

Nuclear Capabilities

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



Nuclear Power is emerging as a key source for future energy needs. Fossil fuels are exhaustible and have high levels of emission of greenhouse gases adversely affecting the environment. To achieve socio-economic growth, it is necessary to have a reliable supply of energy at an affordable cost. Thus, to meet the growing energy needs in a sustainable manner worldwide, governments and private organizations are investing in the nuclear power sector. Thus there are many growth opportunities for the global companies that provide technology and services for new and existing nuclear power plants. However, due to a lesser number of people with nuclear engineering skills coming out of graduate schools, and more number of the existing workforce retiring, the need of the hour is a globally trained nuclear engineering workforce.

Who We Are

QuEST Global is a leading provider of diversified engineering services and manufacturing. We help customers in the aerospace, consumer electronics, healthcare, industrial products, marine, nuclear engineering, oil & gas, power generation, and transportation verticals to cut product development costs, shorten lead times, extend capacity and maximize engineering resources availability

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.

QuEST Global is very well positioned to address the needs of the global Nuclear Supplier Group companies that design and build nuclear power plants and provide technology services to asset owners. We have alliances with key OEMs & service suppliers to the Nuclear Industry, as well as affiliations with all the key international nuclear industry organizations, in order to provide better services to our customers.

What We Do

QuEST Global provides engineering solutions in all stages of a new reactor build and also supports in the refurbishment of existing reactors. This chart provides a quick view of the supply chain elements that constitute QuEST Global's focus area.

New Build Stages			
PRE-BUILD (DESIGN)	CONSTRUCTION	OPERATION	DECOMMISSIONING
	Supply Chain Element		
Planning & Licensing	Project Management	Operation & Site Management	Planning & Licensing Decommissioning
Infrastructure Legal & Financial Services	Building & Construction	Nuclear Fuel Supply	
Nuclear Consultancy Services	Plant & Equipment	Engineering/Technical Services	
Engineering & Design Services	On-site Erection / Fabrication	Waste Management & Disposal	
	Nuclear Fuel Supply	Refurbishment	
	Commissioning		

Our offerings

Our offerings for the Global Nuclear Suppliers range from design to manufacturing. Our capability to execute export controlled work, our impeccable respect for IP, high end technical capabilities and

our frugal and innovative mindset differentiate us from the rest of the players. The below chart highlights some of our technical capabilities.

PRE-BUILD (DESIGN)	Design & Simulation	Operation & Maintenance
<ul style="list-style-type: none"> • Planning & Licensing Support • Conceptual Process Design • Process Simulation / Process Flow Diagram / Material and Energy Balance • Development of P&IDs • Preliminary Equipment / Instrument Sizing • Development of Preliminary SAFE Charts • Design Calculations 	<ul style="list-style-type: none"> • 3D Modeling & Detailing • CFD Analysis • Design Optimization • Static & Structural Analysis • Thermal & Vibration Analysis • Advanced Heat Transfer and Fluid Systems 	<ul style="list-style-type: none"> • Installation & Setup Guides • Illustrated Parts Catalog (IPC) • Maintenance Manuals • Operating Instructions • Repair Manuals

Areas of Expertise		
<ul style="list-style-type: none"> • Steam Generators • Heat Exchangers • Pressure Pipe Work • Pumps & Valves 	<ul style="list-style-type: none"> • Project Management • Balance of Plant – Plant & Equipment Design 	<ul style="list-style-type: none"> • Turbine Island <ul style="list-style-type: none"> - Steam turbines - Generators - Switch Gears - Transformers, etc. - Controls, Electrical & Instrumentation - IT Systems, Software and Solutions

Engagement Models: Staff Augmentation | Project Execution | Dedicated Low Cost Engineering Centers

QuEST Advantages

- 100% focused on engineering services and product development
- Proven offshore processes and methodologies with 12 years of experience
- Strong presence and experience in the power generation equipment and plant design sectors with high end capabilities
- Global workforce trained in nuclear safety codes and standards
- Unique local-global model of working that delivers significant value to the customer
- Passionate, energetic and flexible team that focuses on customer satisfaction
- Flexible business models based on customer requirements
- Proven experience in building global engineering teams
- Capability to execute export-controlled work across the glob

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