

JOB DESCRIPTION

Job Title: Business Stream: Location: Reports to:	Naval Architect (1-5 years) Offshore Energy UK Director, Offshore Engineering
Purpose of Role/Job Summary: To undertake project work and oversee technical performance, including engineering, design and analysis in support of the company's Naval Architecture, and engineering contracts. The job may require work at the Group's other offices, also at client or subcontractor premises and to undertake occasional business trips to offshore vessels or installations and shipyards in the UK and overseas.	
Key Duties and Responsibilities: <ul style="list-style-type: none">• Ability to understand and analyse important project criteria• Calculate and give advice/assistance in assessing vessel performance (motions/stability/strength)• Review and approve calculation packages prepared by Project Teams and 3rd party design consultants (motions/stability/strength)• Carry out stability calculations for project teams, maintenance of the vessel stability software and documentation through the preparation of stability submissions, software models, inclining experiments, displacement checks etc.• Undertake structural design calculations and drawings to Class requirements in support of vessel upgrades and modifications• Can meet with clients and interpret their needs in describable tasks that can be carried out and subsequently deliver and fulfil the client's requirements always promoting all aspects of Houlder's portfolio of skills and experience• Review and approve plans as part of a ship building contract for a variety of vessels including ferries, high speed craft, Ro-Ro ships, sophisticated cargo carriers and tankers. This will entail justifying comments to the client and attending technical meetings with shipyards to convey these comments and have them implemented• Interface with various Classification societies and Flag states to understand their requirements, and to convey to them our understanding of their requirements and that we can produce designs and proposals that fulfil these in a simple and economic approach suitable for our clients• To ensure that all proposed works to be carried out onboard vessels which fall within the remit of the Naval Architects are carried out to best industry and statutory standards in a safe and cost-effective manner• Conduct design review meetings to assure that technical objectives are being achieved• May act as a leader or part of a team for site surveys, including deadweight surveys, inclining experiments, equipment tests and other site activities such as yard capability review• Ensure that all design work is performed, reviewed, checked and approved in accordance with the engineering procedures or when specified to a Project Quality Plan• Ensure that all work is carried out in accordance with Company Quality Control procedures• Ensure the maintenance of a filing system directly related to the work undertaken by the Naval Architects• Any other duties as required may be required from time to time by senior management	

Knowledge and Qualifications:Desirable Experience

- Proficient in use of Microsoft Office applications including Excel, Word, Project etc. and other software such as AutoCAD
- Intern placement work experience in Naval Architecture/Engineering
- Applicant should have a solid Engineering background, with demonstrable knowledge of vessels' structure
- Awareness of Classification society and Flag state rules and regulations
- Basic understanding of beam element analysis software
- Basic understanding of finite element analysis (FEA) software e.g., Ansys or similar
- Basic competence of 2D/3D CAD software

Qualifications

- Essential: BEng (Hons), MEng or MSc (or equivalent) in Naval Architecture, Ship Science or other relevant subject (minimum Class 2:1/Distinction (or equivalent foreign awarding academic body)
- Preferred: Associate Member of the Royal Institution of Naval Architects or similar marine related professional body

Job Specific Requirements

- Ability to travel in the UK and overseas at short notice
- Likely to hold Full UK Driving Licence
- An Offshore survival certification may be required at a later date, if there is a specific project requirement