

CAMPBELL SCIENTIFIC JOB DESCRIPTION

ROLE NAME:	PHYSICIST / METEOROLOGIST – SENSOR SCIENTIST
Reporting To:	Director of Research and Development

1. Role Description

The Sensor Scientist role is to develop new and undertake improvements to existing sensors to meet the needs of our environmental market clients. The role will entail you working on designs from concept stage to fully validated products, working with our internal team of design engineers and building partnerships with universities and leading authorities.

You will be aware of optical methods, use of electronic design basics and full product lifecycle support, some knowledge of the Environmental market needs is ideal, but not mandatory as we will support you in acquiring the necessary knowledge for these areas.

You will be comfortable in talking with scientists and operational staff alike so that you build a balanced picture of the ideal and practical needs of the target user base.

2. Main Responsibilities

- To assist in the design of new products including all steps from initial concept, specification, product design and product validation and 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.
- Produce product requirements specifications and project initiation documents for approval.
- Liaise with other parts of the Campbell Scientific Group on co-ordinated research and development plans to ensure that we meet the needs of our global client base.
- Where a project is assigned to be managed by you, you will be expected to run the project meetings agreed timelines and budgets

3. 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, research associates and other Campbell Companies, including overnight stops.
- 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

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4. Personal Specification

Skills and Competencies	Essential	Desirable
Physicist or Optical or electronic design background	x	
Knowledge / experience of sensors, the technology used and key markets	x	
Proven technical skill in design analysis from first principals	x	
Proven technical skill in detailed analysis and validation of products. Note this may include writing of reports and scientific papers in collaboration with third parties	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	
Understanding of measurement theory and practice	x	
Ability to analyse customer requirements and define these as a specification	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	
Knowledge / experience of modern communications methods used for remote data collection and IoT applications		x
Knowledge of product management techniques		x
Proven technical skill in developing products in a multi-disciplined environment (Electronics, mechanical, optical or chemical)		x
Team working ability, shown by working co-operatively with others (internal and external), 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 integral to all activities		x

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Qualifications	Essential	Desirable
A relevant Science or Engineering based qualification to HND or above	x	
A relevant professional qualification in Meteorology, Optical design or Electronics		x