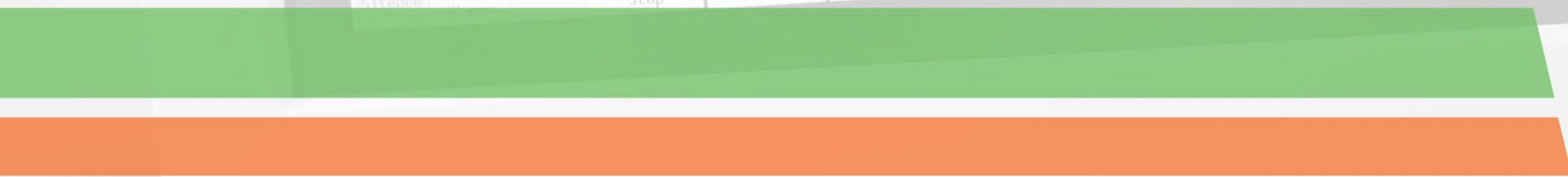


# Secure and Connected New-Age Monitoring Devices

QuEST Global - Monitoring Devices Expertise





Monitoring devices industry is growing at an unprecedented pace with the R&D investments poised to touch \$3.5 BN by 2021. Such rapid growth and rising demand for remote patient monitoring are driving the big need for a secured and connected care ecosystem. However, making the monitoring devices interoperable and securing them against the persistent hackers are major challenges. Additionally, regulatory hurdles are resulting in slower pace of innovation, increased development cost and longer time-to-market.

QuEST enables monitoring device OEMs to engineer holistic products that are fully interoperable, secure and compliant with changing regulations.

QuEST has demonstrated expertise in the following areas:

# Secure and Connected New-Age Monitoring Devices

Interoperability platform for monitoring devices

Connectivity services

Regulatory & compliance support



## Services



The platform integrates Monitoring Devices with patient record systems, such as Personal Health Devices (PHDs), Hospital Information Systems (HIS) & Electronic Medical Records (EMRs). It provides an interface to analyze data to offer personalized healthcare and consultation services.

## Interoperability Platform for Monitoring Devices

### Key Features:



Standards framework -  
ISO/IEEE 11073  
devices



Frameworks that  
support connectivity  
and telemedicine



IEC 80001-1 compliant



Analytics platform for user  
base including personal, social  
and enterprise usage



Supports integration with  
servers, cloud applications,  
drivers and other software  
applications



System integration  
eco-system

- Data from wearables and home-care devices to PHDs
- Data from monitoring and remote patient monitoring devices to EMRs
- EMRs & PHDs with HIS



Demonstrable proof of concept for  
home-care devices and wearables



## Business Need:

1 New product development for emerging markets

2 Deliver right features, such as touch-enabled UI

3 Remote monitoring of parameters from nursing station

4 Ensure faster time-to-market and reduce the cost of ownership

Case Study:  
Improved  
Connectivity  
of an Infant  
Incubator  
Monitoring

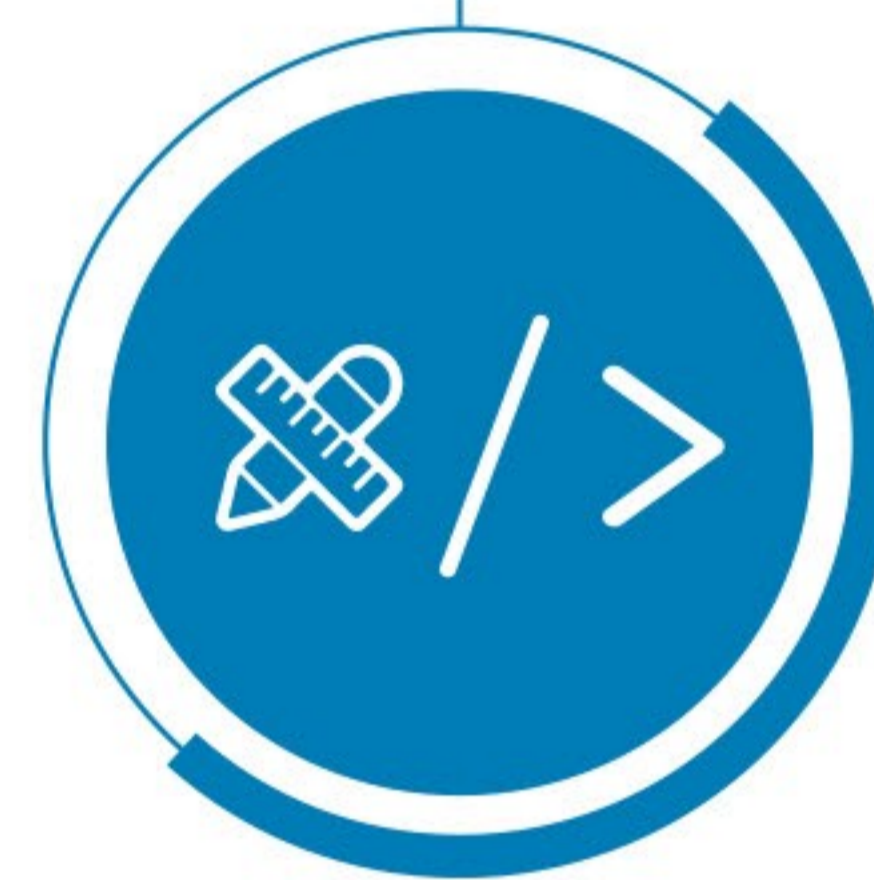
## QuEST Scope:



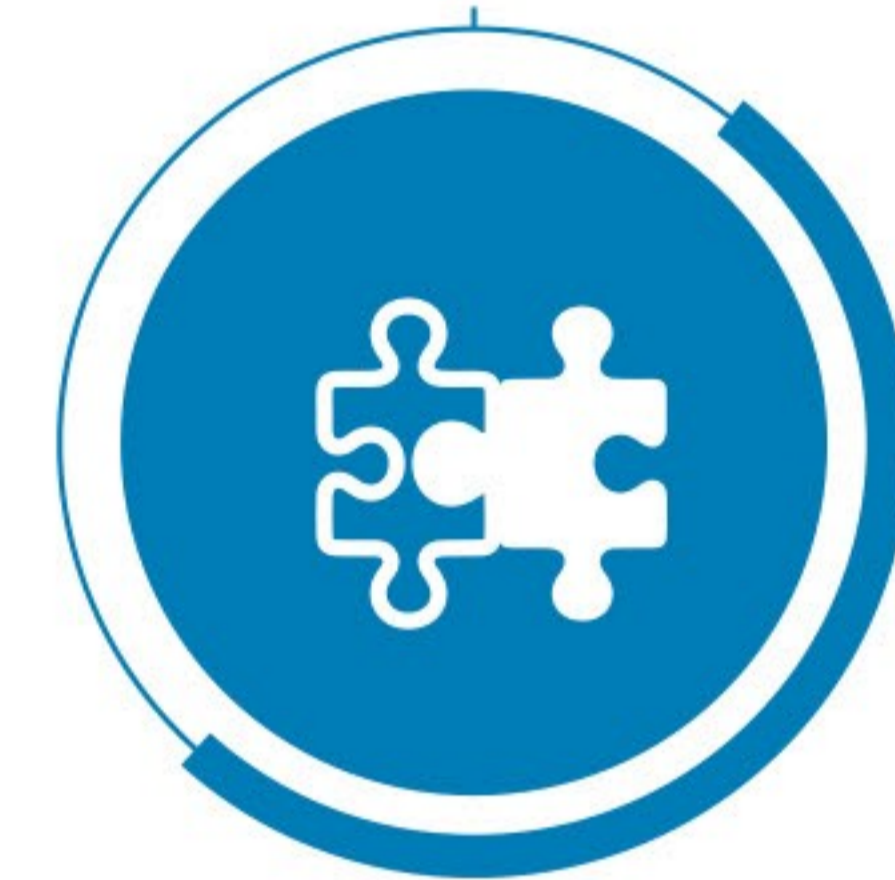
HW & SW platform selection



Evaluation of sensors that measure air temperature, baby temperature, humidity, oxygen levels and weight



UI & applications development for display of live data, alarms and trends



HW and SW integration testing

## Benefits

01

Significant reduction in time-to-market

02

Robust design for demanding environments

03

Improved serviceability by modularization of embedded components

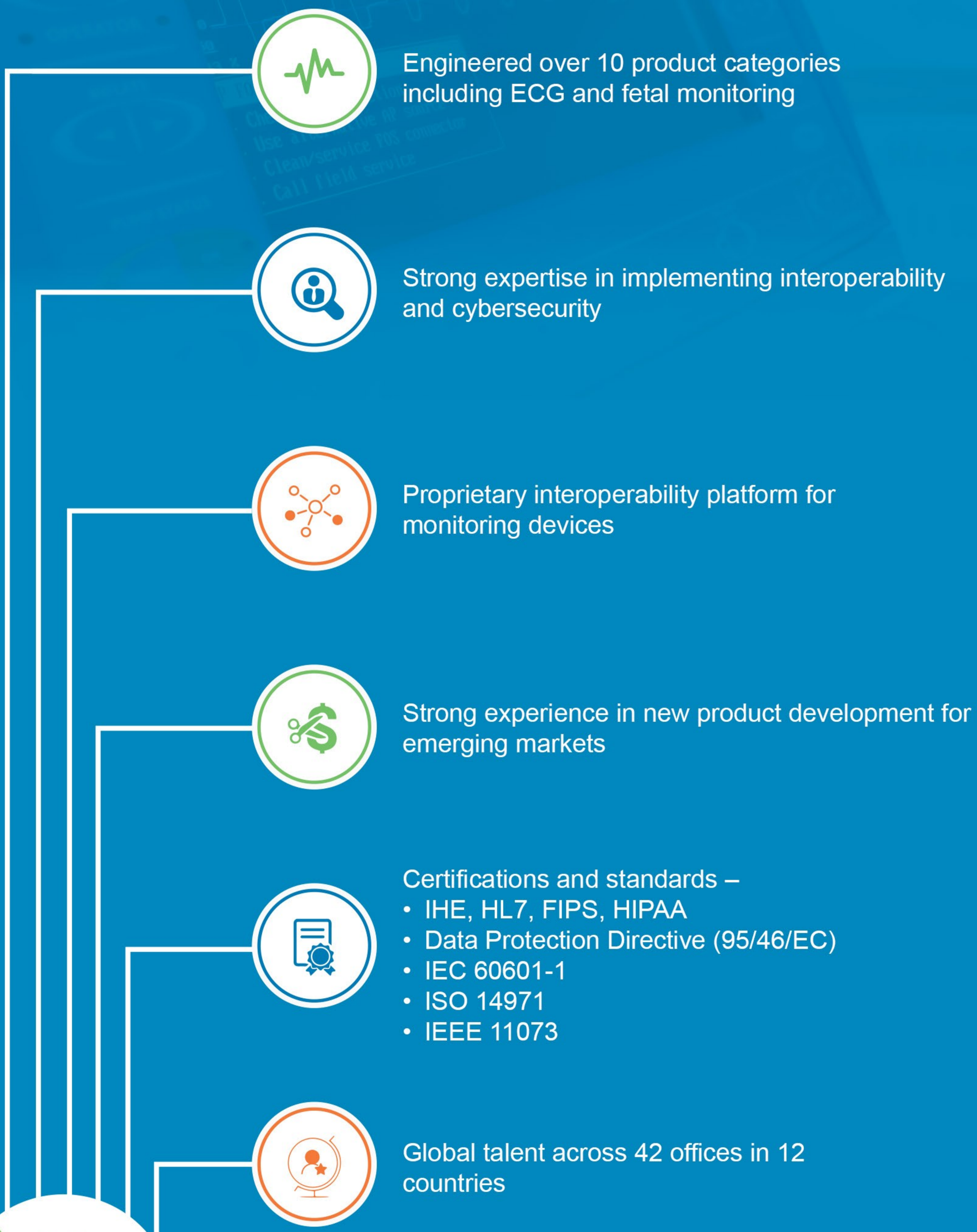
04

Increased connectivity (reduced numbers of nurses in nursing station through remote monitoring)



Gold Partner of GE

Zinnov Zones: Recognized as an industry leader among the Global R&D Service Providers within Medical Devices for 2017

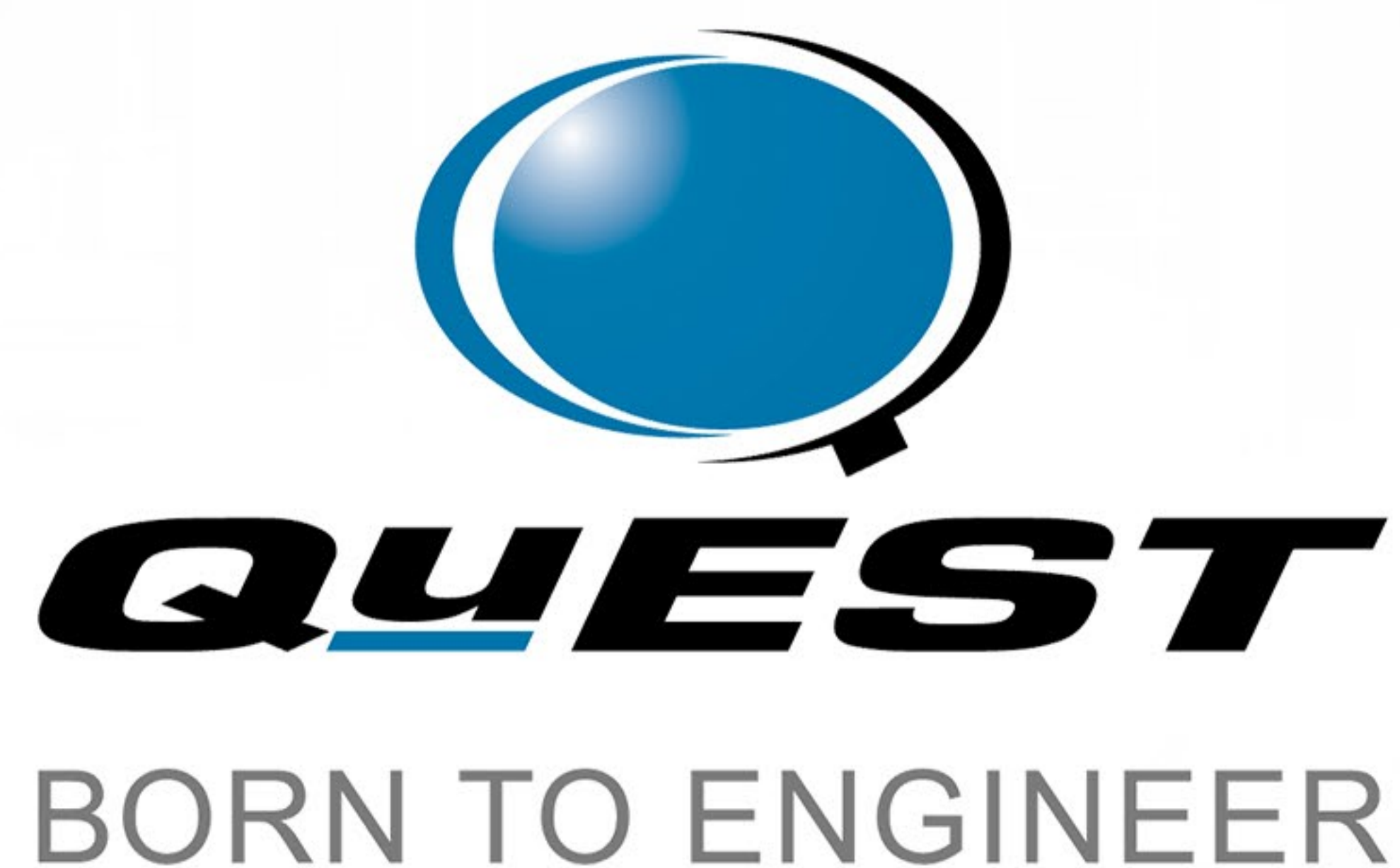


QuEST Differentiators



## About QuEST Global

QuEST Global is a focused global engineering solutions provider with a proven track record of 20 years serving the product development & production engineering needs of high technology companies in the Aero Engines, Aerospace & Defence, Hi-Tech & Industrial, Medical Devices, Oil & Gas, Power, and Transportation industries. The company offers mechanical, electrical, electronics, embedded, engineering software, engineering analytics, manufacturing engineering and supply chain transformative solutions across the complete engineering lifecycle.



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