



## Proposals Selected for Negotiation of Contracts

Expand All

- **Focus Area 1 In-Space Propulsion Technologies (12)**

**ATA Engineering, Inc.**

13290 Evening Creek Drive South, Suite 250

San Diego, CA 92128

Joshua Davis (858) 480-2028

17-1-T1.02-9977 MSFC

[Multiphysics Framework for Prediction of Dynamic Instability in Liquid Rocket Engines](#) [1]

**CASCADE Technologies, Inc.**

2445 Faber Place, Suite 100

Palo Alto, CA 94303

Donna Carrig (408) 482-3749

17-1-T1.02-9877 MSFC

[A Massively Parallel Framework for Low-Dissipation, Multiphysics Simulations of Rocket Engines](#) [2]

**CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

17-1-T1.02-9954 MSFC

[Multiphase Modeling of Solid Rocket Motor Internal Environment](#) [3]

**CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

17-1-T1.02-9953 MSFC

[Transient Acoustic Environment Prediction Tool for Launch Vehicles in Motion during Early Lift-Off](#) [4]

**Exquadrum, Inc.**

12130 Rancho Road

Adelanto, CA 92301

Glen Goede (760) 530-7927

17-1-T1.01-9985 MSFC

[Bantam Rocket Affordable SLV Stage \(BRASS\)](#) [5]

**MSNW, LLC**

8551 154th Avenue Northeast

Redmond, WA 98052

John Slough (425) 867-8900

17-1-T2.01-9984 SSC

[Nuclear Propulsion through Direct Conversion of Fusion Energy](#) [6]

**Princeton Satellite Systems**

6 Market Street, Suite 926

Plainsboro, NJ 08536

Michael Paluszek (609) 275-9606

17-1-T2.01-9966 SSC

[High Efficiency RF Heating for Small Nuclear Fusion Rocket Engines](#) [7]

**Princeton Satellite Systems**

6 Market Street, Suite 926

Plainsboro, NJ 08536

Stephanie Thomas (609) 275-9606

17-1-T2.01-9960 SSC

[Superconducting Coils for Small Nuclear Fusion Rocket Engines](#) [8]

**Streamline Numerics, Inc.**

3221 North West 13th Street, Suite A

Gainesville, FL 32609

Siddharth Thakur (352) 271-8841

17-1-T1.02-9942 MSFC

[High Performance Simulation Tool for Multiphysics Propulsion Using Fidelity-Adaptive Combustion Modeling](#) [9]

**Systema Technologies, Inc.**

10809 120th Avenue Northeast

Kirkland, WA 98033

Taylor Banks (425) 487-4020

17-1-T1.01-9882 MSFC

[Low-Cost Launch Propulsion Stage and Deployment Bus for Smallsats](#) [10]

**Terves, Inc.**

24112 Rockwell Drive, Suite C

Euclid, OH 44117

Andrew Sherman (216) 404-0053

17-1-T1.01-9889 MSFC

[High Density Hybrid Motors](#) [11]

**TGV Rockets, Inc.**

2519 Benning Road Northeast

Washington, DC 20002

Pat Bahn (240) 462-8848

17-1-T1.01-9850 MSFC

[Low Cost Intermediate Stage for Affordable Nano/Micro Launch](#) [12]

• **Focus Area 2 Power Energy and Storage (6)**

**Advanced Cooling Technologies, Inc.**

1046 New Holland Avenue

Lancaster, PA 17601

William Anderson (717) 205-0602

17-1-T3.01-9990 SSC

[Waste Heat Recovery by Thermo-Radiative Cell for Space Applications](#) [13]

**Applied Material Systems Engineering, Inc. (AMSENG)**

2309 Pennsbury Court

Schaumburg, IL 60194

Mukund Deshpande (630) 372-9650

17-1-T3.01-9851 SSC

[Encrypted Self-Targeting Energy Beams for Power Transmission Designed for Satellite and Space Habitat Applications](#) [14]

**EleQuant Knowledge Innovation Data Science, LLC**

Swann Street Northwest, Apartment 302

Washington, DC 20009

Regina Llopis (415) 509-9137

17-1-T3.02-9967 GRC

[Holomorphic Embedding for Loadflow Integration of Operational Thermal and Electric Reliable Procedural Systems](#) [15]

**PC Krause and Associates, Inc.**

3000 Kent Avenue, Suite C1-100

West Lafayette, IN 47906

Davida Parks (765) 464-8997

17-1-T3.02-9778 GRC

[Autonomous Power Controller for Mission Critical Microgrids](#) [16]

**Physical Sciences, Inc.**

20 New England Business Center

Andover, MA 01810

David Green (978) 689-0003

17-1-T3.01-9959 SSC

[Electrical Power from Thermal Energy Scavenging in High Temperature Environments](#) [17]

**Stottler Henke Associates, Inc.**

1650 South Amphlett Boulevard, Suite 300

San Mateo, CA 94402

Nate Henke (650) 931-2700

17-1-T3.02-9922 GRC

[Intelligent, Autonomous Electrical Power System Management and Distribution](#) [18]

- **Focus Area 3 Autonomous Systems for Space Exploration (7)**

- **Advanced Space, LLC**

- 2100 Central Avenue Suite 102

- Boulder, CO 80301

- Bradley Cheetham (720) 545-9191

- 17-1-T11.02-9964 GSFC

- [Efficient On-board Lamberts Solution for DSM](#) [19]

- **CrossTrac Engineering, inc.**

- 2730 Street Giles Lane

- Mountain View, CA 94040

- John Hanson (408) 898-0376

- 17-1-T11.02-9927 GSFC

- [Optical Intersatellite Communications for CubeSat Swarms](#) [20]

- **Jaycon Systems**

- 801 East Hibiscus

- Melbourne, FL 32901

- Jiten Chandiramani (321) 505-4560

- 17-1-T11.02-9854 GSFC

- [Vision-Based Navigation for Formation Flight onboard ISS](#) [21]

- **Made in Space, Inc.**

- 427 North Tatnall Street, #56666

- Wilmington, DE 19801

- Michael Snyder (419) 271-0602

- 17-1-T12.01-9795 LaRC

- [Structural-Health Aware Failure-Tolerant Engineered to Respond \(SAFER\) Additively Manufactured](#)

[Systems](#) [22]

**Texas Research Institute Austin, Inc.**

9063 Bee Caves Road

Austin, TX 78733

Christina Morton (512) 615-4497

17-1-T12.01-9924 LaRC

[Advanced Structural Health Monitoring](#) [23]

**TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

17-1-T11.01-9896 ARC

[Flight Director In A Box: Using Learning to Develop Planning Agents For Exploration](#) [24]

**X-wave Innovations, Inc.**

407 Upshire Circle

Gaithersburg, MD 20878

Jennifer Duan (301) 200-8368

17-1-T12.01-9839 LaRC

[An Ultrasonic Wireless Sensor Network for Data Communication and Structural Health Monitoring](#) [25]

• **Focus Area 4 Robotic Systems for Space Exploration (6)**

**DigitalFish, Inc.**

20 North San Mateo Drive, Suite 3

SAN MATEO, CA 94401

Peggy Ary (415) 634-0861

17-1-T4.01-9886 ARC

[Unified Representation for Collaborative Visualization and Processing of Terrain Data](#) [26]

**Honeybee Robotics, Ltd.**

Building 128, Suite 121 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Kristian Mueller (626) 421-7902

17-1-T4.02-9821 KSC

[Planetary LEGO](#) [27]

**Lynntech, Inc.**

2501 Earl Rudder Freeway South

College Station, TX 77845

Darla Hisaw (979) 764-2219

17-1-T4.02-9965 KSC

[Metal Production Away From Earth](#) [28]

**Mesh Robotics, LLC**

142 Crescent Drive

Pittsburgh, PA 15228

Michael Wagner (412) 606-3842

17-1-T4.01-9958 ARC

[Evidence Meshes for Three-Dimensional Modeling, Visualization, and Navigation](#) [29]

**Rolf Miles Olsen**

7025 Alden Drive

West Bloomfield, MI 48324

Rolf Olsen (619) 238-4140

17-1-T4.02-9808 KSC

[Regolith to Steel Powder, Oxygen & Water with Small Equipment](#) [30]

**TRAC Labs, Inc.**

100 North East Loop 410, Suite 520

San Antonio, TX 78216

David Kortenkamp (281) 461-7886

17-1-T4.01-9845 ARC

[The PHARAOH Procedure Execution Architecture for Remote Operations of Autonomous Robots](#) [31]

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

**AFINGEN, Inc.**

6550 Vallejo St. STE101

Emeryville, CA 94608

Ai Oikawa (510) 290-8845

17-1-T7.02-9969 KSC

[Fast Growing High-Yield Wheat and Canola for Efficient Nutrient Recycling Systems](#) [32]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 643-3800

17-1-T6.02-9840 JSC

[Volume Sensor for Flexible Fluid Reservoirs in Microgravity](#) [33]

**Faraday Technology, Inc.**

315 Huls Drive

Englewood, OH 45315

Jennings Taylor (937) 836-7749

17-1-T6.01-9949 ARC

[Next Generation Water Recovery for a Sustainable Closed Loop Living](#) [34]

**Nanosonic, Inc.**

158 Wheatland Drive

Pembroke, VA 24136

Melissa Campbell (540) 626-6266

17-1-T7.02-9906 KSC

[Reusable Nanocomposite Membranes for the Selective Recovery of Nutrients in Space](#) [35]

**Space Lab Technologies, LLC**

P.O. Box 448

Pinecliffe, CO 80471



Christine Escobar (720) 309-8475

17-1-T7.02-9876 KSC

[uG-LilyPond - Floating Plant Pond for Microgravity](#) [36]

**The Space Research Company, LLC**

4865 Qualla Drive

Boulder, CO 80303

Christine Fanchiang (650) 302-2692

17-1-T6.03-9947 JSC

[Elemental Resource Breakdown Approach to Crew-Vehicle Design](#) [37]

• **Focus Area 9 Sensors, Detectors and Instruments (11)**

**American GNC Corporation**

888 Easy Street

Simi Valley, CA 93065

Emily Melgarejo (805) 582-0582

17-1-T13.01-9800 SSC

[Through Wall Wireless Intelligent Sensor and Health Monitoring \(TWall-ISHM\) System](#) [38]

**Applied Research, LLC**

9605 Medical Center Drive, Suite 113E

Rockville, MD 20850

Chiman Kwan (240) 505-2641

17-1-T8.01-9908 JPL

[Fusion of THEMIS and TES for Accurate Mars Surface Characterization](#) [39]

**Freedom Photonics, LLC**

41 Aero Camino

Santa Barbara, CA 93117

Milan Mashanovitch (805) 967-4900

17-1-T8.02-9810 GSFC

[High Performance 3D Photonic Integration for Space Applications](#) [40]

**Honeybee Robotics, Ltd.**

Building 128, Suite 121 63 Flushing Avenue Unit 150

Brooklyn, NY 11205

Kristian Mueller (626) 421-7902

17-1-T8.01-9875 JPL

[Instrumented Bit for In-Situ Spectroscopy \(IBISS\)](#) [41]

**Intelligent Fiber Optic Systems Corporation**

2363 Calle Del Mundo

Santa Clara, CA 95054

Behzad Moslehi (408) 565-9004

17-1-T8.02-9931 GSFC

[Multifunctional Integrated Photonic Lab-on-a-Chip for Astronaut Health Monitoring](#) [42]

**Laser & Plasma Technologies, LLC**

1100 Exploration Way

Hampton, VA 23666

Benjamin Hering (585) 414-2530

17-1-T8.01-9801 JPL

[The Development of an Optic Fiber Based Hybrid Spectroscope](#) [43]

**Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

17-1-T8.02-9849 GSFC

[Heterogeneous Silicon Photonics OFDR Sensing System](#) [44]

**Mark O'Neill, LLC**

812 Belinda Drive

Keller, TX 76248

Mark O' Neill (817) 380-5930

17-1-T15.02-9963 GRC

[25x Space Fresnel Lens Concentrator Using 4\(+\) Junction IMM Solar Cells and Nyctinastic Graphene Radiators to Mitigate LILT Effects for Outer Planet Missions](#) [45]

**OEwaves, Inc.**

465 North Halstead Street, Suite #140

Pasadena, CA 91107

Debra Coler (626) 351-4200

17-1-T8.02-9822 GSFC

[Tunable Opto-electronic Oscillator Based on Photonic Integration of Ultra-High Q Resonators on a SiN Chip](#) [46]

**Trace Matters Scientific, LLC**

2204 Bagby St #3313

Houston, TX 77002

Mazdak Taghioskoui (571) 438-0970

17-1-T8.01-9980 JPL

[Ambient Desorption, Ionization, and Extraction Source for Mars Exploration](#) [47]

**X-wave Innovations, Inc.**

407 Upshire Circle

Gaithersburg, MD 20878

Jennifer Duan (301) 200-8368

17-1-T13.01-9820 SSC

[Self-Powered Multi-Functional Wireless Sensor Network for Nondestructive Evaluation and Structural Health Monitoring](#) [48]

• **Focus Area 15 Lightweight Materials Structures and Assembly / Construction (6)**

**CFD Research Corporation**

701 McMillian Way Northwest, Suite D

Huntsville, AL 35806

Silvia Harvey (256) 726-4858

17-1-T12.04-9923 MSFC

[Prediction and Control of Selective Laser Melting Product Microstructure](#) [49]

**Composites Automation, LLC**

9 Adelaide Court

Newark, DE 19702

Dirk Heider (302) 584-4184

17-1-T12.03-9971 LaRC

[Design and Process Development of Thin-Ply Composites](#) [50]

**Gloyer-Taylor Laboratories, LLC**

112 Mitchell Boulevard

Tullahoma, TN 37388

Paul Gloyer (931) 455-7333

17-1-T12.02-9910 KSC

[Composite Repair System](#) [51]

**Luna Innovations, Inc.**

301 1st Street Southwest, Suite 200

Roanoke, VA 24016

Shirley Evans (540) 961-6724

17-1-T12.02-9846 KSC

[Efficient Composite Repair Methods for Launch Vehicles](#) [52]

**Materials Research and Design, Inc.**

300 East Swedesford Road

Wayne, PA 19087

Kerry Howern (610) 964-9000

17-1-T12.03-9812 LaRC

[Mechanism Based Damage Model for Linerless Thin-Ply Composite Pressure Vessels](#) [53]

**QuesTek Innovations LLC**

1820 Ridge Avenue

Evanston, IL 60201

Voula Colburn (847) 425-8215

17-1-T12.04-9880 MSFC

[Integrated Computational Material Engineering Technologies for Additive Manufacturing](#) [54]

- **Focus Area 16 Ground & Launch Processing (1)**

**Radiometrics Corporation**

4909 Nautilus Court North, #110

Boulder, CO 80301

Dick Rochester (303) 539-2307

17-1-T1.03-9934 KSC

[Launch Weather Decision Support System](#) [55]

- **Focus Area 18 Air Vehicle Technology (3)**

**Continuum Dynamics, Inc.**

34 Lexington Avenue

Ewing, NJ 08618

Barbara Agans (609) 538-0444

17-1-T15.01-9907 AFRC

[Distributed Electric Propulsion Aircraft Comprehensive Analysis and Design Tool](#) [56]

**Embedded Dynamics**

1031 East Moorhead Circle

Boulder, CO 80305

Jacob Cook (970) 376-7775

17-1-T15.01-9993 AFRC

[Maneuvering Environment for Tiltwing Aircraft with Distributed Electric Propulsion](#) [57]

**Empirical Systems Aerospace, Inc.**

P.O. Box 595

Pismo Beach, CA 93448

Andrew Gibson (805) 275-1053

17-1-T15.01-9848 AFRC

[Methodology for Distributed Electric Propulsion Aircraft Control Development with Simulation and Flight Demonstration](#) [58]

- **Focus Area 21 Small Spacecraft Technologies (3)**

**ASTER Labs, Inc.**

155 East Owasso Lane

Shoreview, MN 55126

Suneel Sheikh (651) 484-2084

17-1-T4.03-9857 JPL

[Reinforcement Learning For Coordination And Control of Swarming Satellites](#) [59]

**Creare, LLC**

16 Great Hollow Road

Hanover, NH 03755

Robert Kline-Schoder (603) 643-3800

17-1-T4.03-9792 JPL

[Accurate, Miniature Attitude Determination System](#) [60]

**Scientific Systems Company, Inc.**

500 West Cummings Park, Suite 3000

Woburn, MA 01801

Nicole Withers (781) 933-5355

17-1-T4.03-9829 JPL

[DISCUS: Distributed Intelligent Swarm Control & Utilization System](#) [61]

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