

JOB DESCRIPTION	
SENIOR ENGINEER (STRUCTURAL)	
Education	Experience
Bachelor Degree in Civil / Structural / Naval Architect Engineering. (or Diploma with addl. 7+ years experience)	7+ yrs with Consultants or EPC contractor in Oil and Gas / Petrochemical / Chemical / Power / Infrastructure industry.
Additional Skill Sets	
Good knowledge of structural design techniques and analysis methods, fabrication yard procedures and onshore / offshore equipment. Exposure to statutory requirements and codes applicable to onshore / offshore Oil and Gas industry.	
Reports To	Supervises
Lead Engineer	Engineers / Lead Designer / Designers
Coordinate With	
Other Engineering Disciplines, Document Controller, Project Engineering, Customer Discipline Engineer, Construction and vendors.	
Responsibilities and Authorities	
<p>Familiarize with the scope of work. Monitor changes in scope of work and raises change notification to the Lead Engineer.</p> <p>Prepare / Review of engineering documents like calculations, specifications, philosophies, datasheets and drawings to ensure compliance with specification and functional integrity.</p> <p>Provide technical directions and inputs to drafting personnel.</p> <p>Carry-out single discipline checking of discipline documents / deliverables for the project.</p> <p>Carry-out IDC for other discipline document / deliverables as per the approved IDC matrix.</p> <p>Co-ordinate with other discipline / departments.</p> <p>Attend Project review meetings and project co-ordination meetings in the absence of Lead Engineer.</p> <p>Participate in technical review meetings (like piping 3D model review etc.)</p> <p>Review of Vendor documents.</p> <p>To implement QMS within the discipline.</p> <p>To ensure Quality Control throughout the discipline, works with the Quality Management System and participate in regular quality audits.</p> <p>Follow all applicable procedures and work instructions.</p> <p>Keep continual improvement as a goal and apply Lessons Learnt on the past projects for better performance.</p> <p>Prepare / Review / Approve design analysis, calculations and procedures for discipline deliverables such as:</p> <ul style="list-style-type: none"> - Structural design basis, Material Specification 	

- In place structural analysis (Operating, storm, damage, blast), Transit / Transportation analysis
- Lift engineering / Weighing analysis, Plastic analysis / Dropped object analysis
- Seismic analysis, Pushover analysis, Fatigue analysis (Simplified/ Deterministic/ Spectral)
- Joint and connection designs, Equipment integration/ foundation design
- Design of plant and non-plant buildings.
- Structural analysis by first principles and using tools such as SACS, FEMAP etc.
- Weight Control Report, Structural Analysis Report
- Prepare and provide inputs for the preparation of deliverables / drawings such as Primary/ Secondary MTO , Plating Grating, Handrail, Lifting Configuration drawings, Joint details, Equipment integration drawings, Material handling drawings, deck connection details, under deck strengthening, major piping supports etc.
- Review package / skid vendor drawings for structural interface.