



# Capability Statement

## Apogee Systems, Inc.

### **Engineering Services | Technology Development | Program Management**

Apogee Systems, Inc. provides engineering, technology development and program management services to commercial and government organizations. Our team can mobilize the right people, skills and technologies to help organizations improve their performance and successfully execute projects.

As a Veteran Owned Small Business (VOSB), Apogee Systems, Inc. is committed to excellence and creating innovative and flexible solutions for our clients.

What sets Apogee Systems apart from the competition?

- Our people
- Performance-based processes
- Integrated solutions teams
- Client relationships
- Extensive experience with proven results

### **Core Capabilities**

Our technology experts and business professionals, research, analyze, design and implement solutions in the areas of:

- Engineering services
- Technology development
- Program management



## **Engineering Services**

Our Engineering Services focus on developing robust, secure and stable solutions for your business. By incorporating common sense solutions into seemingly daunting deliverables, we can ensure at the start of the project that we will safely deliver the product to completion. Our services include:

- Technical management
- Product development for space and defense systems
- Space and launch system development
- Systems Engineering (Product lifecycle, Subject Matter Expert (SME))
- Electrical, mechanical, software, aerospace and facility engineering
- Simulation and Modeling
- Propulsion and Cryogenic systems

## **Technology Development**

Our technology development services focus on delivering new products based on advanced technology and enabling our customers to have a key technical advantage. Technology development includes:

- Command and Control systems
- Satellite communication subsystems
- System and Hardware Integration Labs
- Simulation and training systems
- Advanced material application in aerospace products
- Additive manufacturing
- Design, development and integration of small satellites
- Propulsion Systems (Chemical, Solid, Electric Propulsion (EP), Hybrid)



## **Program Management**

Our program management services focus on integrated solutions designed to enhance the performance of your business. By incorporating industry best practices and extensive experience into your business processes and management strategies, we can help you stay ahead of the competition and better serve your customers. Our services include:

- Full spectrum Program Management
- Program strategy, planning and control support
- Earned Value Management System (EVMS). EVMS and EVM Lite
- Program, Business and Technical reviews
- Pursuit, capture and proposal development Support
- Digital Transformation
- Lean Agile
- Training of program managers
- Mission Assurance



## Relevant Customer and Projects by Apogee Systems

Project	Project Description
Countdown data tool and simulation training	Developed countdown data management tool and provided training for human spaceflight program. Supported launch team simulations using countdown tool
OmegA Launch System	Provided program management and engineering for development of OmegA ground systems and payload processing facility for USSF NSSL program
Technical Review external reviewer	Provided independent technical review from PDR to CDR for New Glenn mission ops
Ground Based Strategic Deterrent (GBSD) pursuit and proposal	Provide capture, pursuit and proposal management and engineering for USAF Ground Based Missile Deterrent (GBSD)
SLC-46 mission modifications	Performed SLC-46 ground systems modification, configuration and support of operations for NASA AA2 test integration and launch at SLC-46
Launch system analysis	Provided requirements and systems analysis and pad design for foreign small launch vehicle booster stage replacement and launch at VAFB SLC-8 and CCAFS SLC-46
Technology demonstrator wireless satellite communication system	Developed wireless RF (S-Band) satellite bus communication subsystem implementing conformal antennas using CNT material for DoD technology demonstrator
ORS5 launch support	Launch support of Minotaur ORS5 integration and launch from SLC-46
Advanced concept satellite development and launch	Developed, integrated and launched two advanced technology small satellites. Bus manufactured with 3D printing and CNT material.



Project	Project Description
SLC-46 PAD modification to support Minotaur launch	Provide engineering and technicians to perform modifications to SLC-46 PAD and mobile tower to support Minotaur first launch from refurbished PAD
USAF Rocket Propulsion System program	Supported development of USAF SMC EELV launch system for next generation system. Captured RPS OTA funding and implemented program.
Virtual Crew Training	Developed virtual crew training system to enable high fidelity training for certification of critical system operators
Commercial Crew Orbital Vehicle	Engineering support for commercial crew orbital vehicle development
Launch complex PAD refurbishment	Provide systems analysis and engineering for launch complex PAD and mobile tower refurbishment
LAN / WAN design and implementation	Designed and installed LAN / WAN for launch complex with multiple external interfaces. Implemented cybersecurity to protect network
SLC-46 launch communication system modernization	Refurbishment and modernize SLC-46 communication system and comm room. Includes cable plant, voice, data, video and facility monitoring system. Designed Range interface and integrated SLC-46 comm with Range systems. Refurbished comm room including substation, UPS and fire system
Engineering Development Lab (EDL)	Engineering support to develop Engineering development Lab (EDL) to support human spaceflight program

**Recent Awards:**

- 2021 NGC SLS Booster achievement award
- 2020 Northrop Grumman outstanding supplier award



## **General Information**

Apogee Systems is a veteran owned small business incorporated in the State of Florida and located on the Space Coast of Florida.

### **Mailing Address:**

Apogee Systems, Inc  
PO Box 822  
Cape Canaveral, Florida 32920

### **Facilities, equipment and tools:**

Apogee Systems, Inc. has the facilities and tools needed to perform the required task.

SW tools consist of MS office software including project and visio. Analysis tools include Model Based Systems Engineering (MBSE) Cameo, MathLab and Relyence reliability modeling, RPA and REDTOP propulsion analysis software.

3D CAE/CAD using Solidworks, and Autocad.

Additive Manufacturing, 3D printing using ABS plastic.

### **Personnel:**

All personnel at Apogee Systems, Inc. are US citizens and pass background checks. Personnel are able to access ITAR related material and briefed in the handling procedures.

Clearances of personnel available by request.



## **Business Organization**

**Registered Company Name:** Apogee Systems, Inc.

**Year Incorporated:** 2010

**State of Incorporation:** Florida

**Corporation Type:** Subchapter S

**D-U-N-S Number:** 962424375

**CAGE Code:** 61EX7

## **North American Industry Classification System (NAICS)**

541330 – Engineering Services

541715 – Research and Development in the Physical, Engineering, and Life Sciences

541512 – Computer Systems Design Services

336419 – Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

## **Contact Information**

Steve Merritt - President & CTO

Voice: (321) 652-3998

Email: [stevemerritt@apogeessystemsinc.com](mailto:stevemerritt@apogeessystemsinc.com)

Web: [www.apogeessystemsinc.com](http://www.apogeessystemsinc.com)