

## **CURRENT JOB DESCRIPTION: Electronics Design Engineer**

**Reporting to:** *Director of Research and Development*

### Main Job Role (Job Mission)

To design sensors, communications devices and related products to enhance Campbell Scientific's product line.

### Main Responsibilities

- To design new product including all steps from initial concept, specification, product design and product testing.
- The design process will involve working with the Director of R&D to ensure best selection of sensing elements and technologies and with a small team of engineers undertake component selection, schematic and circuit board design, pricing and overseeing production of prototypes.
- Embedded firmware development as required
- Writing of code for single board computers if required.
- You will also be required to carry out product verification trials and write reports on the performance of the products produced by yourself or others.
- For some products you will be required to aid in the production of jigs and documentation required in the production process.
- Where a project is assigned to be managed by you, you will be expected to run the project meetings agreed timelines and budgets.

### Secondary responsibilities

- You will provide marketing and sales support activities necessary to ensure success of the products you are involved in developing including helping to prepare manuals and training material.
- You will support production department when needed to ensure smooth production of products developed by the R&D team.
- Undertake occasional travel on Company business when required to visit customers, including overnight stops in the UK and overseas.
- Represent the Company in a positive, helpful and professional way at all times.
- Undertake any other reasonable task that may be asked of you by your supervisor or senior management

## PERSON SPECIFICATION

<b>Knowledge and Experience</b>	<b>Essential</b>	<b>Desirable</b>
Relevant experience in electronic and embedded systems development	X	
Knowledge / experience of sensors, the technology used and key markets		X
Knowledge / experience of modern communications methods used for remote data collection and IoT applications	X	
Knowledge of project management techniques and software for tracking project progress	X	

<b>Qualification</b>	<b>Essential</b>	<b>Desirable</b>
A relevant Engineering or Science based qualification to HND or above	X	
A relevant professional qualification in Firmware Software Development		X

<b>Skills and Competencies</b>	<b>Essential</b>	<b>Desirable</b>
Proven technical skill in the use of PCB design software	X	
Proven technical skill in the use of embedded firmware tools	X	
Strategic Thinking, demonstrated by an ability to maintain a broad overview of both technical and business challenges in order to achieve long term goals whilst realising short term objectives	X	
Proven technical skill in developing code for single board computers running embedded Linux or similar operating systems.		X
Proven technical skill in data analysis and writing reports		X
Ability to analyse customer requirements and define these as a specification	X	
Team working ability, shown by working co-operatively with others, continually reviewing objectives and priorities, and accepting collective responsibility.	X	
Customer Focus, demonstrated by an awareness that Customer Service is vital to the future growth of the business and therefore integral to all activities		X
Ability to communicate effectively, orally and in writing at all levels and in a variety of styles and settings		X
Problem Solving; ability to assess the extent and scope of a given problem, to analyse the issue and to identify the appropriate solution to meet customer needs	X	
Influencing skills, evidencing ability to gain agreement or acceptance through influence, persuasion or negotiation	X	
Organisational skills, demonstrating the ability to establish plans of action to effectively ensure achievement of results for yourself and others working on a project with you.	X	

Decision Making, shown by the ability to seek out and sift relevant information and then make rapid decisions that respond to short-term pressures yet do not compromise the company's long-term strategies	X	
Good interpersonal skills, able to build solid and constructive relationships with internal and external clients		X
Understanding of measurement theory and practice		X

