

Electrical Design Engineer

Location	The Dockyard, Pembroke Dock
Industry/Sector	Marine Engineering/Manufacture
Job Term	Permanent
Salary	Up to £25k

Company Overview:

Mainstay Marine Solutions is a commercial boat builder based in Pembroke Dock and specialises in designing and building steel and aluminium craft up to 40 metres in length.

Position Overview:

We require a junior Electrical Design Engineer to work on up-coming marine projects for our worldwide customer base, within a growing design department. The ideal candidate will have previously worked within a marine design/engineering industry.

Key Responsibilities:

Working as part of a design team, you will work under the direction of the Senior Naval Architect where the key responsibilities are:

- Support the senior Electrical Design Engineer, delivering timely and accurate electrical design documentation and drawings to support procurement and production for New Build and Marine Services projects.
- Liaise with suppliers as required
- Generate fully specified Bills of Materials for procurement
- Generate and issue production ready drawings, including schematics, arrangements and detailed manufacturing/engineering drawings using AutoCAD Electrical and Autodesk Inventor
- Configure and program electronic systems such as PLCs, displays and fire alarm systems
- Participate in design reviews
- Provide technical support to the production teams
- Participate in other design office tasks, including support to sales activity
- Identify lessons learnt from manufacturing and in-service vessel users, such that we continuously improve the reliability and utility of new electrical designs
- Maintain and update the Mainstay Marine electrical design quality standards and enforce a standard design process
- Ensure activities meet and integrate with organisational quality, health and safety, and environmental policies

Skills/Requirements:

Candidates should be:

- Thorough, methodical and pro-active
- Able to work as a member of a team and under own initiative
- Able to demonstrate an ability to visualise ideas from verbal or written instruction
- Versatile to work on several projects in a short period of time
- Able to demonstrate at least 3 years' experience within an industrial automotive or marine engineering design electrical/electronics environment
- Experienced using AutoCAD Electrical design software.
- Graduate with academic and practical qualifications, or equivalent experience

Desirable Skills:

Desirable requirements are:

- Understanding of common production processes relating to marine electrical and electronic systems
- Experience of integrating AutoCAD Electrical designs within Autodesk Inventor
- Programming experience with VB, C++ and PLC systems
- Knowledge of CANBUS protocols for engines and navigation equipment
- Knowledge of workings/operation of boats/ small ships

Additional Information:

The Electrical Design Engineer role is for someone that can hit the ground running with electrical systems design, efficiently capturing in AutoCAD Electrical the requirements from the vessel specification and working with the other design team members to ensure appropriate space is allocated within the vessel for the electrical components to be installed and easily maintained.

Interpreting customer requirements and engaging with Classification societies (e.g. DNV, BV) and MCA to ensure the design meets their stringent demands.

Engaging with suppliers to ensure the most appropriate and cost effective solutions are chosen, then generation of Bills of Materials for the effective procurement of materials to meet scheduled build programmes.

Salary:

Up to £25k dependent on experience

Contact Details:

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