QUEST
BORN TO ENGINEER

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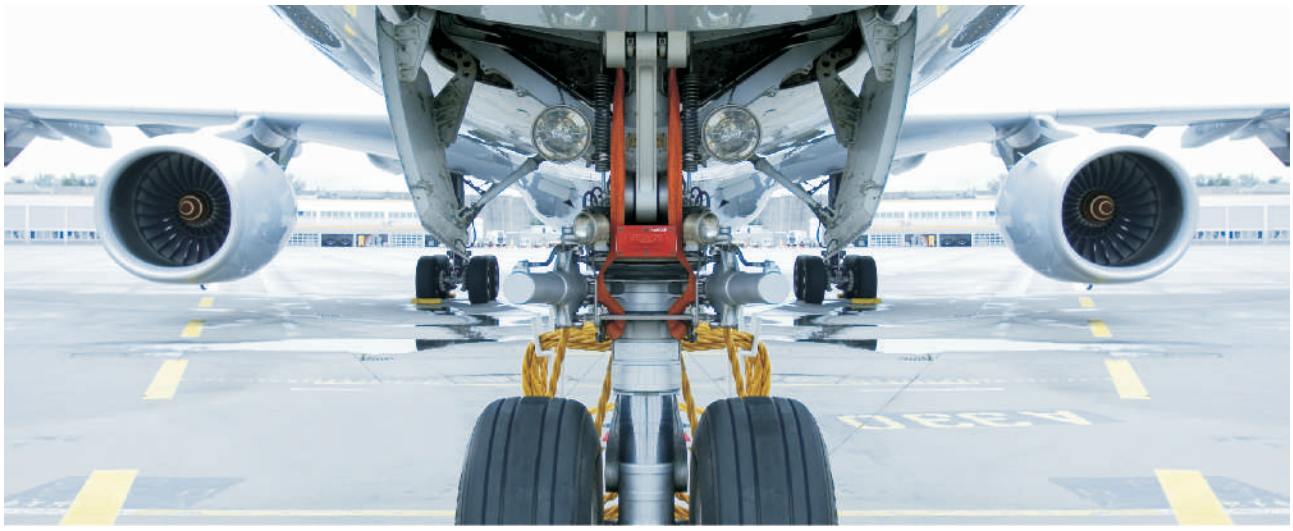
Systems & Accessories Capabilities

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 specializes in various aspects of systems engineering tailored to fit the need of our customers. Our support capabilities include mechanical, electrical & avionics systems on various activities like design support, stress validation & cost reduction.

System capabilities include

- Landing gear systems
- Thrust reverser systems
- High lift systems
- Avionics systems

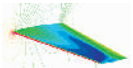
Aerospace programs supported (partial list)

Commercial programs	Defense programs
A 320	A400M
A 340	F-22
A 350	F-35
A 380	HPT-32
A 380F	JSF
B 757	J-UCAS
B 767	LCA
B 777	
B 787	
Beech 400	
Falcon 2000	
Hawker 4000	

Certifications

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

Key product services



Aerofoil aerodynamics

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

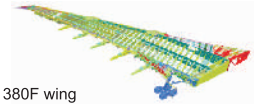
Research & Technology

Cabin Interiors

Structures

Systems & Accessories

Testing & Integration



A 380F wing

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

Automated test bench

Flight test instrumentation
Safety assessments support
Independent verification and validation testing
Design and build of automated testing equipment

Case brief - Design support activities on high lift system

Customer

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

Product

- High lift system for major OEM

Projects worked upon

- Part redesign for cost reduction
- Static analysis of parts & subsystems
- Vibratory fatigue analysis
- System level dynamic performance analysis
- FE analysis support for design iterations
- Certification analysis of systems
- Reliability analysis

Software tools

- CATIA V5
- MSC- NASTRAN
- MSC- FATIGUE
- ADAMS
- ANSYS
- MathCAD

Customer inputs

- Design reports
- CAD models
- Procedures and methodologies

Challenges

- Adhering to customer's quality standards and procedures in a short span

Benefits

- Detailed assembly and sub assembly drawings inline with customers manufacturing requirements was to be delivered
- Had to understand the details of the system from scratch in a short time

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.

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