayed Waveguide Grating with Microwave Kinetic Detector Array for Fully Integrated High-Resolution Photonic Spectrograph [30]

- The Regents of the University of Minnesota
  200 Oak Street S.E.
  Minneapolis, MN 55455

ASTER Labs, Inc.
155 East Owasso Lane
Shoreview, MN 55126
Suneel Sheikh (651) 484-2084
19-1-T4.03-3451 JPL
Provably Convergent Game-Theoretic Coordination for Space Vehicle Swarms [31]

- The University of Texas at Austin
  110 Inner Campus Drive
  Austin, TX

Cornerstone Research Group, Inc.
510 Earl Boulevard
Miamisburg, OH 45342
Chrysa Theodore (937) 320-1877
19-1-T12.05-3201 JSC
In-Situ Application of Multi-Layer Thermal Protection System [32]

- The University of Texas at San Antonio
  One UTSA Circle
  San Antonio, TX

Emergent Space Technologies, LLC
7901 Sandy Spring Road, Suite 511
Laurel, MD 20707
Everett Cary (301) 345-1535
19-1-T11.03-3448 MSFC

**ROBOT: Rules Oriented Blockchain Operations Transactor** [33]

- **University of Arkansas at Little Rock**
  2801 S University Ave
  Little Rock, AR

  **Nanomatronix, LLC**
  700 Research Center Boulevard
  Fayetteville, AR 72701
  Matthew Leftwich (479) 215-9438
  19-1-T6.06-4074 JSC

  **Thermally Partially Reduced Graphene Oxide Membranes for Water Recovery from Wastewater** [34]

- **University of Florida**
  201 Criser Hall PO Box 114000
  Gainesville, FL

  **SurfPlasma**
  8722 Northwest 9th Place
  Gainesville, FL 32606
  Subrata Roy (810) 516-0991
  19-1-T15.01-3721 GRC

  **Vortex Control for Low-Noise DEP Urban Aircraft** [35]

- **University of Houston-Clear Lake**
  2700 Bay Area Blvd
  Houston, TX

  **Tietronix Software, Inc.**
  1331 Gemini Avenue, Suite 300
  Houston, TX 77058
  Frank Hughes (281) 461-9300
  19-1-T11.03-2769 MSFC
Blockchain for Model Based System Engineering [36]

- University of Maine
  168 College Avenue
  Orono, ME

  Martin Defense Group, LLC
  841 Bishop Street, Suite 1110
  Honolulu, HI 96813
  Todd Peltzer (808) 551-4713
  19-1-T12.01-3729 LaRC

  Thin-Ply Inflatable Composites with Drop Stitch Reinforcement [37]

- University of Maryland
  3112 Lee Building, 7809 Regents Drive
  College Park, MD 20742

  Cornerstone Research Group, Inc.
  510 Earl Boulevard
  Miamisburg, OH 45342
  Chrysa Theodore (937) 320-1877
  19-1-T15.03-3203 GRC

  Hybrid Anode for Electrified Aircraft Propulsion [38]

- University of Michigan
  3003 South State Street
  Ann Arbor, MI 48109

  CU Aerospace, LLC
  3001 Newmark Drive
  Champaign, IL 61822
  David Carroll (217) 239-1703
  19-1-T2.02-2527 GRC
Advanced Flow Control System for In-Space Electric Propulsion [39]

- **University of Michigan**
  3003 South State Street
  Ann Arbor, MI 48109

  **En’Urga, Inc.**
  1201 Cumberland Avenue, Suite R
  West Lafayette, IN 47906
  Deepa Divakaran (765) 497-3269
  19-1-T2.03-3834 AFRC
  Planar Chemiluminescence Absorption Tomography [40]

- **University of Southern California**
  3720 S. Flower Street, 3rd Floor
  Los Angeles, CA 90089

  **Intelligent Optical Systems, Inc.**
  2520 West 237th Street
  Torrance, CA 90505
  Reuben Sandler (424) 263-6305
  19-1-T12.05-3033 ARC
  A Modular In-Situ Curing Apparatus for Thermoset Resin Mixtures Applied as Thermal Protection Systems [41]

- **University of Tennessee Space Institute**
  411 B.H. Goethert Pkwy
  Tullahoma, TN 37388

  **Streamline Automation, LLC**
  3100 Fresh Way Southwest
  Huntsville, AL 35805
  Alton Reich (256) 713-1220
  19-1-T2.03-2452 MSFC
Demonstration of Dual Mode Ionic Liquid Propulsion [42]

- University of Utah
  201 Presidents Circle, ROOM 201
  Salt Lake City, UT

  Chemtronergy, LLC
  3619 West 1987 South
  Salt Lake City, UT 84104
  Gege Tao (801) 981-9997
  19-1-T15.03-4336 GRC

  Solid State Li-S Battery Based on Novel Polymer/Mineral Composite [43]

- Vanderbilt University
  2101 West End Avenue
  Nashville, TN

  Alphacore, Inc.
  398 South Mill Avenue, Suite 304
  Tempe, AZ 85281
  Kimberlee Olson (480) 494-5618
  19-1-T6.05-4023 LaRC

  Model and Testing Based Assurance of COTS Systems in Space Radiation Environments [44]

- Virginia Tech
  Virginia Tech MC 0238
  Blacksburg, VA 24061

  Nanosonic, Inc.
  158 Wheatland Drive
  Pembroke, VA 24136
  Melissa Campbell (540) 626-6266
  19-1-T6.06-3677 JSC

• **Virginia Tech**  
 245 Goodwin Hall  
Blacksburg, VA 24061

**Nanosonic, Inc.**  
158 Wheatland Drive  
Pembroke, VA 24136  
Melissa Campbell (540) 626-6266  
19-1-T12.05-3378 JSC  
*Cure in Place Hybridsil Polyimide Materials for Next Generation Additively Manufactured TPS Heat Shields* [46]

• **Western Washington University**  
516 High Street  
Bellingham, WA  

**Tethers Unlimited, Inc.**  
11711 North Creek Parkway South, Suite D113  
Bothell, WA 98011  
Robert Hoyt (425) 486-0100  
19-1-T12.05-4015 JSC  
*Resin Additive Manufacturing Processed Thermal Protection Systems (RAMP TPS)* [47]

• **Wichita State University**  
1845 N. Fairmount  
Wichita, KS  

**Electro Magnetic Applications**  
7655 West Mississippi Avenue, Suite 300  
Lakewood, CO 80226  
Matthew Miller (217) 840-1382  
19-1-T5.02-3243 KSC  
*Power Balance Solver Enhanced by an Experimental Absorption Cross-Section Database* [48]