

## Instrumentation Design Engineer

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Company: QuEST Global Services Pte. Ltd

Location: India

Category: other-general

Quest Global is an organization at the forefront of innovation and one of the world's fastest growing engineering services firms with deep domain knowledge and recognized expertise in the top OEMs across seven industries. We are a twenty-five-year-old company on a journey to becoming a centenary one, driven by aspiration, hunger and humility.

We are looking for humble geniuses, who believe that engineering has the potential to make the impossible, possible; innovators, who are not only inspired by technology and innovation, but also perpetually driven to design, develop, and test as a trusted partner for Fortune 500 customers.

As a team of remarkably diverse engineers, we recognize that what we are really engineering is a brighter future for us all. If you want to contribute to meaningful work and be part of an organization that truly believes when you win, we all win, and when you fail, we all learn, then we're eager to hear from you.

The achievers and courageous challenge-crushers we seek, have the following characteristics and skills:

### **Roles & Responsibilities:**

The E & I Engineer will work with Technical Lead & customer E & I team for the execution of projects within Pipeline/ Industrial/ LNG segments for trains driven by Gas Turbines/ Steam Turbines/ Compressors. He/ she will collaborate with extended Engineering project team and all other customer business functions supporting the project.

An E & I Engineer will be responsible for the Electrical equipment and Instrumentation design

for Gas Turbine, Steam Turbine Driven Compressor and Generator applications, Electric Motors, Reciprocating Compressors and Turboexpanders. He/ She will have the opportunity to introduce new technology to enhance company profitability and productivity. He/ She will be responsible for maintaining and incorporating new cost-effective solutions for designs.

Name Plates and hook-up specifications for Electrical equipment and Instruments.

Designing and tagging the Electrical and Instrumentation arrangements through the application of international standards ( ATEX, CSA, NEC/NEMA, IEC, etc).

Instrument Project design Summary preparation.

Modeling using 3D software for instrumentation loop arrangement based on installation condition.

Designing and SMART instrumentation configuration against susceptibility electric and electromagnetic noise.

Optimizing Electrical installation to standardize solution in collaboration with manufacturing department.

Creation, update & Evaluation of P&IDs as per customer requirement.

Preparation of list of Equipment/ Instruments/ Analyzers/ respective materials & I/O list, wiring diagram, primary and pneumatic hook-ups, ILD's, Cable and tray layouts based on the P&IDs and vendor documents, Panel layouts, Instrument annunciator racks, Electrical hook-ups, Skid instruments, Various Oil Console/ local panel/ Start-stop panel instruments.

On-site Electrical Tracing, Electrical connections, Site engineering support.

Preparation of Equipment/Instruments Specification / Datasheets, Purchase Specification for all type of gauges and transmitters.

Project Scheduling, monitoring, and control, and maintain OTD and Quality of the Engineering documents, timely execution.

Design, Document, report preparation and Certification for (Must possess knowledge and work exposure on) Process Hazard Analysis, Hazardous area classification, Lighting protection system, Fire-fighting system and explosive atmosphere certification list preparation, etc.

Should have Exposure on Control Logic preparation and Operating procedure writing.

Commissioning spares, 2 years operations spare parts, Calibration kit requirement listing.

**Required Skills (Technical Competency):**

3-8 years of Experience in E & I Designing in oil and gas/petrochemical/power sector.

Have proven working Experience in an engineering position for Instrumentation Engineering for Turbomachinery's, Preferable: Gas turbine/ centrifugal compressor/ steam turbine/ Reciprocating Compressor / Turboexpanders.

Be proficient in electrical and instrumentation design and related development tools; knowledge of industry code and standards.

Have well-developed interpersonal and communication skills; able to influence and motivate others.

Be able to work in multi-cultural team and customer review meetings.

Be fluent in spoken and written English.

Effective team building, problem-solving abilities, and leadership skills.

Tools skill: Smart Plant-3D, AutoCAD Electrical, AVEVA instrumentation, EPLAN P8, MS office & Team Center. (will be preferred)

**Desired skills:**

Bachelor's degree in Electrical or Instrumentation Engineering

Experience in an engineering position for Instrumentation Engineering for Turbomachinery's, Preferable: Gas turbine/ centrifugal compressor / steam turbine / Reciprocating Compressor / Turboexpanders.

Work-exposure on Electrical/Instrumentation Safety aspects mentioned above

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