Proposals Selected for Negotiation of Contracts

- **Alabama (2)**
  
  **CFD Research Corporation**  
  701 McMillian Way Northwest, Suite D  
  Huntsville, AL 35806  
  Silvia Harvey (256) 726-4858  
  
  The University of Alabama in Huntsville  
  301 Sparkman Drive NW  
  Huntsville, AL 35899  
  15-1-T6.02-9986 GSFC  
  Improved Forecasting of Solar Particle Events and their Effects on Space Electronics [1]  

- **Sandia National Laboratories**  
  PO Box 5800, MS-1322  
  Albuquerque, NM 87185  
  15-1-T12.02-9985 GRC  

- **California (12)**
  
  **American GNC Corporation**  
  888 Easy Street
Simi Valley, CA 93065  
Emily Melgarejo (805) 582-0582

**Louisiana Tech University**
P.O. Box 3168
Ruston, LA 71272
15-1-T13.01-9874 SSC

*Integrated Monitoring AWAReness Environment (IM-AWARE)* [3]

**ChromoLogic, LLC**
1225 South Shamrock Avenue
Monrovia, CA 91016
Naresh Menon (626) 381-9974

**Caltech**
1200 East California Boulevard
Pasadena, CA 91125
15-1-T8.01-9968 JPL


**Garvey Spacecraft Corporation**
389 Haines Avenue
Long Beach, CA 90814
John Garvey (562) 498-2984

**University of Alaska Fairbanks**
903 Koyukuk Drive
Fairbanks, AK 99775
15-1-T1.01-9963 MSFC

*NLV Upper Stage Development and Flight Testing* [5]

**Intelligent Optical Systems, Inc.**
2520 West 237th Street
Torrance, CA 90505
Reuben Sandler (424) 263-6305
University of North Texas
1155 Union Circle #305250
Denton, TX 76203
15-1-T6.01-9992 JSC


M4 Engineering, Inc.
4020 Long Beach Boulevard
Long Beach, CA 90807
Kevin Roughen (562) 981-7797

Missouri University of Science and Technology
202 Centennial Hall, 300 West 12th St
Rolla, MO 65409
15-1-T11.02-9858 JPL


M4 Engineering, Inc.
4020 Long Beach Boulevard
Long Beach, CA 90807
Myles Baker (562) 305-3391

University of Washington
433 Brooklyn Avenue NE
Seattle, WA 98195
15-1-T4.01-9910 AFRC

[Innovative Aerodynamic Modeling for Aeroservoelastic Analysis and Design](#) [8]

Parabilis Space Technologies, Inc.
1145 Linda Vista Drive
San Marcos, CA 92078
Richard Slansky (855) 727-2245

Utah State University
4100 Old Main Hill
Logan, UT 84322
15-1-T1.01-9931 MSFC

_Polaronyx, Inc._
2526 Qume Drive, Suites 17 and 18
San Jose, CA 95131
Jian Liu (408) 573-0930

_Lawrence Livermore National Laboratory_
PO Box 808
Livermore, CA 94551
15-1-T9.01-9933 LaRC

_Ultra Large Core High Energy Fiber Amplifier_[10]

_Predictive Science, Inc._
9990 Mesa Rim Road, Suite 170
San Diego, CA 92121
Lierin Schmidt (858) 450-6494

_University New Hampshire_
8 College Road
Durham, NH 3824
15-1-T6.02-9936 GSFC

_A Coupled System for Predicting SPE Fluxes_[11]

_Space Micro, Inc._
10237 Flanders Court
San Diego, CA 92121
David Strobel (858) 332-0700

_Univ of Arizona_
1209 E. 2nd Street, Room 303
Tucson, AZ 85721
15-1-T5.01-9982 GRC
Sensing Aware Autonomous Communications System [12]

Systems Technology, Inc.
13766 Hawthorne Boulevard
Hawthorne, CA 90250
Suzie Fosmore (310) 679-2281

University of Michigan
3003 S State Street, 1061 Wolverine Tower
Ann Arbor, MI 48109
15-1-T4.01-9934 AFRC

Gust Load Estimation and Rejection With Application to Robust Flight Control Design for HALE Aircraft [13]

Veraphotonics, Inc.
40898 Abuelo Way
fremont, CA 94539
An-Dien nguyen (408) 802-7489

University of Miami
1251 Memorial Drive, McArthur Engineering Building, Rm. 325
Coral Gables, FL 33146
15-1-T12.01-9877 LaRC

Fiber Optic Acoustic Emission System for Structural Health Monitoring of Composite Pressure Vessels [14]

• Colorado (1)

Advanced Space, LLC
2100 Central Ave Suite 102
Boulder, CO 80301
Bradley Cheetham (607) 316-1273

The Regents of the University of Colorado
3100 Marine Street Rm 479
Boulder, CO 80303
15-1-T4.02-9966 KSC
A Robust Architecture for Sampling Small Bodies [15]

- **Florida (1)**
  
  **Keystone Synergistic Enterprises, Inc.**  
  664 Northwest Enterprise Drive, Suite 118  
  Port Saint Lucie, FL 34953  
  Bryant Walker (772) 343-7544

  **Mississippi State University**  
  Mississippi State  
  Mississippi State, MS 39762  
  15-1-T12.04-9941 MSFC  

  [Metal Digital Direct Manufacturing (MDDM) for Close-Out of Combustion Chambers and Nozzle Fabrications][16]

- **Illinois (3)**
  
  **Aries Design Automation, LLC**  
  2705 West Byron Street  
  Chicago, IL 60618  
  Miroslav Velev (773) 856-6633

  **Oregon State University**  
  116 Covell Hall, Office of Research and Economic Development  
  Corvallis, IL 97331  
  15-1-T11.01-9878 ARC  

  [Advanced Tools for Effective Automated Test Generation][17]

  **NOUR, LLC**  
  1500 Sheridan Road, Unit 8A  
  Wilmette, IL 60091  
  Manijeh Razeghi (847) 491-7251

  **Northwestern University**
Tunable THz Source for Environmental Monitoring of Planetary Bodies [18]

**NOUR, LLC**
1500 Sheridan Road, Unit 8A
Wilmette, IL 60091
Manijeh Razeghi (847) 491-7251

**Northwestern University**
2220 CAMPUS DR RM 4051
Evanston, IL 60208
15-1-T8.01-9967 JPL

Design and Fabrication of Strain-Balanced nBn Dual-Band LWIR/LWIR Focal Plane Arrays Based on InAsSb/InAs Type-II Superlattices [19]

- **Maryland (2)**

  **Brimrose Technology Corporation**
P.O. Box 616, 19 Loveton Circle
Sparks, MD 21152
Diane Murray (936) 588-6901

  Instrumentation For Multiple Radiation Detection Based On Novel Mercurous Halides For Nuclear Planetology [20]

  **Fisk University**
1000 Seventeenth Avenue N
Nashville, TN 37208
15-1-T8.01-9959 JPL

  Instrumentation For Multiple Radiation Detection Based On Novel Mercurous Halides For Nuclear Planetology [20]

  **N5 Sensors, Inc.**
9610 Medical Center Drive, #200
Germantown, MD 20874
Nichole Sullivan (618) 751-9782
George Mason University
4400 University Drive
Fairfax, VA 22030
15-1-T6.01-9894 JSC

Nanoengineered Hybrid Gas Sensors for Spacesuit Monitoring [21]

- Massachusetts (3)
  
  Aurora Flight Sciences Corporation
  90 Broadway, 11th Floor
  Cambridge, MA 2142
  Scott Hart (617) 500-4892

  University of California, Santa Cruz
  1156 High St.
  Santa Cruz, CA 95064
  15-1-T4.01-9989 AFRC

  Active Twist Control for a Compliant Wing Structure [22]

  Busek Company, Inc.
  11 Tech Circle
  Natick, MA 1760
  Judy Budny (508) 655-5565

  University of Alabama
  Box 870104
  Tuscaloosa, AL 35487
  15-1-T4.02-9916 KSC

  Unmanned Solar Electric Resource Prospector [23]

  Q-Peak, Inc.
  135 South Road
  Bedford, MA 1730
  B. David Green (978) 689-0003
University of Hawaii
2440 Campus Road, Box 368
Honolulu, HI 96822
15-1-T8.01-9947 JPL

Compact Laser for In-Situ Compositional Analysis [24]

- Michigan (2)
  
  Michigan Aerospace Corporation
  1777 Highland Drive, Suite B
  Ann Arbor, MI 48108
  John Dodds (734) 975-8777

  The Regents of the University of Michigan
  2455 Hayward St.
  Ann Arbor, MI 48109
  15-1-T6.02-9946 GSFC

  Improved Forecasts of Solar Particle Events using Eruptive Event Generators based on Gibson-Low and Titov-Demoulin Magnetic Configurations [25]

  Michigan Engineering Services, LLC
  2890 Carpenter Road, Suite 1900
  Ann Arbor, MI 48108
  Christina Vlahopoulos (734) 358-0792

  University of Michigan
  3003 S. State Street
  Ann Arbor, MI 48109
  15-1-T11.02-9925 JPL

  Fusion of Modeling and Simulation Credibility in Multidisciplinary Design [26]

- New Jersey (1)
  
  Wavefront, LLC
  7 Johnston Circle
Basking Ridge, NJ 7920
Jie Yao (609) 558-4806

Utah State University
Utah State University, Logan, Utah 84322-1415
Logan, UT 84322
15-1-T8.01-9857 JPL

*ShortWave Infrared Focal plane Technology for Close-range Active Mineralogy Mapping (SWIFT-CAMM)* [27]

- **New Mexico (3)**
  
  **Bluecom Systems And Consulting, LLC**
  801 University Southeast, Suite 100
  Albuquerque, NM 87106
  Sudharman Jayaweera Kankanamge (505) 615-1807

  **The Regents of the University of New Mexico**
  1700 Lomas Blvd NE Ste 2200, MSC-01 1247
  Albuquerque, NM 87131
  15-1-T5.01-9993 GRC

  *Wideband Autonomous Cognitive Radios for Networked Satellites Communications* [28]

  **Mesa Photonics, LLC**
  1550 Pacheco Street
  Santa Fe, NM 87505
  David Bomse (505) 216-5015

  **University of Central Florida**
  12201 Research Parkway, Suite 501
  Orlando, FL 32826
  15-1-T6.01-9981 JSC

  *Compact Raman Air Sensor* [29]

  **Southwest Sciences, Inc.**
1570 Pacheco Street, Suite E-11
Santa Fe, NM 87505
Alan Stanton (505) 984-1322

Southwest Research Institute
1050 Walnut Street, Suite 300
Boulder, CO 80302
15-1-T6.01-9940 JSC

Spacesuit Multigas Monitor [30]

- New York (1)
  
  Honeybee Robotics, Ltd.
  Building 128, Suite 121 63 Flushing Avenue Unit 150
  Brooklyn, NY 11205
  Kris Zacny (510) 207-4555

  University of Central Florida
  4000 Central Florida Blvd
  Orlando, FL 32816
  15-1-T4.02-9942 KSC

  The World is Not Enough (WINE): Harvesting Local Resources for Eternal Exploration of Space [31]

- Ohio (3)

  Advratech LLC
  714 East Monument Avenue
  Dayton, OH 45402
  Kevin Hartke (937) 865-3730

  Wright State University
  3640 Colonel Glenn Hwy
  Dayton, OH 45435
  15-1-T12.04-9979 MSFC
Real-Time Geometric Analysis of Additive Manufacturing [32]

Advratech LLC
714 East Monument Avenue
Dayton, OH 45402
Kevin Hartke (937) 865-3730

Wright State University
3640 Colonel Glenn Highway
Dayton, OH 45435
15-1-T12.04-9977 MSFC

Integration of Fast Predictive Model and SLM Process Development Chamber [33]

Terves, Inc.
24112 Rockwell Drive, Suite C
Euclid, OH 44117
Brian Doud (216) 870-0990

Pennsylvania State University
University Park
State College, PA 16108
15-1-T1.01-9879 MSFC

Green, Compact Hybrids for Nanosatellite Launchers [34]

• Oregon (2)

Voxtel, Inc.
15985 Northwest Schendel Avenue, Suite 200
Beaverton, OR 97006
Debra Ozuna (971) 223-5646

University of Dayton
300 College Park
Dayton, OH 45469
15-1-T9.01-9898 LaRC
Highly Sensitive Flash LADAR Camera [35]

Voxtel, Inc.
15985 Northwest Schendel Avenue, Suite 200
Beaverton, OR 97006
Debra Ozuna (971) 223-5646

Oregon State University
153 Gilbert Hall
Corvallis, OR 97331
15-1-T9.01-9896 LaRC

Ultra-Miniature High-power Pulsed Microchip Lasers [36]

Pennsylvania (5)

Astrobotic Technology, Inc.
2515 Liberty Avenue
Pittsburgh, PA 15222
Steven Huber (281) 389-8171

Carnegie Mellon University
5000 Forbes Ave
Pittsburgh, PA 15213
15-1-T11.01-9889 ARC

Perception and Navigation for Exploration of Shadowed Domains [37]

Astrobotic Technology, Inc.
2515 Liberty Avenue
Pittsburgh, PA 15222
Steven Huber (281) 389-8171

Carnegie Mellon University
5000 Forbes Ave
Pittsburgh, PA 15213
15-1-T4.02-9888 KSC
Subsurface Prospecting by Planetary Drones [38]

Astrobotic Technology, Inc.
2515 Liberty Avenue
Pittsburgh, PA 15222
Steven Huber (281) 389-8171

Carnegie Mellon University
5000 Forbes Ave
Pittsburgh, PA 15213
15-1-T4.02-9887 KSC

Long-Range Terrain Characterization for Productive Regolith Excavation [39]

Materials Research and Design, Inc.
300 East Swedesford Road
Wayne, PA 19087
Brian Sullivan (610) 964-6131

The Rector and Visitors of the University of Virginia
1001 North Emmet St., PO Box 400195
Charlottesville, VA 22904
15-1-T12.02-9935 GRC

Ceramic Matrix Composite Environmental Barrier Coating Durability Model [40]

Solid State Ceramics, Inc.
136 Catawissa Avenue, Suite 30
Williamsport, PA 17701
Cathy Brooke (570) 320-1777

Pennsylvania State University
124 Land and Water Building
University Park, PA 16802
15-1-T3.01-9926 SSC

Extreme Environment Ceramic Energy Harvesting/Sensors [41]
• Tennessee (2)

Gloyer-Taylor Laboratories, LLC
112 Mitchell Boulevard
Tullahoma, TN 37388
Paul Gloyer (931) 455-7330

University of Alabama in Huntsville
301 Sparkman Drive
Huntsville, AL 35899
15-1-T1.01-9957 MSFC

MetaMorph, Inc.
49 Music Square West Suite 210
Nashville, TN 37203
Justin Knight (615) 585-2967

Vanderbilt University
2301 Vanderbilt Place
Nashville, TN 37240
15-1-T11.02-9998 JPL

• Texas (2)

Tietronix Software, Inc.
1331 Gemini Avenue, Suite 300
Houston, TX 77058
Victor Tang (281) 404-7222

University of Houston-Clear Lake
2700 Bay Area Blvd.
Houston, TX 77058
15-1-T11.02-9988 JPL
Virtual World Editor

TRACLabs, Inc.
100 North East Loop 410, Suite 520
San Antonio, TX 78216
David Kortenkamp (281) 461-7886

Carnegie Mellon University - Silicon Valley
NASA Research Park, Bldg 23
Moffett Field, CA 94305
15-1-T11.01-9943 ARC

Adaptive Resource Estimation and Visualization for Planning Robotic Missions

Virginia (5)

Fibertek, Inc.
13605 Dulles Technology Drive
Herndon, VA 20171
Tracy Perinis (703) 471-7671

Utah State University
1415 Old Main Hill - Room64
Logan, UT 84322
15-1-T9.01-9983 LaRC

Configurable, Multi-Beam, Doppler Ladar Based Precision Landing Sensor

MicroXact, Inc.
1750 Kraft Drive, Suite 1007
Blacksburg, VA 24060
Elena Kochergina (540) 394-4040

Virginia Polytechnic Institute and State University
North End Center, Suite 4200, Virginia Tech 300 Turner Street
Blacksburg, VA 24061
15-1-T3.01-9890 SSC
High Figure-of-Merit Macro-Structured Thermoelectric Materials [47]

Nanosonic, Inc.
158 Wheatland Drive
Pembroke, VA 24136
Melissa Campbell (540) 626-6266

Colorado State University
601 South Howes Street
Fort Collins, CO 80523
15-1-T12.03-9881 JSC

Ultra Low Air and H2 Permeability Cryogenic Bladder Materials for Inflatable Habitats [48]

Prime Photonics, LC
1116 South Main Street
Blacksburg, VA 24060
Steve Poland (540) 315-3649

Virginia Tech
635 Prices Fork Road - MC 0238
Blacksburg, VA 24061
15-1-T3.01-9930 SSC

High Temperature Multimode Harvester for Wireless Strain Applications [49]

Prime Photonics, LC
1116 South Main Street
Blacksburg, VA 24060
Steve Poland (540) 315-3649

Virginia Tech
Burruss Hall
Blacksburg, VA 24061
15-1-T12.01-9908 LaRC

Modified Acoustic Emission for Prognostic Health Monitoring [50]