JOB ROLE & RESPONSIBILITIES

Date: 07/05/2026

NAVAL ARCHITECT	
The Naval Architect is responsible for hydrodynamic and aero-servo-elastic analysis, mooring system design, and optimization for FOWT platforms. With expertise in naval architecture and offshore engineering, the main objective is to ensure the reliable and efficient global performance in varying environmental conditions. This includes conducting hydrodynamic modelling studies, designing mooring systems, and collaborating with multidisciplinary teams to integrate solutions into FOWT designs. The role requires strong analytical skills, knowledge of industry standards, and effective communication to support the successful execution of Gazelle's projects.	
Initial training area	Naval Architecture
Department	Technology & Innovation
Qualification level	Bachelor's degree in Naval Architecture, Ocean Engineering, Marine Engineering or a related field. Specialization in hydrodynamics, marine structures, or offshore engineering is preferred.
Location	Candidates from Portugal, Spain and United Kingdom will be considered. Positions to be based in Viana do Castelo, Portugal preferably.
Reports to	Lead Hydrodynamic Engineer
Professional experience	▪ 5 years of experience in naval architecture, hydrodynamics, or offshore engineering, with a focus on mooring system design and analysis and optimization. ▪ Good technical knowledge of aero-hydrodynamic analysis software (OrcaFlex, Deeplines Wind, Bladed, OpenFAST or similar), and Office (Word, Excel, PowerPoint). ▪ Proficiency in programming languages such as Python and MATLAB. ▪ Must have a good working awareness of codes and standards in FOW or similar industry. Specific experience with DNV or ABS standards will be a plus. ▪ Demonstrated experience in hydrodynamic couple analysis, mooring system optimization, for offshore structures. ▪ In-depth knowledge of mooring system design and analysis for offshore structures, including dynamic response and station-keeping strategies.
Specific professional specialization relevant to the hiring area	▪ Expertise in hydrodynamic analysis and modelling, including wave loading, current forces, and vessel motions, with a focus on FOWT platforms. ▪ Proficiency in software tools used for hydrodynamic analysis and mooring system design, such as OrcaFlex, OrcaWave, Deeplines Wind, ANSYS AQWA, WADAM, and WAMIT. ▪ In-depth knowledge of mooring system design principles, including selection of mooring components, layout optimization, and fatigue analysis.
Other requirements/knowledge/skills	▪ Strong analytical and problem-solving skills, with the ability to interpret complex hydrodynamic data and make sound engineering decisions. ▪ Excellent communication and interpersonal skills, with the ability to collaborate effectively with multidisciplinary teams and stakeholders. ▪ Familiarity with offshore regulatory requirements, classification society rules, and industry guidelines applicable to mooring systems and floating structures. ▪ Knowledge of structural engineering principles and practices related to offshore structures, including load transfer mechanisms and structural integrity considerations.

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	▪ Experience with project management methodologies and tools, including the ability to plan, organize, and execute engineering activities within project schedules and budgets. ▪ Multidisciplinary skills and good knowledge of cross functional disciplines. ▪ Should demonstrate enthusiasm, be supportive and engaged with his/her team. ▪ Good professional verbal and written communication in English. Good level of verbal communication in mandarin will be advantageous.

Activities/Functions (more detail)

- Conduct coupled hydrodynamic and aero-servo-elastic modelling and analysis studies to assess the dynamic behaviour of FOWT platform, tower, turbine and mooring systems using industry-standard tools under various environmental conditions.
- Perform integrated load analysis and dynamic response to evaluate the performance of FOWT platform and mooring systems, including extreme, fatigue, and operational conditions, ensuring compliance with relevant design standards.
- Design, assess and optimize mooring system configurations for FOWTs, considering factors such as platform stability, station-keeping performance, and fatigue life.
- Develop and define load cases and design conditions in accordance with industry standards, supporting both concept development and detailed design (pre-FEED, FEED, and detailed engineering phases).
- Collaborate with multidisciplinary teams of structural engineers, naval architects, control engineers and other stakeholders to integrate mooring, tower, turbine and other systems into overall FOWT designs, ensure compatibility with structural requirements and provide information for structural analyses.
- Interface with subcontractors, suppliers, and vendors to procure mooring components and equipment, ensuring compliance with project specifications and quality standards.
- Conduct technical reviews and assessments of mooring system designs, including documentation and calculations, to ensure accuracy, completeness, and compliance with industry standards.
- Provide technical support and guidance to project teams during the engineering, construction, and installation phases of FOWT projects, addressing technical inquiries and resolving engineering issues as needed.
- Contribute to the preparation of technical reports, regulatory submissions, client deliverables, and presentations, communicating complex engineering findings clearly to both technical and non-technical stakeholders.
- Contribute to research and development activities and continuous improvement initiatives, incorporating emerging methodologies, tools, and technologies into engineering workflows.
- Stay informed about industry developments, emerging technologies, and best practices in offshore wind energy and mooring system design, contributing to the continuous improvement of engineering processes and methodologies.