



Job Description - Structural Engineer

Reports to: Project Manager

Responsibilities: Produce structural designs and supporting calculations packages for oilfield related equipment.

Duties:

- Perform engineering design and analysis of drilling systems relating to cranes, BOP handling, pipe handling systems and hoisting systems, this include research and development of new products, as well as existing product improvement
- Analyze project specifications on structural design and carry out detailed analyses using classical 'hand' calculations and using the appropriate structural software (STRUCAD, STAAD). These analyses include stress analysis, beam analysis, static/dynamic analysis and fatigue analysis, FEA etc
- Develop preliminary sketches, layout, assembly and detail drawings using AutoCAD and 3D CAD applications
- Produce design calculations of all structural equipment, load path components, and material selection, including approval of drawings
- Travel to client locations to provide detailed site layout prior to performing detailed engineering design work;

Requirements:

- Structural Engineering degree
- Knowledge of oil field drilling equipment both on and offshore.
- Strong foundation in hand calculations.
- Knowledge of current international industry standards.
- Must have AutoCAD 2D experience (inventor advantageous).
- Good understanding of assembly, welding, and machinery methods.
- Excellent communication skills.
- Ability to thrive in a fast paced team environment
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- Willingness to travel to work sites including offshore vessels.



Oilfield equipment, supplies and services