

Electrical Architect (Marine Equipment)



COMPANY OVERVIEW

Founded in 1987, Stirling Dynamics has grown from a handful of expert engineers to a team of 100+ staff. The success of the company is made possible through a customer-focussed, can-do culture. Everything we do is underpinned by our company mission statement:

- To deliver innovative technical services and technology solutions into our core markets
- To build sustainable, beneficial relationships between suppliers, clients and institutions
- To be recognised as an innovator and catalyst of new technologies
- To continue to make valuable investments for the future through education, research and development

STIRLING AT A GLANCE



70+

Aircraft worked on



300+

F-35 pilot control sets produced



10+

Navies supported worldwide



30+

Years of service



6

Technical papers presented to industry last year



80%

Percentage of exports

STRATEGY AND BUSINESS PERFORMANCE

Strong financial performance is essential to support investment and growth. Looking forward we aim to achieve the following objectives:

- Increased business development and marketing activities to develop new markets
- Addition of new engineering capabilities to meet emerging customer needs
- Technology refresh for control products and systems
- Increased investment in training and professional development schemes

BENEFITS



Up to
30 days

Annual Leave



Tax/NI savings

Pension Scheme



10am-4pm

Flexible Working

½ day Friday



Up to
£1,000

Cycle to Work



Personal/ Company

Bonus



Up to
£3,000

Recommend a Friend



Private

Healthcare



2x salary

Life Assurance

We offer a range of benefits to our employees to recognise their efforts. Playing hard is equally as important as working hard, so regular events are held throughout the year which provide an ideal opportunity to mix socially.

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THE ROLE

Due to an increase in volume of work from new contracts and supporting continued growth, Stirling Dynamics is looking for an Electrical Architect on a consultancy or short-term contract basis (with option to extend) for a marine equipment programme.

The ideal candidate would be familiar with all aspects of Electrical and Electronic (E&E) engineering for equipment within the marine environment from specification to qualification and Installation, Inspection & Test (IIT) to Setting to Work (STW). The candidate will bring a wealth of experience in designing to and validating against international and defence standards for electrical and electronic safety assurance. In addition, there is a significant element of design assurance required of the bought-in equipment.

The candidate will understand (not an exhaustive list): computing platform evaluation, wiring (routing), connector design and selection, power (including management, protection, rectification, conversion and budgeting), communications protocols (electrical characteristics), analogue to digital conversion (and vice-versa), prevention of electromagnetic interference, redundancy in design and human factors.

Working across our marine systems programmes, the ideal candidate will be flexible, willing to learn and value a changing environment. An ability to work from rapid concepts to more formal safety critical development projects and work closely with the systems engineering team is essential to success in this role.

This role is based in our Clifton office (moving to North Bristol, December 2019) and may require occasional trips to customer sites in the UK or internationally. **The candidate must be willing to undergo and obtain UK Security Clearance.**

KEY ACCOUNTABILITIES

- Be a key part of a functional engineering team on the marine equipment programme
- Be willing to travel and engage with the customer in requirements elicitation to eventual system install
- Act as Subject Matter Expert (SME) across all electrical and electronic elements of the equipment
- Provide expertise in the application of international and defence standards regarding E&E engineering
- Promote within the project environment adherence to quality and standards, including those issued via the Company's Quality Management System, classifications and statutory bodies

QUALIFICATIONS, KNOWLEDGE AND SKILLS

- Bachelor's Degree qualified (e.g. Electrical and Electronic Engineering, Industrial Equipment)
- Awareness of MIL STD 810, MIL STD 461, MIL STD 1250A, MIL DTL 38999, DO-160, DO-254, IEC61508 and IEC 62368-1 or other equivalent guidelines and standards
- Practical experience in working within the systems "V-Model" lifecycle for electrical and electronic design
- Experience in writing engineering documentation across the lifecycle from planning to test records
- Awareness of product Configuration Management (CM) and its application to the product
- Exposure to Integrated Logistic Support (ILS) elements: Availability, Reliability & Maintainability (ARM)
- Awareness of design assurance of electrical and electronic equipment within a quality system
- Understanding of the testing constraints within the marine domain
- Exposure to DOORS for requirements management and EE-relevant tooling (LabVIEW, Multisim, etc...)

PERSONAL CHARACTERISTICS

The personal qualities of the jobholder will be key to success in this role. The following characteristics and qualities are identified as essential for the role:

- Enthusiastic, self-motivated and be able to demonstrate initiative
- An ability to manage multiple tasks and work independently when required
- Ability to take ownership of an activity and see through to a successful outcome

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- Demonstrable diplomatic and professional approach when dealing with colleagues and customers
- Confidence to challenge practices and the willingness to question to gain a full understanding of issues
- The capability to work efficiently and accurately, with an attention to detail

FACTS AND FIGURES

| | | |
|----------------|---|---|
| Pay & Benefits | – | Competitive Package |
| Department | – | Systems |
| Reporting to | – | Principal Systems Engineer / Chief Engineer / Project Manager |
| Location | – | Clifton (moving to North Bristol, December 2019) |
| Contract type | – | Consultancy, short-term |
| Job Reference | – | 27/19 |