



## JOB DESCRIPTION

### Naval Architect

Revised October 2023

#### **POSITION SUMMARY:**

The Naval Architect is responsible for hull and propulsor design and evaluation, performance predictions and evaluations. Additional responsibilities include weight monitoring, structural evaluation and oversight, stability analysis, oversight of class issues relating to naval architecture, and support to manufacturing prior to and during the construction phase. The Naval Architect will also coordinate directly with contracted Naval Architecture and Engineering firms per project demands providing information and Project Management to assure compliance to Burger standards and build processes.

#### **ESSENTIAL JOB FUNCTIONS:**

- The Naval Architect is responsible for producing and reviewing knowledge base sections and yacht construction specifications including vessel mission, performance and dimension parameters, hull and superstructure lines and 3D surface models, propulsor design and analysis, tank arrangement and capacity plans, stability and weight control, classification, scantlings and structure for the hull and superstructure, construction fixtures, welding schedule, freeing port and bulwark details, rub rails and hull appendages, and special features for each project assigned.
- Review and approve all naval architecture work received from third party marine engineering firms and vendors.
- Convert or oversee conversion of structural drawings into detail drawings for hull, superstructure, outfitting, and nested parts with accurate Bill of Materials.
- Work with Supply Chain and vendors to manage nested part information.
- Oversee vessel handling including the development of plans and calculations for lifts, moves, rolling, blocking and launches.
- Lead, coordinate and submit pertinent information to regulatory bodies as required by each vessel with working knowledge of ABS, MCA, USCG/CFR and Flag State rules and regulations. This includes securing required certificates including admeasurements, International Tonnage Certificates, MARPOL compliance, etc.
- Oversee the creation and updating of the weight monitoring program for each vessel.
- Create, manage, and report the status of development of 3D modeling for structure and systems within area of responsibility and master schedule.

#### **DECISION MAKING:**

Exercise administrative judgment on a regular and continuous basis and assume responsibility for decisions, consequences and results having an impact on people and quality of service within the functional area.



**COMMUNICATION:**

Strong communication skills, both verbal and written, are important as the Naval Architect must communicate positively and effectively with co-workers at all levels of the organization, contracted engineering partners, suppliers, and vendors.

**EDUCATION:**

A Bachelor of Science degree in Naval Architecture is required.

**EXPERIENCE:**

- Minimum of 3 years' experience in ship design and construction.
- Experience in motor yacht design requirements, shipyard new construction projects in aluminum or steel, and repair/refit projects preferred.
- Hull design and evaluation, structural detailing knowledge, weight monitoring processes, lofting and NC nesting experience, knowledge of marine mechanical systems and yacht construction specifications are all required.
- Desired software experience desired includes 2D and 3D CAD, , ShipConstructor, and Rhino.

**PHYSICAL REQUIREMENTS:**

Generally working in an office environment and at a desk with occasional light lifting required. Frequent visits to both the joiner facility and the shipyard are also required along with the ability to ascend/descend staircases while observing designs onboard projects.

**GENERAL STATEMENT:**

This description is a general statement of required major duties and responsibilities performed on a regular and continuous basis. It does not exclude other duties as assigned.