Proposals Selected for Negotiation of Contracts

- **Arizona State University-Polytechnic**
  P.O. Box 876011
  Tempe, AZ 85287

  **Alphacore, Inc.**
  304 South Rockford Drive
  Tempe, AZ 85281
  Esko Mikkola (480) 494-5618
  22-1-T4.01-2229 ARC


- **Arizona State University-Tempe**
  University Drive and Mill Avenue
  Tempe, AZ 85281

  **Alphacore, Inc.**
  304 South Rockford Drive
  Tempe, AZ 85281
  Esko Mikkola (480) 494-5618
  22-1-T13.01-2230 SSC


- **Board of Trustees of the University of Illinois (at Urbana-Champaign)**
  3400 North Charles Street
  Champaign, IL 61820

  **Physical Sciences, Inc.**
  20 New England Business Center
Andover, MA 01810
William Marinelli (978) 738-8226
22-1-T5.04-1819 GRC
Photonic Integrated Circuit Assisted Single Photon Detectors (PICA SPDs) [3]

• **Board of Trustees of the University of Illinois (at Urbana-Champaign)**
  
  3400 North Charles Street
  
  Champaign, IL 61820
  
  Ten One Aerospace LLC
  
  1012 10th Street NorthEast
  
  Washington, DC 20002
  
  Christopher Roscoe (202) 964-3668
  
  22-1-T10.03-1349 JPL
  

• **Cal Poly Corporation**
  
  500 Lincoln Drive
  
  San Luis Obispo, CA 93407
  
  Empirical Systems Aerospace, Inc.
  
  3580 Sueldo Street
  
  San Luis Obispo, CA 93401
  
  Andrew Gibson (805) 704-1865
  
  22-1-T15.04-1855 AFRC
  
  Wind Tunnel and Flight Testing of Scalable Modular Aerial Research Testbed [5]

• **Carnegie Mellon University**
  
  5000 Forbes Avenue
  
  Pittsburgh, PA 15213
  
  Astrobotic Technology, Inc.
  
  1016 North Lincoln Avenue
Pittsburgh, PA 15233
Andrew Horchler (216) 272-3882
22-1-T10.03-2033 JPL
Efficient Distributed State Estimation for Swarm Robotics [6]

- **Carnegie Mellon University**
  5000 Forbes Avenue
  Pittsburgh, PA 15213

  **Nokomis, Inc.**
  310 5th Street
  Charleroi, PA 15022
  Thomas Ruschel (724) 747-0703
  22-1-T10.04-1383 ARC
  Hiawatha Spacecraft Autonomous System Health (SASH) Management System [7]

- **Duke University**
  103 Allen Building
  Durham, NC 27708

  **Nanohmics, Inc.**
  6201 East Oltorf Street, Suite 400
  Austin, TX 78741
  Mike Mayo (512) 389-9990
  22-1-T10.04-1898 ARC
  Demonstration of Space-Qualified Environmental Evaluation Drones with Wireless Intelligent Networked Data Processing (SPEEDWINDs) [8]

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

  **Wayfarer Aircraft Research and Development**
  8505 Rockledge Road
- Florida Institute of Technology
  150 West University Boulevard
  Melbourne, FL

  NYRAD, Inc
  274 East Eau Gallie Boulevard, Suite 140
  Indian Harbour Beach, FL 32938
  Rhonda Lyons (321) 482-4944
  22-1-T10.05-2368 LaRC

  The Exploration Medical Ecosystem Design Infrastructure (ExMEDI): system to build trust within Cyber-Physical-Human (CPH) teams. [10]

- Georgia Tech Research Corporation (GTRC)
  5303
  Atlanta, GA 30318

  Physical Sciences, Inc.
  20 New England Business Center
  Andover, MA 01810
  William Marinelli (978) 738-8226
  22-1-T8.07-1822 GSFC


- Iowa State University
  4000 Central Florida Boulevard
  Ames, IA

  Elder Research, Inc.
  300 West Main Street, Suite 301
Charlottesville, VA 22903
William Goodrum (434) 973-7673
22-1-T10.05-1152 LaRC

Uncertainty Quantification of Representations of Unknown Dynamic Systems through Universal Differential Equations [12]

• Johns Hopkins University
3400 North Charles Street

Baltimore, MD

sci_zone
17133 Inavale

Holland, MI 49424
Andrew Santangelo (505) 205-8315
22-1-T10.04-1854 ARC


• Michigan Technological University
103 Allen Building

Houghton, MI

MTRI, Inc.
3600 Green Court, Suite 100

Ann Arbor, MI 48105
Gregory Leonard (734) 913-6871
22-1-T10.03-1993 JPL

Tool for Autonomous Terrain Exploration of Remote Space [14]

• Michigan Technological University
103 Allen Building

Houghton, MI

Lunar Outpost, Inc.
17700 South Golden Road, Unit 102
Golden, CO 80401
Justin Cyrus (908) 577-4014
22-1-T7.04-2186 KSC


• **New York Institute of Technology**
  One Grand Avenue
  Old Westbury, NY

  **X-wave Innovations, Inc.**
  555 Quince Orchard Road, Suite 510
  Gaithersburg, MD 20878
  Jennifer Duan (301) 200-8368
  22-1-T13.01-2449 SSC

  A Wireless, Thin-Film Surface Acoustic Wave (SAW) Sensor System for Rocket Propulsion Test Applications [16]

• **New York University**
  70 Washington Square South
  New York, NY

  **Air Company Holdings Inc**
  407 Johnson Avenue
  Brooklyn, NY 11206
  Stafford Sheehan (774) 644-4320
  22-1-T7.05-1301 GRC

  Single-step production of kerosene-based fuels from carbon dioxide and hydrogen [17]

• **New York University**
  70 Washington Square South
  New York, NY

  **Space Villages Inc.**
  1044 Alderbrook Lane
• **North Carolina State University at Raleigh**
  2701 Sullivan Drive
  Raleigh, NC 27695

  **Paragon Space Development Corporation**
  3481 East Michigan Street
  Tucson, AZ 85714
  Joel Johnson (520) 382-4854
  22-1-T6.08-1881 JSC

  **Spacesuit Cover against the Abrasive Lunar Environment (SCALE) & eXploration Textile for high Oxygen eNvironments (xTON)** [19]

• **Oakwood University**
  7000 Adventist Boulevard NorthWest
  Huntsville, AL

  **SSS Optical Technologies, LLC**
  515 Sparkman Drive, Suite 122
  Huntsville, AL 35816
  Sergey Sarkisov (256) 489-0081
  22-1-T5.05-2115 MSFC

  **UV stable coating for sail-embedded PV power** [20]

• **Ohio State University-Main Campus**
  190 N. Oval Mall
  Columbus, OH

  **Srico, Inc.**
  2724 Sawbury Boulevard
Columbus, OH 43235
Andrea Pollick (614) 799-0664
22-1-T5.04-1093 GSFC
[Compact Temperature Tolerant Quantum Entangled Light Source][21]

- **Purdue University - Main Campus**
  155 South Grant Street
  West Lafayette, IN 47907

  **AnalySwift**
  444 Jennings Street
  West Lafayette, IN 47906
  Allan Wood (801) 599-5879
  22-1-T12.07-1417 LaRC
  [Tool for Thermomechanical Design of Tailorable Composites and Hybrid Material Systems][22]

- **Rector & Visitors of the University of Virginia**
  PO Box 400195
  Charlottesville, VA 22904

  **Innosense, LLC**
  2531 West 237th Street, Suite 127
  Torrance, CA 90505
  Kisholoy Goswami (310) 530-2011
  22-1-T14.01-1651 GRC
  [Nanomaterials Based in situ Hydrogen Sensor for Oxygen Process Streams][23]

- **Regents of the University of Colorado**
  3100 Marine Street
  Boulder, CO 80303

  **Opterus Research and Development, Inc.**
  815 14th Street SouthWest, Suite C200
• **Rochester Institute of Technology**
  1 Lomb Memorial Drive
  Rochester, NY 14623

  **Aktiwave**
  150 Lucius Gordon Drive
  West Henrietta, NY 14586
  Christophe Dorrer (585) 355-2706
  22-1-T8.07-1782 GRC

  *Femtosecond Laser Inscription of 3D Waveguide Beam Splitters and Integrated Photonic Circuits for Mid-IR sensing* [25]

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

  **TRACLabs, Inc.**
  100 Northeast Interstate 410 Loop #520
  San Antonio, TX 78216
  David Kortenkamp (281) 461-7886
  22-1-T10.04-2569 ARC

  *Multi-Agent Anomaly Resolution System (MaARS)* [26]

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

  **Nanohmics, Inc.**
  6201 East Oltorf Street, Suite 400
**Austin, TX 78741**

Mike Mayo (512) 389-9990

22-1-T5.05-2038 MSFC

[Solar Sail Integrated Antenna Technology](#) [27]

- **The Pennsylvania State University**
  110 Technology Building
  University Park, PA 16802

**Blue Ridge Research and Consulting**
29 North Market Street, Suite 700
Asheville, NC 28801
Josh Mellon (828) 252-2209

22-1-T15.04-1263 AFRC

[Full-Scale eVTOL Acoustic Measurements, Modeling, Scaling, and Validation](#) [28]

- **The University of California San Diego**
  9500 Gilman Drive, Mail Code 0934
  La Jolla, CA 92093

**ADVR, Inc.**
2310 University Way, Building 1-1
Bozeman, MT 59715
Betsy Heckel (406) 522-0388

22-1-T8.06-1605 GSFC

[High brightness, waveguide-based IR quantum light sources](#) [29]

- **The University of Central Florida Board of Trustees**
  70 Washington Square South
  Orlando, FL 32826

**Cislune Company**
301 North Almansor Street
Alhambra, CA 91801
Erik Franks (661) 390-1060
22-1-T7.04-1066 KSC

[Cislune Regolith Pathways and Landing Pads][30]

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

  **Omega Optics, Inc.**
  8500 Shoal Creek Boulevard, Building 4, Suite 200
  Austin, TX 78757
  Gloria Chen (512) 996-8833
  22-1-T8.07-2594 GSFC

  [Highly Efficient Atmospheric Gases Detections Using Integrated Vertical Crystal Waveguide Arrays][31]

- **The University of Texas at San Antonio**
  1644
  San Antonio, TX 78249

  **Astroport Space Technologies, Inc.**
  110 East Houston Street, 7th Floor
  San Antonio, TX 78205
  Sam Ximenes (210) 404-2981
  22-1-T7.04-1851 KSC

  [Lunar Surface Site Preparation for Landing/Launch Pad and Blast Shield Construction][32]

- **University of California - Davis**
  1850 Research Park Drive, Suite 300
  Davis, CA 95618

  **TRACLabs, Inc.**
  100 Northeast Interstate 410 Loop #520
  San Antonio, TX 78216
David Kortenkamp (281) 461-7886

22-1-T4.01-1828 ARC


- **University of California - Santa Barbara**
  7000 Adventist Boulevard NorthWest
  Santa Barbara, CA 93106

**Systems & Processes Engineering Corporation**
4120 Commercial Center Drive, Suite 500
Austin, TX 78744

Natalie Welp (512) 691-8171

22-1-T5.04-2446 GRC

**Diamond Quantum Memory** [34]

- **University of Central Florida**
  4000 Central Florida Boulevard
  Orlando, FL

**Buendea,LLC.**
24 Sw 22nd Road
Miami, FL 33129

Julian Reyes (305) 510-7868

22-1-T11.06-2113 JSC

**Real-Time and Cloud-based Simulation Processing for Digital Twin Environments** [35]

- **University of Colorado Boulder**
  OCG, 3100 Marine Street, Room 481, 572 UCB
  Boulder, CO 80303

**Diamond Age Technology LLC**
15714, Crestbrook Drive
Houston, TX 77059
John Blackwell (512) 470-2817
22-1-T11.06-1681 GSFC

Hyper-realistic Elastically Computed Topologies in Adaptive Reality Environments (HECTARE) [36]

- University of Colorado Boulder
  70 Washington Square South
  Boulder, CO 80309

  Aurora Engineering
  4 Redbud Court
  Potomac, MD 20854
  Alexander Barrie (814) 441-6410
  22-1-T10.05-2150 GSFC

  Module for Event Driven Operations on Spacecraft (MEDOS) [37]

- University of Dayton Research Institute
  300 College Park
  Dayton, OH 45469

  CFD Research Corporation
  6820 Moquin Drive NorthWest
  Huntsville, AL 35806
  Silvia Harvey (256) 715-6918
  22-1-T12.07-1523 LaRC

  Design and Optimization Toolkit for Advanced Tailorable Composites [38]

- University of Dayton Research Institute
  300 College Park
  Dayton, OH 45469

  Orbit Logic, Inc.
  7852 Walker Drive
  Greenbelt, MD 20770
  Ella Herz (301) 982-6234
22-1-T4.01-1810 ARC

**Microgravity Environment Autonomy for Robotic Spacecraft (MEARS)** [39]

- **University of Delaware**
  Northern Boulevard
  Newark, DE 19716

**Phase Sensitive Innovations, Inc.**
116 Sandy Drive
Newark, DE 19713
Ahmed Sharkawy (302) 898-5544

22-1-T8.07-2014 GRC

**Electro-Optic Photonic Integrated Circuits in Thin Lithium Niobate** [40]

- **University of Delaware**
  Northern Boulevard
  Newark, DE 19716

**Intact Solutions**
345 West Washington Avenue Suite 301
Madison, WI 53703
Mary Freytag (608) 469-7292

22-1-T12.07-1654 LaRC

**Intact Fiber: An Application Programming Interface for the Design, Simulation, and Optimization of Tow-Steered Composites** [41]

- **University of Delaware**
  Northern Boulevard
  Newark, DE 19716

**STF Technologies, LLC**
18 Shea Way Suite 101-102
Newark, DE 19713
Richard Dombrowski (716) 799-5935
22-1-T6.08-1716 JSC

Multi-Functional Environmental Protection Garment Shell Textile for Extreme Surface Environments [42]

• University of Florida
  600 S Clyde Morris Boulevard
  Gainesville, FL 32611

  Interdisciplinary Consulting Corporation
  5745 Southwest 75th Street, #364
  Gainesville, FL 32608
  Deontae Lafayette (407) 697-3697

22-1-T13.01-1499 SSC

WIRA - Wireless Instrumentation for Rocket Applications [43]

• University of Houston
  212 E. Cullen Building
  Houston, TX

  Tietronix Software, Inc.
  1331 Gemini Avenue, Suite 300
  Houston, TX 77058
  Sicilia Liranzo (832) 557-1170

22-1-T11.06-2398 JSC

Shared immersive XR Hyper-Realistic Environment for Extravehicular Activity Surface Operations [44]

• University of North Texas
  1155 Union Circle #305250
  Denton, TX 76203

  L’Garde, Inc.
  15181 Woodlawn Avenue
  Tustin, CA 92780
  Larry Beebe (714) 259-0771
Design Tool for Highly Accurate Shape and Structural Evaluation of Space Antennas and Structures made with Tailorable Composites - SMART

University of Notre Dame
400 Main Building
Notre Dame, IN

Gossamer Space
116 Beth Drive
Lansdale, PA 19446
Charles West (828) 582-9051

Testing and Characterization of A Graphene/Polyethylene Nanocomposite for Solar Sail Applications

University of Southern California
3720 South Flower Street, 3rd Floor
Los Angeles, CA 90089

Contour Crafting Corporation
215 South Douglas Street
El Segundo, CA 90245
Behrokh Khoshnevis (310) 430-5255

Novel Payload Conveyance System - Demonstration in Planetary Berm Construction

University of Washington
4333 Brooklyn Avenue Northeast, Box 359472
Seattle, WA 98195

CFD Research Corporation
6820 Moquin Drive NorthWest
Huntsville, AL 35806
Silvia Harvey (256) 715-6918
• **University of Wisconsin-Madison**
  500 Lincoln Drive
  Madison, WI

  Protoinnovations, LLC
  100 43rd Street
  Pittsburgh, PA 15201
  Dimitrios Apostolopoulos (412) 916-8807
  22-1-T4.01-2647 ARC

  [A Software Framework for Advancing Perception Capabilities for Rovers Operating in Harsh Lunar Environments](#) [49]

• **Utah State University**
  1415 Old Main Hill, Room 64
  Logan, UT 84322

  Nexolve Holding Company, LLC
  290 Dunlop Boulevard, Southwest, Suite 200
  Huntsville, AL 35824
  Paul DuPre (256) 836-7785
  22-1-T5.05-1391 MSFC

  [Embedded Sail Antenna Technology](#) [50]

• **Virginia Polytechnic Institute and State University**
  300 Turner Street Northwest, Suite 4200
  Blacksburg, VA 24061

  Nanosonic, Inc.
  158 Wheatland Drive
  Pembroke, VA 24136
  Amanda Moye (540) 626-6266
Design Tools for Lightweight Affordable Hybrid Space Exploration Cryotanks [51]

- Virginia Polytechnic Institute and State University
  300 Turner Street Northwest, Suite 4200
  Blacksburg, VA 24061
  Nanosonic, Inc.
  158 Wheatland Drive
  Pembroke, VA 24136
  Amanda Moye (540) 626-6266
  22-1-T6.08-1473 JSC
  NanoLayered Extruded Textiles for Extreme Surface Environments and High Oxygen Atmospheres [52]

- Virginia Tech
  345 Goodwin Hall
  Blacksburg, VA 24061
  M4 Engineering, Inc.
  4020 Long Beach Boulevard
  Long Beach, CA 90807
  Kevin Roughen (562) 981-7797
  22-1-T12.07-2715 LaRC
  Topology Optimization for Design of Highly Tailored Composites for AFP Manufacturing [53]