

**aeros**  
**Capabilities Statement**

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**Aeros Capabilities****Engineering:**

Aeros is able to provide our customers with specialized technical and engineering expertise to supplement their staff resources or expand their capabilities. We support every phase of the engineering lifecycle – from design and development to testing, simulation and implementation.

Our expertly crafted solutions are sustainable and supportable. Combining the expertise of our analysts, designers, cognitive experts, technical pros and engineers, we can help clients meet their broad business goals. At Aeros our engineering talent covers a broad scope encompassing mechanical design, electrical systems/circuits design, analysis and aerodynamic loads analysis and reporting.

**Integration Capabilities:**

Aeros thrives on solving the most challenging technical problems facing our customers and has a successful track record of delivering mission-critical systems. System of systems work has included ISR payloads (EO/IR and Radar), interoperable software, and complete ground control systems (GCS) development, integration and testing.

**Testing and Evaluation:**

Project testing, documentation and evaluation can be accomplished by Aeros engineers with support from technical and quality control staff. Developing test plan procedures for mechanical, electrical or full integrated products can be done with accredited documentation to support the process. Test procedures can accommodate MIL and/ or ASTM standards.

**FAA STC, Testing and Reporting**

For projects that are applicable to aviation and demand certification by the Federal Aviation Administration (FAA), Aeros has full credentials to engineer, document and submit documentation to the FAA. Aeros maintains an in house designated engineering representative (DER) as well as a FAA designated manufacturing inspection representative (DIMR). Experience in this field covers all performance from full aircraft certification to supplemental type certifications (STC) and field approvals.

**Mechanical Manufacture and Assembly:**

Aeros machining and mechanical assembly shop covers an area of 30,000 ft<sup>2</sup> that is controlled by the production manager and overseen by the Quality Control Department. Machinery includes a fully equipped machine shop with qualified machinists to operate the metal lathes – CNC milling machines – boring machines – and all that is necessary to manufacture precision parts to demanding tolerances.

**Fabric Technology and Soft Goods Production:**

Aeros has a fabric development department with the knowledge and expertise to modify and design fabrics for specialized applications and utilizing an array of fibers from the ordinary to the exotic. Aeros softgoods production facility includes: Automated plotting and cutting machines, Aeros proprietary programmable heat sealing machines, experienced, trained personnel and quality inspectors to ensure the integrity of each step.

**Aeros Standard Products**

**Piloted FAA Certified Airships – Aeros 40B and Aeros 40D Sky Dragon Airships  
Tethered Aerostat Systems – Aeros 200, Aeros 21M, Aeros 1170 and Aeros 3200  
systems**

**Aeros Mobile Lightweight Tower Systems**

**Aeroscraft – Heavy lift variable buoyancy aircraft**