It’s no secret that the aero engine industry is currently experiencing unprecedented levels of demand and overall growth. At the same time, changing dynamics present many new challenges that aero engine companies must carefully navigate in order to reap the related benefits.

Ultimately, their success depends on engineering. Or more specifically, whether or not aero engine companies can find and deploy top engineering talent, in the right model, to support the full range of business services and offerings they must now provide.

It may seem daunting, but QuEST Global is well equipped and ready to help with comprehensive aero engine engineering services on a global scale.

**INDUSTRY CHALLENGES**

**An Evolving Industry**
A changing market is forcing manufacturers to focus on core strengths and deliver new innovations.

**Increased Demand**
Current demand for new engines and aircraft is four times higher than existing inventory levels.

**New Pressures**
Market dynamics put new pressures on aero engine manufacturers to deliver—and deliver flawlessly in every phase of the product lifecycle.
Expertise Where it Matters Most

Now there is an effective way to find and deploy the right engineering talent: QuEST outsourced engineering solutions for the aero engine industry.

With more than two decades of experience in aero engineering, we deliver proven, powerful solutions on a global scale to support every line of business and integrate every phase of the product lifecycle—from product conceptualization to engine maintenance and support and everything in between.

LOCAL & GLOBAL SUPPORT
We have a global staff with local nationals invested in building long-term relationships, functioning as an extension of your team.

FLEXIBLE & TAILORED SOLUTIONS
Our unique hybrid managed services model allows us to tailor solutions to custom-fit each customer’s individual needs.
Comprehensive Engineering Services, Complete Business Results

Strategic engineering outsourcing can enable the entire organization to deliver the full range of services customers now demand. QuEST Global has built a highly capable team of expert engineers with proven experience in all phases of the aero engine industry.
AFTERMARKET SERVICES
Complete aftermarket solutions, and more—everything you need to extend product life and reduce operating costs.

ENGINEERING ANALYSIS
Analyze issues, interpret results, and develop the right approach to deliver the fastest, most effective engineering solution.

ENGINEERING PROCESS SERVICES
Improve engineering process efficiency across the entire product lifecycle.

SUPPLY CHAIN MANAGEMENT
Make sure your supply chains operate as efficiently and cost-effectively as possible.

MANUFACTURING ENGINEERING
Effectively bridge design and production, and achieve significant new business results.
Proven Success

QuEST has a track record of success providing outsourced engineering solutions that pay off where they matter most—productivity improvements, process efficiencies, and bottom-line cost savings.
CASE STUDY #1

Manufacturing Engineering: **Productivity Improvements Lead to 60% Cost Savings**

QuEST helped a leading aero engine manufacturer improve processes related to turbine blade machining.

The QuEST team conducted a thorough analysis of the process in place and designed a new concept and approach to significantly improve the surface finish and reduce set-up time. The comprehensive project was completed by a team of on-site and offshore QuEST engineers and included developing concepts, creating prototypes, designing the new fixture, selecting new suppliers, and more.

This partnership clearly paid off. Not only were surface defects completely eliminated, but the new process also reduced set-up times by more than 300 percent and delivered 60 percent cost savings.

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**PROVEN RESULTS**

- **COMpletely Eliminated Surface Defects**
- **Reduced Set-Up Times by More Than 300%**
- **Delivered a Cost Savings of 60%**

CASE STUDY #2

Aftermarket Services: **Reducing Lifecycle Costs**

QuEST partnered with a leading civil engine manufacturer to achieve recurring cost savings per engine, per visit.

QuEST’s aftermarket services team analyzed the data and existing processes and developed a new conceptual approach to reduce costs related to maintaining and repairing in-service components. The team identified opportunities to decrease scrap drivers and module exposure, relax existing acceptance limits, and reduce work-scope creep that inevitably surfaced during shop visits.

As a result, the aero engine manufacturer was able to achieve cost savings of more than $13M on engine shop visits and $1.5M from quarantined parts. All of this reduced the need for extended module stripping during visits and resulted in changes in engine manuals and the engine management program.

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**PROVEN RESULTS**

- **Saved More Than $13 Million on Engine Shop Visits**
- **Reduced Quarantined Part Costs by $1.5 Million**
- **Eliminated Work-Scope Creep and Reduced Overall Costs**
Let Us Become Your Engineering Partner of Choice

As a trusted global partner for many of the Fortune 500, QuEST offers two decades of proven value, comprehensive engineering services across the product lifecycle, and an unwavering commitment to helping our clients succeed. Discover the world of possibilities that exists with the right engineering partner. Discover QuEST today.

The QuEST Difference

QuEST is the only engineering services and solutions partner that possesses comprehensive manufacturing expertise, fluency in enabling technologies, and an in-depth understanding of its customers and their businesses. QuEST enables companies in industries such as aerospace, energy, healthcare, technology, and transportation to conquer challenges and seize opportunities to increase profitability and transform markets with products and services that enhance quality, improve efficiency, and reduce costs.

ACCOUNTABLE
We commit to what we deliver, and deliver what we commit. We are quality-conscious, process-oriented and strive for continuous improvement.

COLLABORATORS
Our team collaborates across geographies, organizations and cultures to do more for you.

CHANGE CHAMPIONS
We are change champions, not observers. We believe that every change is an opportunity to learn, contribute and improve.

FOCUSED ON YOU
We are passionate about exceeding your expectations at all times and in everything we do.

The Future of Engineering Starts Now

To learn more about QuEST, and how our engineering solutions are helping aero engine manufacturers achieve significant business results, contact salesenquiries@quest-global.com or visit quest-global.com

QuEST Global is a trusted engineering services and solutions partner to many of the world’s most recognized Fortune 500 brands in aerospace and defense, medical device, power, and transportation. For more than 20 years, QuEST has been a trusted partner providing comprehensive support across the complete engineering lifecycle to help our customers improve efficiency, increase quality, create new products, and open new markets. Through a collaborative and customized approach, QuEST enables its customers to manage traditional engineering requirements as well as the convergence of digital and mechanical technology to help them create safe, dependable, and high-quality products and services.