Proposals Selected for Negotiation of Contracts

- **T1 Center 2011 Technology Investments (4)**
  
  **American GNC Corporation**
  
  888 Easy Street
  
  Simi Valley, CA 93065
  
  Emily Melgarejo (805) 582-0582
  
  **Pennsylvania State University**
  
  P.O. Box 30, Mail Stop 1250J
  
  State College, PA 16804
  
  11-1-T1.03-9808 ARC
  
  Evolutionary Autonomous Health Monitoring System (EAHMS) [1]

- **CFD Research Corporation**
  
  215 Wynn Drive, 5th Floor
  
  Huntsville, AL 35805
  
  Silvia Harvey (256) 726-4858

- **Michigan Technological University**
  
  1400 Townsend Drive
  
  Houghton, MI 49931
  
  11-1-T1.02-9940 ARC
  
  An Electrochemical, Point-of-Care Detector for Reagent-free, In-situ Diagnostics of Pathogens [2]

- **TRACLabs, Inc.**
  
  100 North East Loop 410, Suite 520
  
  San Antonio, TX 78216
  
  David Kortenkamp (281) 461-7886
Brigham Young University  
A-285 ASB  
Provo, UT 84602  
11-1-T1.03-9922 ARC  


Universal Bio Mining, LLC  
665 3rd Street, Suite 250  
San Francisco, CA 94107  
John Cumbers (401) 523-8190

SETI Institute  
189 Bernardo Ave., Suite 100  
Mountain View, CA 94043  
11-1-T1.01-9899 ARC  


- T2 Atmospheric Flight Research and Technology Demonstration (5)

Exquadrum, Inc.  
12130 Rancho Road  
Adelanto, CA 92301  
Glen Goede (760) 246-0279

University of Alabama, Huntsville  
5000 Technology Drive  
Huntsville, AL 35899  
11-1-T2.01-9811 AFRC  

[5] Hybrid Propulsion for Upper-Stage Boosters

Luna Innovations Incorporated  
1 Riverside Circle, Suite 400  
Roanoke, VA 24016  
Shirley Evans (540) 961-6724
Virginia Polytechnic and State University  
1880 Pratt Drive, Suite 2006  
Blacksburg, VA 24060  
11-1-T2.02-9821 AFRC  
Embedded Fiber Optic Shape Sensing for Aeroelastic Wing Components [6]

Lynntech, Inc.  
2501 Earl Rudder Freeway South  
College Station, TX 77845  
G. Renee Hisaw (979) 764-2218

The University of Texas at Austin  
210 East 24th Street, WRW  
Austin, TX 78712  
11-1-T2.01-9954 AFRC  
Dynamic Stall Flow Control Through the Use of a Novel Plasma Based Actuator Technology [7]

Prime Photonics, LC  
1116 South Main Street  
Blacksburg, VA 24060  
Steve Poland (540) 961-2200

Virginia Tech  
304A Holden Hall  
Blacksburg, VA 24061  
11-1-T2.01-9801 AFRC  
Energy Harvesting Wireless Strain Networks [8]

Tao of Systems Integration, Inc.  
1100 Exploration Way  
Hampton, VA 23666  
Arun Mangalam (757) 220-5040

California Institute of Technology  
1200 East California Boulevard, Mail Code 201-15
Vorticity State Estimation For Aeroelastic Control [9]
141 Lomb Memorial Drive  
Rochester, NY 14623  
11-1-T3.01-9817 GRC  

Advanced Epitaxial Lift-Off Quantum Dot Photovoltaic Devices [12]  

TDA Research, Inc.  
12345 West 52nd Avenue  
Wheat Ridge, CO 80033  
John Wright (303) 940-2300  

University of Colorado, Boulder  
572 UCB  
Boulder, CO 80309  
11-1-T3.01-9864 GRC  

Solid-fueled Micro Colloid Thruster [13]  

- **T4 Innovative Sensors, Support Subsystems and Detectors for Small Satellite Applications (4)**  

Applied NanoFemto Technologies, LLC  
181 Stedmen Street, Unit #2  
Lowell, MA 01851  

Jing Chen (978) 761-4293  

University of Massachusetts Lowell  
1 University Avenue  
Lowell, MA 01854  
11-1-T4.01-9886 GSFC  

Photonic antenna coupled middlewave infrared photodetector and focal plane array with low noise and high quantum efficiency [14]  

Arkyd Astronautics, Inc.  
1331 118th Avenue South East, Suite 100  
Bellevue, WA 98005  
Chris Lewicki (425) 336-2448
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139
11-1-T4.01-9919 GSFC


EPIR Technologies, Inc.
590 Territorial Drive
Bolingbrook, IL 60440
Sivalingam Sivananthan (630) 771-0201

University of California Santa Cruz
Engineering Baskin 350A, 1156 High Street
Santa Cruz, CA 95064
11-1-T4.01-9902 GSFC

Infrared Microspectrometer based on MEOMS Lamellar Grating Interferometer [16]

Intelligent Fiber Optic Systems Corporation
2363 Calle Del Mundo
Santa Clara, CA 95054
Behzad Moslehi (408) 565-9004

University of Alabama in Huntsville
Office of the Bursar, UC Room 2’4
Huntsville, AL 35899
11-1-T4.01-9792 GSFC

Miniaurizable, High Performance, Fiber-Optic Gyroscopes for Small Satellites [17]

- T5 Technologies for Compositional Analysis and Mapping (3)
  Aerodyne Research, Inc.
  45 Manning Road
  Billerica, MA 01821
Cameron Martin (978) 663-9500

University of Massachusetts Amherst
Research Administration Building, 70 Butterfield Terrace
Amherst, MA 01003
11-1-T5.01-9789 JPL

Substrate-Enhanced Micro Laser Desorption Ionization Mass Spectrometry [18]

AGILTRON Corporation
15 Presidential Way
Woburn, MA 01801
Sharon Tan (781) 935-1200

Yale University
Becton Center 309; 15 Prospect Street
New Haven, CT 06520
11-1-T5.01-9835 JPL

Uncooled near- and mid-IR spectrometer engine [19]

HJ Science & Technology, Inc.
187 Saratoga Avenue
Santa Clara, CA 95050
Hong Jiao (408) 464-3873

University of Texas, San Antonio
One UTSA Circle
San Antonio, TX 78249
11-1-T5.01-9938 JPL

Lab-on-a-Robot Platform for in-situ Planetary Compositional Analysis [20]

- T6 Innovative Technologies and Approaches for Space (4)

Poulos Air & Space, Inc
2010 Gates Avenue, Unit A
Redondo Beach, CA 90278
Dennis Poulos (310) 594-5009

**Systems Engineering Program, USAF Academy**

12354 Fairchild Drive, Room 6H140

USAFA, CO 80840

11-1-T6.02-9807 JSC

*Active Debris Removal (ADR) System Architecture Analysis Tool (SAAT) Prototype for Orbital Debris Stabilization and Removal Architecture Development* [21]

**Precision Combustion, Inc.**

410 Sackett Point Road

North Haven, CT 06473

John Scanlon (203) 287-3700

**University of Hartford**

200 Bloomfield Avenue

Hartford, CT 06117

11-1-T6.01-9901 JSC

*Compact, Regenerable, Low Power Adsorber for Spacesuit CO2, Humidity, and Trace Contaminant Control* [22]

**TDA Research, Inc.**

12345 West 52nd Avenue

Wheat Ridge, CO 80033

John Wright (303) 940-2300

**University of Colorado at Boulder**

572 UCB

Boulder, CO 80309

11-1-T6.01-9863 JSC

*A Self-Regulating Freezable Heat Exchanger for Spacecraft* [23]

**VectorNav Technologies, LLC**

903 North Bowser Road, Suite 200

Richardson, TX 75081

Jeremy Davis (512) 772-3615
Texas Engineering Experiment Station/Texas A&M University
3141 TAMU
College Station, TX 77845
11-1-T6.02-9880 JSC

Enabling Large-body Active Debris Removal [24]

• **T7 Ground Effects of Launch Acoustics, Payload Integration, and Flexible Polymer Foam Systems (4)**

  **American Aerospace Advisors, Inc**
  1279 Gulph Creek Drive
  Radnor, PA 19807
  Keith Martin (267) 772-1518

  **Drexel University**
  3201 Arch Street, Suite 100
  Philadelphia, PA 19104
  11-1-T7.02-9773 KSC


  **Gordon Nelson and Associates**
  2283 Hamlet Drive
  Melbourne, FL 32934
  Gordon Nelson (321) 255-1163

  **Florida Institute of Technology**
  150 West University Boulevard
  Melbourne, FL 32901
  11-1-T7.03-9842 KSC

  New Flexible FR Polyurethane Foams for Energy Absorption Applications [26]

  **Intelligent Fiber Optic Systems Corporation**
  2363 Calle Del Mundo
Santa Clara, CA 95054
Behzad Moslehi (408) 565-9004

**New Mexico Tech**
801 Leroy Place
Socorro, NM 87801
11-1-T7.01-9791 KSC

*High Performance Acousto-Optic Arrays based on Fiber Bragg Gratings for Measuring Launch Acoustics* [27]

**Nanosonic, Inc.**
158 Wheatland Drive
Pembroke, VA 24136
Lisa Lawson (540) 626-6266

**Virginia Tech**
107 Davidson Hall
Blacksburg, VA 24061
11-1-T7.03-9884 KSC

*Highly Flexible, Fire Resistant HybridSil Foams for Next Generation Fireproofing, Insulation, and Energy Absorption NASA Applications* [28]

• **T8 Autonomous Systems (4)**
  
  **Astrobotic Technology, Inc.**
  4551 Forbes Avenue
  Pittsburgh, PA 15213
  David Gump (412) 682-3282

  **Carnegie Mellon University**
  5000 Forbes
  Pittsburgh, PA 15213
  11-1-T8.01-9780 LaRC

  *Multi-Robot Systems for Subsurface Planetary Exploration* [29]
Neurala LLC
846 East 3rd Street
South Boston, MA 02127
Heather Ames Versace (510) 205-8091

Trustees of Boston University
881 Commonwealth Avenue
Boston, MA 02215
11-1-T8.03-9888 LaRC
Adaptive bio-inspired navigation for planetary exploration [30]

Opto-Knowledge Systems, Inc. (OKSI)
19805 Hamilton Avenue
Torrance, CA 90502
Nahum Gat (310) 756-0520

John Hopkins University / Applied Physics Lab
11100 Johns Hopkins Road Laurel
Laurel, MD 20723
11-1-T8.02-9781 LaRC
High Fidelity Airborne Imaging System for Remote Observation of Space Launch/Reentry Systems [31]

TDC Acquisition Holdings, Inc.
4955 Corporate Drive, Suite 101
Huntsville, AL 35805
Anthony Buszka (256) 759-0486

University of Alabama, Huntsville
301 Sparkman Drive
Huntsville, AL 35805
11-1-T8.01-9762 LaRC
Autonomous Multi-Robot Exploration using UWB [32]
• T9 Technologies for Human and Robotic Space Exploration Propulsion Design and Manufacturing (4)

Carbon-Carbon Advanced Technologies, Inc.
4704 Eden Road
Kenedale, TX 76060
James Thompson (817) 985-2500

Southern Research Institute
2000 Ninth Avenue South
Birmingham, AL 35205
11-1-T9.01-9855 MSFC
Lyoceell Based Carbon Carbon Composite for Use as a Large Exit Cone Material [33]

CFD Research Corporation
215 Wynn Drive, 5th Floor
Huntsville, AL 35805
Silvia Harvey (256) 726-4858

Mississippi State University
P.O. Box 9637
Mississippi State, MS 39762
11-1-T9.01-9966 MSFC
A Multi-disciplinary Tool for Space Launch Systems Propulsion Analysis [34]

Keystone Synergistic Enterprises, Inc.
664 NW Enterprise Drive, Suite 118
Port Saint Lucie, FL 34986
Bryant Walker (772) 343-7544

Mississippi State University
P.O. Box 6156
Mississippi State University, MS 39762
11-1-T9.01-9977 MSFC
Closed-Loop Control of the Thermal Stir Welding Process to Enable Rapid Process/Ppart Qualification [35]

Materials Modification, Inc.
2809-K Merrilee Drive
Fairfax, VA 22031
Tirumalai Sudarshan (703) 560-1371

University of Texas at El Paso
500 W University Avenue
El Paso, TX 79968
11-1-T9.01-9764 MSFC

Polymer Matrix Composites using Fused Deposition Modeling Technology [36]

- T10 Rocket Propulsion/Energy Conservation (4)
  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
  11-1-T10.01-9812 SSC

  Intelligent Distributed and Ubiquitous Health Management System [37]

  Innovative Imaging and Research
  Building 1103, Suite 140C
  Stennis Space Center, MS 39529
  Mary Pagnutti (228) 688-2452

  The University of Southern Mississippi
  118 College Drive #5157
  Hattiesburg, MS 39406
  11-1-T10.02-9974 SSC

  Energy Efficient LED Spectrally Matched Smart Lighting [38]
PC Krause and Associates, Inc.
3000 Kent Avenue, Suite C1-100
West Lafayette, IN 47906
Davida Parks (765) 464-8997

The University of Texas at Austin
Office of Sponsored Projects
Austin, TX 78713
11-1-T10.02-9815 SSC
Intelligent Radiative Materials [39]

Sustainable Innovations, LLC
160 Oak Street
Glastonbury, CT 06033
Trent Molter (860) 652-9690

University of Connecticut
438 Whitney Road, Unit 1133
Storrs, CT 06269
11-1-T10.02-9782 SSC
Hydrogen-Based Energy Conservation System [40]