Proposals Selected for Negotiation of Contracts

- Alabama (4)
  - 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 [1]
  - 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 [2]
  - 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 [3]

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  

• Arizona (4)  
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  
Ensuring Correct Sensor Operation and Decisions Under Harsh Environments [5]

Alphacore, Inc.  
398 South Mill Avenue, Suite 304  
Tempe, AZ 85281  
Kimberlee Olson (480) 494-5618
Arkansas (1)

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 [9]

California (6)

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 [10]

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 [11]

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 [12]

**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 [13]

**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 [14]

**Twyżak 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 (DiGiTal) 2.0 for Nanosatellites [15]

- Colorado (3)
  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 [16]

  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

  Braided Thin-Ply Tapes [17]

  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 [18]

• District of Columbia (1)
  
  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 [19]

• Florida (2)
  
  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 [20]

  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 [21]

- Hawaii (1)
  
  Navatek, 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]

- Illinois (1)
  
  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 [23]
• Indiana (1)

  **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](#) [24]

• Maryland (2)

  **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](#) [25]
  
  **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


• **Massachusetts (2)**

  **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 02139
  19-1-T8.02-3207 JSC

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

  **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

  [28] Bimodal Ion-Chemical Thruster System

• **Minnesota (1)**

  **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 [29]

- Missouri (1)

  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 [30]

- New Jersey (2)

  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 [31]
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](#) [32]

- **New York (1)**

  **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](#) [33]

- **North Carolina (1)**

  **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](#) [34]
• Ohio (3)

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 [35]

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 [36]

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
• Pennsylvania (1)

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 [38]

• Texas (3)

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 [39]

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** [40]

**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** [41]

- **Utah (2)**
  - **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** [42]

  - **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 [43]

- Virginia (3)
  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 [44]

  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


  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* [46]

- **Washington (1)**
  
  **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
  
  *Resin Additive Manufacturing Processed Thermal Protection Systems (RAMP TPS)* [47]

- **West Virginia (1)**
  
  **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* [48]