Teledyne Brown Engineering
Marshall Small Business Alliance (MSBA) Meeting
February 19, 2015

Many images contained herein courtesy of NASA
Headquartered in Thousand Oaks, California, with locations across the globe.

$2.39B in 2014 revenues; over 9,600 employees

Teledyne Technologies is a leading provider of sophisticated instrumentation, digital imaging products and software, aerospace and defense electronics, and engineered systems. For more information, visit Teledyne Technologies’ website at www.teledyne.com.
Teledyne Technologies – Four Segments - $2.39B

Aerospace and Defense Electronics

Instrumentation

Digital Imaging

Engineered Systems

OV-3
Established in 1953 to support Dr. Wernher Von Braun’s Rocket Team

First design to manufacture, high-technology firm in Huntsville, Alabama

Founded, and first tenant of, Cummings Research Park, the second-largest such park in the U.S., named for Teledyne Brown’s first Company President, Milton K. Cummings
Full-Spectrum Engineering and Advanced Manufacturing

- Engineered Systems – Concept definition and prototyping through product lifecycle
- Engineering Services – Support the customer at any phase of the lifecycle
- Hardware Manufacturing – Design and analysis through fabrication, assembly and test, production, and installation and operations
Mission Systems
- Systems Engineering
- Modeling and Simulation
- Test and Evaluation

Space Systems and Commercial Space Imaging
- Multi-User System for Earth Sensing
- Mission Planning and Control Center Operations
- Payload/Cargo Integration
- Space Flight Hardware

Energy & Environment
- Chemical Processing Equipment
- Electrical Penetration Assemblies
- Facilities M&O
- Radiological/Classified Laboratories

Marine & Aviation
- Naval Vessel Design and Manufacture
- LCS Gun Mount
- Army Missile Round Trainer
- Mine Seeking Hardware
Manufacturing Capabilities – TBE Plant 1

- **Mechanical Assembly and Fabrication**
  - 110,000 ft² Manufacturing
    - High bay has 10-ton crane and 39-ft hook height
  - 5,500 ft² Electronics
  - 13,925 ft² Assembly
  - 2,560 ft² Flight Cable
  - 968 ft² Calibration Laboratory
  - 4,100 ft² 100K - Class Clean Room
    - Clean Room has two 5-ton cranes, 23-ft hook height
  - 1,400 ft² 300K - Class Clean Room

- **Electrical/Electronic Assembly**
  - PWB Packaging and Interconnect Wiring
  - Cable Assembly
  - Wiring Harness
  - Chassis Assembly and Wiring

- **Testing**
  - Electronic Functional Testing
  - Cable and Harness Testing

- **Fabrication Capabilities for Large and Small Structures**
  - Machining 4, 5, and 6 axis
  - Sheet Metal Work
  - Painting
  - Welding
  - Assembly
  - Sand Blasting
Teledyne Brown Engineering has the only individual in the United States with 22 Level III certifications in Nondestructive Testing.

*National Aerospace and Defense Contractors Accreditation Program

*American Society for Nondestructive Testing
121 TBE employees received Silver Snoopy Awards, 48 in last 10 years
Astronauts’ personal award for professional excellence – one of NASA’s highest honors

Won NASA’s George M. Low Award in Large Business/Service Category for 2006 and 2011
NASA’s highest honor for quality and excellence

MSFC’s highest honor for quality and excellence

NASA/MSFC’s 2013 Large Business Prime Contractor of the Year
Recognizes support of Small Business Subcontracting Programs under the Marshall Systems Development and Operations Support contract
Prime Contracts to NASA

- MSFC – Engineering Solutions and Prototyping (ESP)
- MSFC – Mission Operations and Integration Services (MO&I)
- JSC – Multi-User System for Earth Sensing (MUSES) – Cooperative Agreement
Delivery Orders (DO) In-Work

- SLS Launch Vehicle/Stages Adapter (LVSA)
- International Space System (ISS)
  - Microgravity Science Glovebox (MSG)
  - Materials Science Research Rack (MSRR)
  - SERVIR Environmental Research and Visualization System (ISERV) Pathfinder
- SLS System Engineering Research and Supply Chain Management (SCM)
SLS Launch Vehicle/Stages Adapter (LVSA)

- Period of Performance: February 1, 2014 – March 13, 2018
- Scope: Design, Develop, Test, Evaluate, and Certify the LVSA assembly, and manufacture the structural test article (STA) and two flight units, with one optional flight unit.
ISS – MSG/MSRR/ISERV

- Period of Performance: April 1, 2014 – March 13, 2015; POP extension through March 2018 in work.
- Scope: Perform engineering, science and technical support for the Microgravity Science Glovebox (MSG), the Materials Science Research Rack (MSRR), and the International Space Station (ISS) SERVIR Environmental Research and Visualization (ISERV) Pathfinder.
SLS System Engineering Research and Supply Chain Management (SCM)

- Period of Performance: August 12, 2014 – August 11, 2016, with a 1-year option

- Scope: Supply the MSFC SLS operations Engineering with System Engineering Supply Chain Management products in support of the SLS design certification and launch preparations. SE SLS Practitioner’s Guide and Training Plan inputs/SLS SCM Model & Map and Process and Reporting Metrics
Mission Operations and Integration (MO&I) Services Contract

- Period of Performance: March 2013 – March 2018, 18-month base period, followed by three 1-year options
- Contract Type: CPAF, Indefinite Delivery/Indefinite Quantity (IDIQ)
- Scope: Provide operations in support of the ISS at MSFC and JSC. Support includes all phases of flight, including mission preparation, crew and flight controller training, and real-time requirements for spaceflight operations.
Mission Operations and Integration (MO&I) Services Contract – Small Business

- Total Subcontracted Dollars – $15.6M
  - Total SB Subcontract Dollars – $14.1M (89.9%)

- Mentor-Protégé Agreement (MPA)
  - MartinFederal Consulting, LLC – 8(a) minority Service-Disabled Veteran Owned (SDVOSB) certified Small Disadvantaged Business (SDB), signed June 2014

- MartinFederal chosen as Small Business Subcontractor of the year nomination for MSFC FY2014
Multi-User System for Earth Sensing (MUSES)

- Period of Performance: February 29, 2012 – February 28, 2020
- Contract Type: Cooperative Agreement
- Scope:
  - Deliver pointing platform providing precision pointing, power, and data services for earth pointing payloads
  - HTV5 transports MUSES to the ISS
  - Payloads are launched within resupply modules
  - ISS provides all launch and on-board services
Subcontractor NASA Support

- **Goddard Space Center** – Ground Systems and Mission Operations (GSMO) contract through Honeywell
- **Langley Research Center** – Technology, Engineering and Aerospace Mission Support (TEAMS 2) contract through Analytical Mechanical Associates, Inc. (AMA)
- **Johnson Space Center** – International Space System (ISS) contract through Boeing (Houston)
Website: www.TBE.com
- Procurement/Supplier Information Form F-380, Rev A

Company Introduction Meeting
- Capabilities statement/certifications/customer knowledge
- Past performance/niche/major contract vehicles/discriminators

Schedule Follow-up Meeting(s)
- Program Managers, Business Developers, Contracts, Procurement Personnel

Our concept of teaming works both ways
- As a Prime, TBE works with qualified small businesses to pursue strategic set-asides where we can bring strength to the team
- Fostering strategic relationships with small businesses that lead to subcontracting as well as prime contracting opportunities
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