



JOB TITLE	Senior Project Engineer – Subsea Equipment
LOCATION	Aberdeen
EMPLOYMENT	Permanent
REPORTS TO	Operations Director

DESCRIPTION OF FUNCTION

Based in Aberdeen, the Senior Project Engineer role will provide effective Engineering, and Technical Assurance of the product and Services. To assist the Project Manager execute a project to an agreed specification and within an agreed budget and schedule. The projects vary from studies, equipment supply and aftermarket service/supply projects

Key Interfaces –

- External Interfaces: Customers, Subcontractors, Suppliers, Inter departmental.
- Internal Interfaces: Senior Management/ Tendering Team / Project Managers / Project Teams / Engineering & Draughting Department

Working Requirements –

- Office based work
- Site based work, worldwide locations
- Working hours according to local regulations and Company's policy

JOB RESPONSIBILITIES & DUTIES

The Senior Project Engineer shall have technical responsibilities in the execution of projects. On smaller projects they shall have responsibility to deliver the project scope, on larger projects shall contribute to a multi-discipline project team. These projects vary from engineering, procurement, manufacture and test projects, in support of Subsea and topsides onshore/offshore production enhancing based activities.

They shall perform conceptual and detail engineering studies based on the requirements specified by the project, tendering team or directly from the client.

They shall be able to take conceptual design and fully engineer to manufacture level drawings and specifications.

They shall respect the design rules and procedures in force within the Group, Client and industry norm. They shall propose designs which must be economic, safe and in accordance with customer requirements.

They shall be able to document their design/analysis in the form of written reports and be able to present their findings concisely in meetings. They shall be able to efficiently communicate their design concept to Draughting and other personnel to optimize the design and manufacture process.

They shall be/become familiar with Vessel and ROV operations / limitations, to improve design, operational schedule, procedures and safety.

They shall be required to witness and co-ordinate assembly, testing, commissioning, and operation at onshore/offshore locations worldwide.

Time to time they shall be required to lead/work as part of the installation or operations team at onshore/offshore locations worldwide.

They shall be familiar with common project management tools and practices.

Specific Tasks: To perform all design and engineering work related to all existing and future Company product lines –

- Conceptual design, including 3d layouts.
- FEA Analysis.
- Detailed design.
- Create/Check/Approve drawings and technical documents.
- Provide guidance and instruction to Draughting department.
- To support the project teams and tendering teams as required.
- Develop customer contact skills.
- Contribute to IP development.
- Interface Management.
- Project management.
- Progress monitoring and reporting.
- Implement engineering designs in compliance with Health & Safety Legislation.
- Ensure that project and company quality procedures together with business management systems are implemented at all times.
- Ensure that all relevant documentation is produced in compliance with legislation, codes and standards and client requirements.
- Ensure that design documents produced in-house are technically correct clear / understandable.
- Apply sound engineering principles in the preparation of calculations, specifications, reports, schedules, drawings/sketches and resolution of engineering challenges.
- Provide relevant technical information when required for the delivery of design and/or construction.
- Carry out, check calculations, specifications, reports, schedules, drawings/sketches and other documentation.
- Technically review designs produced by design team, for correctness, compliance with all standards, completeness and manufacturability and instigate changes and improvements using relevant document control procedures.
- Provide specifications, bid evaluations and assistance to the procurement system. Effectively deploy, monitor, supervise and guide less experienced engineering staff in support of all the above.
- Participate in & run internal or external project review meetings.
- Internal/External project Document control.
- Upkeep and housekeeping of project files and folders.
- Upkeep and control of internal and external Rolling Action Lists (RALs).
- Assist PM Managing the project schedule, identifying the critical path issues and developing mitigation actions to ensure on-time delivery.
- Participate with Project Risk Management, identification of risks and mitigation plans.

- Assist PM with Project Financial Management, disseminating costs /budgets to internal departments and tracking of these costs to the budget.
- Assist/Stand in for Project Manager as required.
- Assist PM in regular reporting to management and stakeholders.
- Participate when required in departmental improvement projects, highlight areas for improvement.
- Ensure Health & Safety procedures are adhered to at all times, actively promote good HSE practices.
- Mentor less experienced Engineers.
- Ad hoc duties as required.

CAPABILITY PROFILE; KNOWLEDGE, SKILLS AND EXPERIENCE

- Excellent written and verbal communication skills.
- Ability to liaise with multi discipline project teams.
- Adhere to strict deadlines and deliver a high level of accuracy.
- Self-motivator.
- Proficient user of Autocad Inventor, Microsoft excel, word and powerpoint.
- Excellent organisational and housekeeping skills.
- Ability to work in a multi-cultural environment.
- Flexibility and adaptability within role to meet the demands of a changing project and organisational needs.
- Good understanding of project management principles (Further training can be provided).
- Have an understanding of safety regulations and responsibilities together with methods to control and reduce safety related risks.
- Have an excellent understanding on design codes used in the manufacture of Subsea oil and gas related equipment.
- Understand and apply the principles of pressure vessel design.
- Understand and apply the principles of pipework design.
- Understand and apply the principles of heat transfer.
- Understand and apply the principles of FEA.
- Understand the properties of mechanical engineering materials including limitations, alternatives, reasons for selection, the effects of their interaction and the appropriate tests that can be carried out to ensure specification compliance.
- Capable of producing high quality written reports.
- Capable of managing small to medium sized projects.
- Previous Engineering experience (10 years plus) gained within a relevant industry/OEM.
- Possess a good working knowledge of hydraulic and electric controls systems.