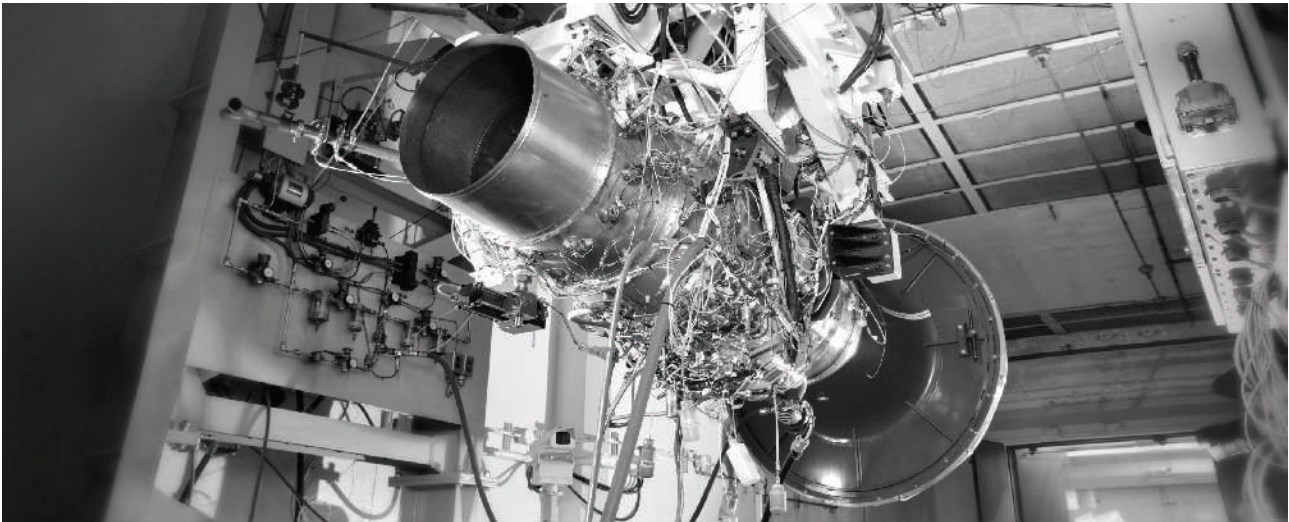


Testing & Integration Capabilities

India | USA | Italy | Japan | UK | Germany | France | Spain



The aerospace industry is interestingly poised in terms of nature of business, industry policies and also with challenges like supply chain management, fluctuating fuel costs and a recent decline in demand. Aerospace companies are increasingly realizing the need to build a growth oriented business by leveraging on innovative solutions from their global partner ecosystem while delivering both improved performance and reduced cost structures. This need has resulted in many aerospace companies to evaluate their engineering and manufacturing partner base.

QuEST Global has proven its expertise in these areas and exceeded expectations. In a nutshell, it helps customers improve quality of supply, reduce time-to-market, grow capacity, increase revenue generation, reduce cost of product development and enhance sustenance engineering. Furthermore, its ability to combine engineering services with manufacturing enables customers to meet the growing offset requirements in aerospace contracts and risk sharing partnerships.

QuEST Global engages in turn key projects on design and build activities which involves development of various test rig applications to accomplish and validate Endurance Life Cycle and Free Fall Test. The support involves arriving at a design right from clean sheet approach.

Testing and Integration capabilities

- Concept design
- Interfacing activities
- Design validation
- Manufacturing
- Commissioning at the customer place

Aerospace programs supported (partial list)

Commercial programs

- A 320
- A 340
- A 350
- A 380
- A 380F
- B 757
- B 767
- B 777
- B 787
- Beech 400
- Falcon 2000
- Hawker 4000

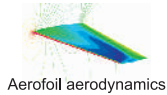
Defense programs

- A400M
- F-22
- F-35
- HPT-32
- JSF
- J-UCAS
- LCA

Certifications

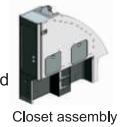
- AS 9100
- EADS E2S Preferred Supplier for Engineering Services
- Airbus Supplier Certification
- ISO 27001
- ISO 9001:2000

Key product services



Flight dynamics analysis
Flight physics
Development of materials & processes

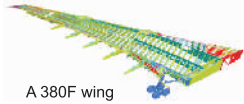
Technical documentation and illustration
Upgrade services- Cabin and cargo
Engineering services for customers including ground support equipment and tooling solutions



Closet assembly

Research & Technology

Cabin Interiors



A 380F wing

Structural design and analysis of components and assemblies
Primary and secondary structures

Structures

Testing & Integration

Systems & Accessories



Landing gear

Design and installation of mechanical, electrical and avionic systems

Case brief - Test rig design, development and fabrication of aerospace accessories

Customer

One of the largest Europe based aerospace equipment company with its business spread across Europe and North America

Objectives

- Design, development and supply of test rig for an electro-mechanical actuator, which operates aircraft control surface

Tasks executed

- Design of:
 - Mechanical structure to simulate the aero dynamic load on the actuator
 - Hydraulic system for loading & dampening of actuator
 - Control system for proper sequence of activities
 - Instrumentation & data acquisition system for appropriate loading and unloading of the actuator
 - Electrical system

- Preparation of manufacturing detail drawings, electrical wiring drawings, selection and documentation of appropriate Bought Out Items (BOI)
- Vendor identification & qualification
- Manufacturing & supply of test rig
- CE certification for the rig
- Commissioning & testing of the rig at site

Value

- Significant cost savings
- Reduced time to market

Benefits to customer

- Single source for design-to-build activities
- On-site and off-shore maintenance support
- Availability of a flexible team to take up development activities

About QuEST Global

QuEST Global is a leading provider of outsourced engineering services and manufacturing. The company helps customers in the Aerospace, Consumer Electronics, Healthcare, Industrial Products, Marine, Nuclear, Oil & Gas, Power Generation and Transportation verticals, to cut product development costs, shorten lead times, extend capacity, and maximize engineering resources. We do this by providing support across the complete product life cycle from design and modeling through analysis, prototyping, automation, data documentation, instrumentation and controls, embedded systems development, manufacturing support, vendor management, and in-house precision machining.



USA

Cincinnati : +1 513 563 8855
East Hartford : +1 860 290 1145
Schenectady : +1 518 370 3657
Greenville : +1 864 254 6081
Houston : +1 518 878 5447
Phoenix : +1 602 242 1971

Europe

Florence : +39 55 437 7149
Bristol : +44 1179 044530
Hamburg : +49 40 500 971 980
Munich : +49 89 108039
Paris : +33 681 938 641
Toulouse : +33 634 260 965
Madrid : +34 679 654 537

Japan

Yokohama : + 81 45 342 8744

India

Bangalore : +91 80 4119 0900
Belgaum : +91 831 4201 000

E: info@quest-global.com

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www.quest-global.com