The automotive industry is going through unprecedented change today. To keep pace, manufacturers must develop new innovations to meet consumers’ changing expectations, comply with industry trends and regulations, and provide the latest technology. Outsourcing automotive engineering services to QuEST Global is the best way to achieve all of these goals and more.
Keep pace with changing market conditions

The automotive industry today is going through a significant revolution, driven in part by changing consumer expectations. Cars and trucks are now radically different from what they were just a few short years ago. For example, where consumers once purchased vehicles based on engine size, horsepower, or gas efficiency, they now focus on the digital experience and user interface, including touchscreens, voice recognition, seamless connectivity, intelligent safety features, and more.

At the same time, additional market conditions and larger trends are also influencing the industry. The recent interest in electric cars and autonomous vehicles have created the need for entirely new powertrains and advanced sensor systems, virtually overnight. Strict environmental and safety regulations now require automotive companies to rethink traditional engineering approaches and could present new operating risks.

In addition, OEMs are facing increasing pressure to reduce engineering design and development (ED&D) costs through digital engineering initiatives that reduce high-cost physical validation by replacing it with virtual validation.

Facing so much change – as well as new business models and opportunities – many manufacturers are now choosing to outsource critical engineering services to QuEST Global.

The roadmap to success

Making the strategic decision to outsource engineering services to QuEST makes business sense. According to PricewaterhouseCoopers, automotive manufacturers now need to offload more development work to outside technology suppliers, especially those that have expertise designing and producing digital components and software.

This new paradigm exists because of how difficult – and expensive – it is to find engineering teams today. The industry is now facing its highest demand for engineering talent, especially related to software engineering and the development of new technologies. In fact, the greater Detroit area consistently has open job positions for software engineers that rival even Silicon Valley.

Outsourcing enables automotive manufacturers to offload non-core engineering activities, but it’s still important to pick the right partner and model. For example, QuEST’s engineering teams operate as seamless extensions of the OEM’s own team, yet the manufacturer still retains all proprietary intellectual property, a significant edge in today’s competitive market.

Experience where it matters most

Only QuEST can deliver expert engineering teams with the right experience to help automotive companies overcome new challenges and take advantage of new opportunities. We can help where it’s needed most: whether it’s new product design/refresh, embedded software development and validation, cost-reduction engineering, and so much more.

We help design and develop vehicles consumers will love, while reducing costs, improving processes, and contributing to better business practices.

These engineering solutions provide a true win-win for today’s automotive manufacturers. We help design and develop vehicles consumers will love, while reducing costs, improving processes, and contributing to better business practices. For example, QuEST helps develop award-winning human machine interface (HMI) technology and infotainment systems, while leveraging industry knowledge to enable the customer to achieve virtual design and validation much more quickly.
A proven partner delivering proven results

What makes QuEST different? The fact that we bring a long-term, strategic partnership approach to each and every client engagement.

We begin each project with a comprehensive assessment to determine the client’s business goals, priorities, and potential obstacles. A team of QuEST technical solutions and engagement leaders then provide specific recommendations for what engineering roles, activities, and projects can be outsourced. We also show how customers will achieve maximum value using the right mix of on-site engineers as well as 24/7 support from our global network of expert engineers.

This proven approach – the result of hundreds of client engagements – gives our clients the right mix of “boots-on-the-ground” engineers in addition to the cost savings and productivity advantages of a global outsourcing model. And to make sure we’re delivering the right results, we constantly – and proactively – fine-tune our teams and overall approach.

Everything we do is designed to help our customers design and develop the next generation of innovative, successful vehicles, all while increasing productivity, reducing costs, and improving processes.

SNAPSHOT OF SUCCESS

A leading automotive manufacturer needed a strategic partner to help provide engineering services for its embedded software instrumentation technology.

QuEST had extensive experience designing and developing software products in the automotive industry and quickly developed an innovative digital instrument cluster that exceeded all expectations.

The manufacturer was able to bring next-generation systems to market ahead of schedule – and the competition.

Bumper-to-bumper engineering services

Only QuEST can deliver proven, end-to-end solutions to help our customers in all phases of development – from concept to production.

Electronics and embedded software

We provide electronics and software services that span application development, vehicle network protocols stacks, device drivers, and more.

Exteriors

We design and develop front and rear ends, bumper systems, paneling, trim, and grills to meet stringent requirements for pedestrian protection and crash safety.

Interiors

If it’s inside the vehicle, QuEST has experience designing it. We develop everything from individual components to holistic interiors, including cockpits and center consoles, roof linings, door and side paneling, and more.

Infotainment

QuEST helps develop innovative, award-winning infotainment systems and human machine interface (HMI) displays to meet new consumer expectations.

Powertrain and chassis

We engineer the future of driving with innovative products and systems such as hybrid drives, range extenders, fuel cells, and other new technologies.

Virtual validation

We develop advanced computer-aided engineering (CAE) methodologies, architect test automation frameworks, and simulate various test case scenarios to virtually validate mechanical and software and hardware system designs. All of this helps reduce costs and dependency on physical testing.
Partner with QuEST

Outsourcing engineering services is now an effective strategy in the automotive industry. Not only can this help automotive manufacturers improve the design and development of the next generation of cars and trucks, but they can keep costs low and meet aggressive delivery deadlines on time.

As a trusted global partner for many of the Fortune 500 and today’s top auto manufacturers, QuEST has two decades of experience delivering comprehensive automotive engineering services and an unwavering commitment to helping our clients succeed. Discover the world of possibilities that exists with the right engineering partner. Discover QuEST today.

Accountability

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

Change championship

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

Teamwork

Collaboration is our strength. Our team works across geographies, organizations and cultures to do more for you.

Customer focus

We strive to exceed expectations at all times and in all we do. We are passionate about serving you, our customer.

NEXT STEPS

To learn how QuEST Global transformative engineering solutions can help you succeed, contact:

salesenquiries@quest-global.com

QuEST Global provides advanced engineering solutions to industry leaders in aero engines, aerospace and defense, high technology, medical device, oil and gas, power generation and transportation. With a workforce of 8,500 engineers worldwide, QuEST provides innovative product development and production engineering services that combine capabilities, capacity and cost to meet the unique needs of each customer. QuEST is a strategic partner that proactively applies domain expertise at every phase of the manufacturing lifecycle, from concept to commercialisation, enabling its customers to increase profitability and transform markets.

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