



## Proposals Selected for Negotiation of Contracts

Expand All

- **Focus Area 3 Autonomous Systems for Space Exploration (9)**

**Aster Labs, Inc.**

155 East Owasso Lane

Shoreview, MN 55126

Suneel Sheikh (651) 484-2084

**The Regents of the University of Minnesota**

200 Southeast Oak Street

Minneapolis, MN 55455

21-1-T10.03-1470 JPL

[Space Vehicle Swarm Coordination and Control using Temporal Logic](#) [1]

**Charles River Analytics, Inc.**

625 Mount Auburn Street

Cambridge, MA 02138

Mark Felix (617) 491-3474

**Worcester Polytechnic Institute**

100 Institute Road

Worcester, MA 50883

21-1-T10.03-1245 JPL

[Autonomous Swarming for Teams of Exploration Robots \(ASTER\)](#) [2]

**Geisel Software, Inc.**

67 Millbrook Street

Worcester, MA 01606

Brian Geisel (508) 936-5099

**Arizona State University**

551 East Tyler Mall, ERC 305

Tempe, AZ 85287

21-1-T10.03-2297 JPL

[Communicationless Coordination via Intent Estimation and Intent-Expressive Motion Planning in Multiagent Exploration](#) [3]

**Intelligent Imaging Innovations**

3575 Ringsby Court, Suite 102

Denver, CO 80216

Colin Monks (303) 638-8914

**Regents of the University of Colorado**

3100 Marine Street

Boulder, CO 80303

21-1-T10.04-1550 ARC

[REALISE - Remote Experimentation and Analysis Laboratory In Space](#) [4]

**Mosaic ATM, Inc.**

540 Fort Evans Road Northeast, Suite 300

Leesburg, VA 20176

Chris Brinton (703) 980-3961

**Universities Space Research Association**

7178 Columbia Gateway Drive

Columbia, MD 21046

21-1-T10.05-1207 LaRC

[Machine Learning Explainability and Uncertainty Quantification to Support Calibration of Trust in Automated Systems](#) [5]

**Orbit Logic, Inc.**

7852 Walker Drive

Greenbelt, MD 20770

Ella Herz (301) 982-6234

**Regents of the University of Colorado**

3100 Marine Street, Room 450

Boulder, CO 80303

21-1-T10.03-1622 JPL

[On-board Swarm Control for Autonomy and Responsiveness \(OSCAR\)](#) [6]

**Orbit Logic, Inc.**

7852 Walker Drive

Greenbelt, MD 20770

Ella Herz (301) 982-6234

**University of Maryland**

7809 Regents Drive, Lee Building 3112

College Park, MD 20742

21-1-T10.04-2457 ARC

[Lunar FLAPPER](#) [7]

**Space Lab Technologies, LLC**

5455 Spine Road, Suite ME

Boulder, CO 80301

Christine Escobar (720) 309-8475

**Regents of the University of Colorado**

0001

Boulder, CO 80309

21-1-T10.04-2151 ARC

[HEART - Habitat ECLSS Analytics for Resilience Tool for Real Time Habitability Management](#) [8]

**XAnalytix Systems**

9424 Pinyon Court

Clarence Center, NY 14032

Pamela Crassidis (716) 741-6395

**Rochester Institute of Technology**

1 Lomb Memorial Drive

Rochester, NY 14623

21-1-T10.05-2174 GSFC

[Multi-agent and Optimization Reasoner for Space Exploitation \(MORSE\)](#) [9]

- **Focus Area 4 Robotic Systems for Space Exploration (4)**

- **Astroport Space Technologies, Inc.**

- 110 East Houston Street, 7th Floor

- San Antonio, TX 78205

- Sam Ximenes (210) 404-2981

- **The University of Texas at San Antonio**

- 1644

- San Antonio, TX 78249

- 21-1-T7.04-1428 KSC

- [Induction Furnace-Nozzle for Forming and Placing Lunar Regolith Bricks for Landing Pad Construction](#) [10]

- **Cislune Company**

- 1410 Kalmia Avenue

- Boulder, CO 80304

- Erik Franks (661) 390-1060

- **University of Central Florida, Florida Space Institute**

- Partnership I, Research Parkway

- Orlando, FL 32826

- 21-1-T7.04-2630 KSC

- [High Efficiency Sintering via Beneficiation of the Building Material](#) [11]

- **Masten Space Systems, Inc.**

- 1570 Sabovich Street

- Mojave, CA 93501

- Colin Ake (678) 977-7039

- **Pacific International Space Center for Exploration Systems (PISCES)**

- 99 Aupuni Street, Suite 212-213

- Hilo, HI 96720

21-1-T7.04-2835 KSC

[Low-Energy Additive Construction for the Moon and Mars](#) [12]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

**Massachusetts Institute of Technology**

4307

Cambridge, MA 02139

21-1-T7.04-1573 KSC

[Structural Printing of Solar Melted Regolith](#) [13]

• **Focus Area 5 Communications and Navigation (4)**

**Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

**University of California - San Diego**

7500 Gilman Drive

La Jolla, CA 92093

21-1-T5.04-2355 GRC

[Entangled Photon Transceiver Leveraging Photonic Integrated Circuit Technology](#) [14]

**Phase Sensitive Innovations, Inc.**

116 Sandy Drive

Newark, DE 19713

Ahmed Sharkawy (302) 898-5544

**University of Delaware**

0000

Newark, DE 19716

21-1-T5.04-2489 GRC

[Entangled Photon Pair Source Based On Thin-Film Lithium-Niobate-On-Insulator Photonic Integrated Circuits](#) [15]

**Photon Spot, Inc.**

142 West Olive Avenue

Monrovia, CA 91016

Vikas Anant (626) 228-2610

**Massachusetts Institute of Technology**

4307

Cambridge, MA 02139

21-1-T5.04-1427 GRC

[System Integration and Packaging towards an Integrated Photonic Quantum Repeater](#) [16]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

B. David Green (978) 689-0003

**Board of Trustees of the University of Illinois (at Urbana-Champaign)**

SPA, 1901 South First Street, Suite A

Champaign, IL 61820

21-1-T5.04-1614 GRC

[Quantum-memory Wavelength-Division Multiplexing \(QWDM\)](#) [17]

• **Focus Area 6 Life Support and Habitation Systems (6)**

**Bloomfield**

2026 E Carson Street, 2nd Floor

Pittsburgh, PA 15203

Sara Longo (412) 965-9301

**Carnegie Mellon University**

5000 Forbes Avenue

Pittsburgh, PA 15213

21-1-T6.07-1224 KSC

[Visual AI for Controlled Environment Agriculture](#) [18]

**GOEPPERT, LLC**

2200 Arch Street, Unit 504

Philadelphia, PA 19103

Vanya Buvac (267) 687-9996

**University of Connecticut**

1133

Storrs, CT 06269

21-1-T6.06-1195 JSC

[New-generation spacecraft water monitoring with flight ready solid state nanopores](#) [19]

**Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

**Clemson University**

5702

Clemson, SC 29634

21-1-T6.06-1513 ARC

[Multi-Analyte Microfluidic Colorimetric Sensor for Inorganic Ions](#) [20]

**Nikira Labs Inc.**

1074 Wentworth Street, Unit B

Mountain View, CA 94043

Manish Gupta (650) 906-0274

**Colorado State University**

601 South Howes Street, Suite 500, 2002 Campus Delivery

Fort Collins, CO 80523

21-1-T6.07-2911 KSC

[Spectroscopic System for the Accurate Determination of \[O2\], \[CO2\], d18O-O2, and d13C-CO2 in Plant Chambers](#) [21]

**Space Lab Technologies, LLC**

5455 Spine Road, Suite ME

Boulder, CO 80301

Christine Escobar (720) 309-8475

**University of Florida**

5500

Gainesville, FL 32611

21-1-T6.07-2266 KSC

[A Smart Spectral Polarimetric Imager for Autonomous Plant Health Monitoring](#) [22]

**TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

**University of Puerto Rico**

9046

San Juan, PR 00681

21-1-T6.06-2093 JSC

[Monitoring Systems for Inorganic and Organic Analytes in Spacecraft Water Streams](#) [23]

• **Focus Area 8 In-Situ Resource Utilization (4)**

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 640-2487

**Case Western Reserve University**

10900 Euclid Avenue



Cleveland, OH 44106

21-1-T14.01-1649 MSFC

[Continuous Correlations for Complete Boiling Curves of Cryogenic Fluids](#) [24]

**Mudawar Thermal Systems Inc.**

3495 Kent Avenue

West Lafayette, IN 47906

Issam Mudawar (765) 463-3771

**Purdue University - Main Campus**

155 South Grant Street

West Lafayette, IN 47907

21-1-T14.01-1272 GRC

[Heat Transfer Correlations for Complete Cryogenic Pool Boiling Curve](#) [25]

**NexTech Materials, Ltd.**

404 Enterprise Drive

Lewis Center, OH 43035

Andrew Patton (614) 842-6606

**Washington State University**

1060

Pullman, WA 99164

21-1-T14.01-2398 GRC

[Robust and Reversible Metal Supported Solid Oxide Cells for Lunar and Martian Applications](#) [26]

**Special Power Sources LLC**

930 West Ely Street, Suite M1

Alliance, OH 44601

Crispin DeBellis (330) 806-2671

**Kansas State University**

5100

Manhattan, KS 66506

21-1-T14.01-1369 GRC

[Robust, high-performance, contaminants-tolerant, reversible protonic ceramic electrochemical cells for producing Lunar and Martian propellant and generating power](#) [27]

- **Focus Area 9 Sensors, Detectors, and Instruments (7)**

- **Freedom Photonics, LLC**

- 41 Aero Camino

- Santa Barbara, CA 93117

- Daniel Renner (805) 967-4900

- **Purdue University - Main Campus**

- 155 South Grant Street

- West Lafayette, IN 47907

- 21-1-T8.07-1794 GSFC

- [Photonic Integrated Microwave Spectrometer for Hyperspectral Sounding](#) [28]

- **Hedgefog Research, Inc.**

- 1891 North Gaffey Street, Suite 224

- San Pedro, CA 90731

- Alex Kolessov (310) 935-2206

- **University of Oklahoma**

- 201 Stephenson Parkway, Suite 3100

- Norman, OK 73019

- 21-1-T8.06-2067 GRC

- [Opto-Atomic Quantum Squeezer](#) [29]

- **Lambda Consulting/Advanced Nanophotonics**

- 4437 Windsor Farm Road

- Harwood, MD 20776

- John Hagopian (240) 678-9475

- **George Mason University**

- 0000

- Fairfax, VA 22030

21-1-T8.06-2232 GSFC

[Single Photon Generation by Functionalized Quantum Dots on Carbon Nanotube Arrays for Single Photon Detector Calibration and Quantum Entanglement Applications](#) [30]

**Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

John Forester (434) 220-9449

**The Regents of the University of California, Santa Barbara**

3227 Cheadle Hall, 3rd Floor

Santa barbara, CA 93106

21-1-T8.07-2178 GRC

[Heterogeneous Silicon Photonics Magnetometer and Laser System-on-Chip](#) [31]

**LyteChip, Inc.**

292 Nevada Street

Newton, MA 02460

Tian Gu (302) 563-5402

**Massachusetts Institute of Technology**

77 Massachusetts Avenue, North East 18-901

Cambridge, MA 02139

21-1-T8.07-1939 GSFC

[High-Performance On-chip Spectrometer for Space Applications](#) [32]

**Qubitekk**

1400 Norris Road

Bakersfield, CA 93308

Stephanie Rosenthal (760) 599-5104

**University of New Mexico - Main Campus**

0001

Albuquerque, NM 87131

21-1-T8.06-2455 GSFC

[Quantum Light Source for On-Site Detector Calibration](#) [33]

**Vescent Photonics, Inc.**

14998 West 6th Avenue, Suite 700

Golden, CO 80401

Scott Rommel (303) 296-6766

**Lincoln Laboratory**

244 Wood Street

Lexington, MA

21-1-T8.07-1991 GSFC

[Ultra-narrow Linewidth Lasers for Deployed Quantum Timing Applications](#) [34]

• **Focus Area 12 Entry, Descent, and Landing Systems (3)**

**Corvid Technologies**

153 Langtree Campus Drive

Mooresville, NC 28117

Tracy Williams (405) 410-6552

**North Carolina State University at Raleigh**

2701 Sullivan Drive

Raleigh, NC 27695

21-1-T9.02-2587 LaRC

[Moving Discontinuous Galerkin Solver for Hypersonic Aerothermodynamics](#) [35]

**Pointwise, Inc.**

213 South Jennings Avenue

Fort Worth, TX 76104

Nick Wyman (817) 377-2807

**Massachusetts Institute of Technology**

77 Massachusetts Avenue, North East 18-901

Cambridge, MA 02139

21-1-T9.02-1625 ARC

[Rapid and Robust Analysis of High-Speed Environments Using Inviscid Output-Based Adaptive-Mesh Solvers](#) [36]

**Scientific Simulations, LLC**

1582 Inca Drive

Laramie, WY 82072

Dimitri Mavriplis (307) 399-8717

**National Institute of Aerospace**

100 Exploration Way

Hampton, VA 23666

21-1-T9.02-1964 LaRC

[GPU Acceleration of an Adjoint Enabled Real Gas Hypersonic Flow Solver](#) [37]

• **Focus Area 14 On-orbit Servicing, Assembly, and Manufacturing (OSAM) (1)**

**Open Additive, LLC**

2750-A Indian Ripple Road

Beavercreek, OH 45440

Randall Pollak (937) 306-6161

**University of Pittsburgh-Pittsburgh Campus**

3420 Forbes Avenue

Pittsburgh, PA 15260

21-1-T12.06-2998 JPL

[Predictive Thermal Simulation for Laser Powder Bed Fusion](#) [38]

• **Focus Area 15 Materials, Materials Research, Structures, and Assembly (6)**

**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

21-1-T12.07-1562 LaRC

[An Efficient High-fidelity Design Tool for Advanced Tailorable Composites](#) [39]

**Composites Automation, LLC**

9 Adelaide Court

Newark, DE 19702

Dirk Heider (302) 831-8898

**University of Delaware**

0000

Newark, DE 19716

21-1-T12.07-2790 LaRC

[Design Tools for Tailorable and Ultra-Thin TuFF Composites](#) [40]

**M4 Engineering, Inc.**

4020 Long Beach Boulevard

Long Beach, CA 90807

Kevin Roughen (562) 981-7797

**Virginia Tech**

0001

Blacksburg, VA 24061

21-1-T12.07-2597 LaRC

[Design Tools for Advanced Tailorable Composites](#) [41]

**Mainstream Engineering Corporation**

200 Yellow Place

Rockledge, FL 32955

Benjamin Blach (321) 631-3550

**Virginia Polytechnic Institute and State University**

300 Turner Street Northwest, Suite 4200

Blacksburg, VA 24061

21-1-T12.05-3298 JSC

[In-Situ Fabrication of Spacecraft Thermal Protection Systems](#) [42]

**Raven 3D, LLC**

415 Elm Avenue, Apartment 1

Norman, OK 73069

Blake Herren (918) 645-2776

**University of Oklahoma-Norman Campus**

865 Asp Avenue, Room 212

Norman, OK

21-1-T12.05-1948 JSC

[Microwave Assisted Deposition of Cyanate Ester Composites](#) [43]

**RE3D Inc**

1100 Hercules Avenue, Suite 220

Houston, TX 77058

Michael Strong (732) 580-8754

**The University of Tennessee-Knoxville**

201 Dougherty Engineering, Building 1512 - Middle Drive

Knoxville, TN 37996

21-1-T12.05-3097 JSC

[3D Printing of High Temperature Thermoset Foams for Space Vehicular Thermal Protection Systems](#) [44]

• **Focus Area 16 Ground & Launch Processing (3)**

**Intelligent Fiber Optic Systems Corporation**

4425 Fortran Drive

San Jose, CA 95134

Behzad Moslehi (408) 565-9004

**Stanford University**

8445

Stanford, CA 94304

21-1-T13.01-1326 SSC

[Intelligent Photonic Micro-Sensor Network for Rocket Propulsion Ground Testing](#) [45]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Amanda Moye (540) 626-6266

**Virginia Tech**

Virginia Tech MC 0238

Blacksburg, VA 24061

21-1-T13.01-1411 SSC

[Wireless Networked, High Temperature, Wide Bandwidth Pressure Sensors for Propulsion System Monitoring](#) [46]

**Nokomis, Inc.**

310 5th Street

Charleroi, PA 15022

Eli Polovina (724) 483-3946

**Pennsylvania State University, EMS Energy Institute**

4400

University Park, PA 16802

21-1-T13.01-2556 GRC

[Intelligent Sensor Systems](#) [47]

• **Focus Area 18 Air Vehicle Technology (2)**

**Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Melissa Kinney (609) 538-0444



**Pennsylvania State University**

233D Hammond Building

University Park, PA 16802

21-1-T15.04-1416 AFRC

[Full-Scale eVTOL Aircraft Performance and Aeroacoustic Test, Evaluation, and Modeling](#) [48]

**Electra Aero Inc**

218 North Cherry Street

Falls Church, VA 22046

Tina McGovern (540) 660-2917

**University of Southern California**

3720 South Flower Street, 3rd Floor

Los Angeles, CA 90089

21-1-T15.04-1254 AFRC

[Prediction and Validation of High Lift Performance with Strong Wing Propulsor Interactions](#) [49]

• **Focus Area 21 Small Spacecraft Technologies (1)**

**Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24011

John Forester (434) 220-9449

**The University of Alabama in Huntsville**

0001

Huntsville, AL 35899

21-1-T5.05-2304 MSFC

[Embedded Fiber-Optic Sensing for Solar and Electric Sails](#) [50]

• **Focus Area 23 Digital Transformation for Aerospace (7)**

**EdgeDweller, Inc.**

1917 East Wildcat Road

Clarkesville, GA 30523

Wolfgang Reichard (404) 414-8889

**Georgia Tech Research Corporation (GTRC)**

5303

Atlanta, GA 30318

21-1-T11.05-1182 MSFC

[Model-based Intelligent Decisions for Higher Innovation Value and Efficiency \(MINDHIVE\)](#) [51]

**Emerging Technology Ventures, Inc.**

1300 Lavelle Road

Alamogordo, NM 88310

Eugene Hudson (575) 446-9337

**Navajo Technical University**

0849

Crownpoint, NM 87313

21-1-T11.05-1825 MSFC

[Digital Twin Data Acquisition System for Institutional Facility Management](#) [52]

**Global Technology Connection, Inc.**

2839 Paces Ferry Road, Suite 1160

Atlanta, GA 30339

Ash Thakker (770) 803-3001

**Georgia Institute of Technology-Main Campus**

225 North Avenue

Atlanta, GA 30332

21-1-T11.05-1297 MSFC

[Model-based Enterprise Architecture for Institutional Management Digital Twins](#) [53]

**Intelligent Automation, Inc.**

15400 Calhoun Drive, Suite 190

Rockville, MD 20855

Mark James (301) 294-5221

**University of Maryland**

7809 Regents Drive, Lee Building 3112

College Park, MD 20742

21-1-T11.04-2736 LaRC

[LINUS: An Intelligent Digital Assistant for UAM Operators](#) [54]

**Modus Operandi, Inc.**

1333 Gateway Drive, Suite 1026

Melbourne, FL 32901

Barbara Cole (321) 473-1401

**Florida Institute for Human and Machine Cognition**

6008

Pensacola, FL 32502

21-1-T11.04-1418 LaRC

[Vehicle Crew Operations and Maintenance Assistant](#) [55]

**STEM Resources**

1700 Main Street, #165874

Little Rock, AR 72216

Jessie Walker (505) 369-6427

**Fayetteville State University**

1200 Murchison Road

Fayetteville, NC 28301

21-1-T11.04-1711 LaRC

[Augmented Intelligence & Cognitive Support Ecosystem \(AICSE\)](#) [56]

**Ujima Digital**

1550 Wewatta, Suite 200

Denver, CO 80202

David Emanuel (904) 444-9000

**United States Air Force Academy**

2304 Cadet Drive, Suite 3800

USAFA, CO 80840

21-1-T11.05-2986 MSFC

[Digital Engineering for Model Based Enterprise](#) [57]

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