

Job Specification: Submarine Naval Architect (Senior or Principal, 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 will be based at Steller Systems' offices in Nailsworth, Gloucestershire, or Hamble, Hampshire and may involve occasional travel in the UK and abroad.

2. Job Description

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

- Concept design:
 - Whole-ship and whole-boat design.
 - Concept design using the latest block building methodology.
 - 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, working both as assurers and conductors. We are one of only two Recognised Organisations allowed to oversee inclining experiments on behalf of the UK Ministry of Defence.
 - SIB creation.
 - Stability training for officers and stability support.

- Structural analysis including complex FEA and structural optimisation. Proposal of solutions for alterations and additions to new or older vessels.
- 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 Senior or Principal Naval Architect you are expected to:

- Have a good degree in Naval Architecture or Ship Science with at least 6 years' (for Senior) or 8 years' (for Principal) post-graduate relevant experience.
- Be a member of RINA and achieved Chartered Engineer status.
- Have strong interpersonal skills.
- Have experience of working on submarines.
- Work without direct supervision on your own initiative.
- Work with pace and confidence.
- Display excellent written and oral communication skills in English.
- Be capable of using Paramarine to a high standard.
- Demonstrate good skills with a range of professional software tools including 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.
- Demonstrate excellent word processing and IT skills, including knowledge of a range of software packages and comprehensive capabilities in Microsoft Office (Word, Excel, PowerPoint and Outlook).
- Be a confidential, honest and reliable individual.
- Provide flexibility and adaptability to juggle a range of different tasks.
- Demonstrate good project management skills.
- Have a current UK security clearance or be capable of getting one.