

JOB DESCRIPTION

Job Title	Senior Naval Architect
Location:	South Coast, UK
Reports to:	Director, Ship Design & Engineering
Overview of Role:	
<p>To undertake ship design and other project work, site surveys, prepare quotations for new projects, undertake project management, oversee technical performance, including engineering, design, and analysis in support of the company's Naval Architecture, and engineering contracts.</p> <p>In addition to the technical work the role involves an element of management of the relationship with Houlder's existing clients by maintaining a good business relationship to ensure repeat business orders and recommendations to other potential clients.</p>	
Key Responsibilities and duties:	
<ul style="list-style-type: none">• Take a senior role in our naval architecture capability and development• Produce sound, cost-effective new designs for a variety of ship types, ranging from ferries to offshore vessel.• Ability to understand, supervise, distribute, and oversee analysis of 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)• Act as a leader or part of a team for site surveys, including deadweight surveys, inclining experiments, structural surveys, equipment tests and other site activities such as yard capability review.• Prepare tenders for new projects.• Supervise or conduct 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.• Supervise or undertake structural design calculations and drawings to Class requirements in support of vessel upgrades and modifications.• Be able to meet with clients and interpret their needs in describable tasks that can be conducted and subsequently deliver and fulfil the client's requirements at all times 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. 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 conducted 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.• Act as a Mentor to junior naval architects and internship students• 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• Monitor the latest developments in ship design, propulsion, operation and regulation• Any other duties as required by senior management	

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Qualifications & Accreditations:

- 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: Member of the Royal Institution of Naval Architects
- Ideally chartered or close to achieving chartership.

Experience:

Essential

- At least 10 years of relevant experience in the marine shipping industry
- Experience of complex projects of up to 3 years' duration
- Experience of playing a senior role in concept and basic designs for a variety of cargo, passenger and SPS vessels and ability to produce sound, cost-effective designs.
- Familiarity with knowledge of specialist software for stability, motions and hydrodynamic, mooring, structural and FEM analysis to enable the supervision and leadership of a team of operators.
- Proficient in use of Microsoft Office applications including Excel, Word, Project etc. and other software such as AutoCAD.
- Operational experience: including experience of dealing with operators of vessels understanding their needs and urgencies and being able to meet them and working in a shipyard.
- Applicant should have a solid engineering background, with demonstrable knowledge of vessels' structure, machinery and systems enabling effective technical solutions for our clients' problems to be developed and the ability to formulate the methods to be used in the engineering analysis.
- A sound knowledge and use on a day-to-day basis of the rules and resolutions covering operation of passenger and cargo ships.
- Meeting and interfacing with Classification societies to seek approvals and resolution of problems.

Desirable

- Shipyard experience
- Ability to use stability software (NAPA) software for intact and damage stability.
- Ability to use FEA software (ANSYS)
- Ability to use 3D modelling software (SOLIDWORKS)
- Experience in the use of composites or aluminium in ship design and construction
- Experience in ship surveys

Competencies for this role will include the following:

- Regulatory knowledge: Thorough knowledge of Classification Society, MCA, IMO and other rules and regulations particularly in stability, lifesaving, escape and evacuation, fire protection, fire detection and control, environmental protection.
- Industry development: Up to date with industry developments, statutory regulations and codes of practice
- Time management: Able to plan workload and meet rigid deadlines
- Design skills: Able to think and conceptualise in three dimensions
- Planning & Organising: Ability to establish efficiently an appropriate course of action for self and/or others to accomplish a goal
- Communication: Able to express facts, ideas or feedback in a clear and concise manner
- Flexibility. An ability and willingness to take on tasks slightly outside your immediate field of experience.

March 2023