



Job Description Mechanical Engineer

Reports to:	Project Manager
Responsibilities:	Produce mechanical designs and supporting calculations packages for oilfield related equipment.

Duties:

- Produce design calculations of all mechanical equipment, load path components, and material selection, including approval of drawings
- Prepare engineering packages for submittal to regulatory societies.
- Develop preliminary sketches, layout, assembly and detail drawings using AutoCAD
- Perform Finite Element Analysis using 3D CAD applications (ANSYS or ALGOR).
- Design of oilfield equipment dealing with specialized industrial equipment, preferably related to the oilfield tubular handling design.
- Knowledge of API, ASME, AWS and ASTM standards as they relate to the design, fabrication and testing of products and equipment;
- Using for understanding of drilling and typical rig operations solve problems relating to everyday task on the rig site through automation and mechanization

Requirements:

- Minimum B.S. from an accredited university.
- Knowledge of oil field drilling equipment both on and offshore.
- Analysis experience on oil field equipment utilizing ALGOR FEA or ANSYS.
- 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
- Willingness to travel to work sites including offshore vessels.