

ESAero - Subject Matter Experts in Hybrid and Electric Propulsion

Providing the industry with comprehensive design, qualification, certification, manufacturing and test resources.



AIRCRAFT ELECTRIFIED PROPULSION

Since 2003, ESAero has served the needs of the engineering industry through its work on entrepreneurial concept development, aircraft modifications, military and commercial conceptual air vehicle designs, sub-scale technology demonstrators, hybrid propulsion system research and development, and niche engineering support.

Aircraft Electrified Propulsion Capabilities

- **Pathway to Certification Support and Testing**
- **Propulsion System Dynamometer Testing**
- **“Clean Sheet” Electrified Aircraft Design**
- **In-house Design, Analysis, and Simulation Tools**
- **Electric and Hybrid Prognostics and Health Monitoring**
- **Battery Pack Design and Testing**
- **Electric Motor Testing**
- **Control Systems**

ESAero Key Project

NASA X-57 Maxwell

The X-plane is powered by an ESAero custom designed electric propulsion system. Built on a modified Italian Tecnam P2006T, the approach offers the advantage of comparing electric propulsion performance against baseline combustion-engine data on the same model aircraft.

For more information visit www.esaero.com.

Manufacturing Footprint

20,000 sq. ft. “Lean”
Manufacturing Workspace

AS9100 Rev D/ISO9001 2015
Certified

Flexible Work Cells

ESD Controls

Full Range Dynamic Testing up to
200 KW for Propulsion Subsystems

Qualified Trainers & Operators
(IPC610/620 and J STD-001)

Additional Services

Rapid Prototyping

Design for Manufacturing

Cost Reduction

Engineering Drawings (Solid Works)

Visual Work Instructions

B.O.M. Creation

Engineering Change Control

Supplier/Sub-Contractor Manage-
ment

Inventory Management

Quality Assurance

