

**Chelton Avionics, Inc. dba Cobham Aerospace Communications**

**Engineering Services Offering**

**(Per GSA Special Item Numbers (SIN))**

**SIN 871-1 Strategic Planning for Technology Programs/Activities**

Systems Approach Definition

Systems Architecture Definition

Requirements Development, Definition and Analysis

Conduct of System Trade Studies

Program Goals and Objectives and Technical Performance Definition

Development of Use Cases/CONOPS (Concept of Operations)

Project/Program Management

**SIN 871-2 Concept Development and Requirements Analysis**

Feasibility/Conceptual Design Studies

Functional Concept/Trades Studies (e.g., Electrical, Mechanical, Software, Firmware, Test, etc.)

Cost-performance Trade Studies

Technical Feasibility Analyses

Regulatory Compliance (e.g., FAA, FCC, IC, etc.)

Technological Concept Design

System Interface Control Design and Documentation (ICDs)

Project/Program Management

**SIN 871-3 System Design, Engineering and Integration**

Detailed Design Studies and Analysis  
Detailed Specification Preparation  
Detailed Design Development  
Configuration Management and Document Control  
Prototype Fabrication  
Assembly and Simulation  
Modeling  
Supplier/Subcontractor Oversight and Management  
Project/Program Management

**SIN 871-4      Test and Evaluation**

Prototype, Red Label and Qualification Hardware Build and Test  
First Article inspection  
Test Performance Simulation and Modeling  
System Safety Assessment  
Subcontractor Test Oversight and Management  
Formal System Hardware/Software/Firmware Integration and Testing  
Analysis of Test Results  
Project/Program Management

**SIN 871-5      Integrated Logistics Support**

Feasibility Analysis

Logistics Planning

Requirements Determination for Logistics

Long-term Reliability/Maintainability Requirements/Predictions

Onsite Customer Installation and Operation Support

Training Support

Project/Program Management

**SIN871-6      Acquisition and Life Cycle Management**

Product Operation and Maintenance

Conduct Technology Transfer/Insertion

Technical Assessment of Customer Change Requests

Project/Program Management