

## **Job Specification: Naval Architect (Nailsworth or Hamble)**

### **1. Background**

Steller Systems is a fast-growing consultancy that can offer a varied, rewarding career for motivated individuals who relish a challenge. We are looking for team players with strong technical skills and an ability to communicate clearly. We know that our people are our business, and so we are dedicated to empowering, inspiring and leading them to ensure that they always give their best.

This role could be based either at our head office in Nailsworth, Gloucestershire, or at our office in Hamble, Hampshire.

### **2. Job Description**

The company requires a self-starter in this role who can work with the company's senior consultants and executive management to deliver projects and tasks given to them to demonstrable quality and time objectives.

Naval Architects within Steller Systems work on a number of interesting and challenging projects, working closely with our clients to ensure we deliver in excess of their expectations. We provide the following services:

- Concept design:
  - Whole-ship design including weight balance and hull optimisation.
  - Concept design using the latest block building methodology developed for our military customers.
  - Innovative engineering-led design with the ability to rapidly and accurately synthesise new designs and assess/optmise their performance.
  - Seakeeping analysis and optimisation including stabiliser assessment and tailoring.
  - Design analysis including resistance, and propulsion integration and optimisation.
  - Propulsion innovation including the use of pods, hybrid propulsion plants, waterjets and high power/high speed applications.
- Design assurance and due diligence.
- Stability management including:
  - Modelling and model preparation or assurance.
  - Analysis.

- Conduct and analysis of inclining experiments worldwide – highly professional and efficient team working both as assurers and conductors.
- SIB creation.
- Stability training for officers and stability support.
- We are one of only two Recognised Organisations allowed to oversee inclining experiments on behalf of the UK Ministry of Defence.
- Structural analysis including complex FEA and structural optimisation. Very good at proposing solutions for new or older ships having things added or changed.
- Emergency response.
- Towing analysis.
- Escape and Evacuation planning and analysis.
- Survivability and security against a range of threats.
- Re-design of existing platforms through close stakeholder engagement, discussion and design option studies.
- Design assurance through analysis and assessment of designs and proposals for improvements.
- Shipboard material state surveys.
- Due diligence for new owners taking on a ship, ensuring the ship is materially safe/suitable and assessing the steps necessary to bring the ship in line with good safety practice, Class and Flag requirements/legislation.

### **3. Qualifications and Attributes**

As a Naval Architect you are expected to:

- Have a good degree in Naval Architecture or Ship Science with at least two years' post-graduate relevant experience.
- Be looking to achieve membership of RINA and Chartered Engineer status.
- Have strong interpersonal skills.
- Have experience of working on complex ships, submarines, warships or superyachts.
- Work without direct supervision on your own initiative.
- Work with pace and confidence.
- Display excellent written and oral communication skills in English.
- Demonstrate good skills with a range of professional software tools including Paramarine, Seasafe, Strand 7, AutoCAD Inventor and Rhino. If you have limited experience in any of these tools we will provide training, but prior experience is a positive.