

JOB DESCRIPTION

POSITION: Principal Civil/Structural Engineer

LOCATION: LAGOS, NIGERIA

SPECIALIZATION: Onshore/Offshore Designs

JOB OBJECTIVE:

To be part of the Civil/Structural discipline group within the organization, using professional skills to provide solutions to a range of Technical Structural issues to ensure that fit for purpose solutions are achieved for construction and installation. The position requires working closely with Discipline Leads on projects, and to provide coaching and mentoring role (on the job training) to any assigned senior and intermediate engineers within and outside the project team environment. Organize and hold technical sessions for Civil/Structural discipline group during off project periods. It is expected that successful candidate will network with Engineering Discipline Leads and Manager, Engineering.

REQUIRED COMPETENCIES/RESPONSIBILITIES:

- The candidate must have hands on experience in the modeling, analyses and design of Topsides structures in Fixed Platforms and Floating System, viz: FPSO's, FSO's, TLP's, and Marine Terminals
- Candidate must have a good engineering judgment on the structural interaction between hull systems behaviour and topsides structures. This includes application of accelerations and hull sagging/hugging on topsides modules.
- Perform structural engineering analyses (In-place, Lift, Transportation, Load out and Fatigue) and design for topsides structural modules in major projects development from the Conceptual, FEED, and Detail Engineering to Construction stage. Good experience in structural integrity checks, Vibration Effect study and design of secondary outfitting structures (e.g. monorails, padeyes, mudmats, connections, etc.), including boat impact analysis are required.
- Undertake Front end engineering studies as may be required to identify and develop performance improvement changes, and ensure that all proposed modifications allow safe operation of facilities and maintain technical integrity.
- Candidate must have a proper understanding of metocean conditions and how they apply to design of topsides structures.
- Ability to carry out Weight Control compilation, and verification (manually and electronically) of structural calculations to AISC and other relevant codes.
- Candidate will be required to support Technical Bids preparation, design reviews, audits and other structural related reviews. And provide inputs to development of Design Basis.
- Familiarity with Brown field projects is also required.

QUALIFICATIONS/EXPERIENCE/SOFTWARE SKILLS:

- Bachelor's degree (B.Sc./B.Eng./B. Tech. or Equivalent) in Civil/Structural Engineering.
- Possession of Higher qualification in Civil or Structural Engineering will be an added advantage.
- A minimum of **15 years'** experience, which shall include minimum of **10 years** in offshore structural engineering design.
- A good understanding of Industry standards, Codes and current engineering practices.
- The Candidate must have knowledge/skill level in HSSE golden rules and applications within the Oil and Gas Industry.
- Required good working knowledge of the following software: SACS, STAAD Pro, X Steel, etc.
- Candidates within Nigeria must be COREN registered, while applicants from outside Nigeria must belong to professional bodies registerable with COREN.

OTHER SKILLS:

- Knowledge of project controls within discipline.
- Fluency in English Language, spoken and written.
- Ability to work in multi-disciplinary project teams environment.
- Good inter-personal leadership, coaching, communication and presentation skills.
- Experienced in planning, progress monitoring, forecasting and reporting.
- Competent in commercial, contractual and administrative aspects of engineering.
- Experienced in estimating man-hours and materials for most aspects of work.
- Experienced in working with other disciplines and sections to meet delivery dates.
- Highly experienced in quality control requirements and quality assurance for engineering work.
- Competent in leading, supervising and the organization of a small/medium sized single discipline team within a project.