

Job Title:	Electronics/Electrical Engineer	Position Type:	Full time
Location:	East Sussex	Travel Required:	10%
HR Contact:	personnel@quorumtech.com	Date posted:	TBD

Job Description

MAIN PURPOSE OF JOB

To ensure that Quorum Technologies Ltd. maintains its position as the leading provider of Cryo-SEM preparation chambers and EM coaters by developing new products, in both Bench-top coaters and Cryo-EM. A new position has been created to meet increased demand for new product development (NPD) with a focus on working with electron microscope manufacturers to develop integrated products.

RELATIONSHIPS

REPORTS TO: Engineering Manager

RESPONSIBLE FOR: Design and development of new product technologies and new product development

INTERACTS WITH: Commercial, Production, Service departments and microscope manufacturers

ROLE AND RESPONSIBILITIES

The Electronics/Electrical Engineer will be responsible for design and development of a broad range of new products for Cryo-EM sample preparation. Tasks will include:

- Work as part of NPD teams to design and develop electrical/electronic solutions, meeting project timescales.
- Liaise with Sales, Marketing and OEM customers to define user interface needs and document them in technical requirements.
- Design both analogue and digital electronic systems.
- Identify suitable hardware design solutions and take responsibility for their interface and operation
- Software and firmware development across a range of products. Defect analysis, debugging and problem solving. Configuration management and version control
- Programming experience to cover a wide range of communication protocols.
- Write test specifications for both development and Production.
- Design to meet RoHS, Low Voltage Directive and EMC Directive requirements.
- Compliance analysis and testing to RoHS, Low Voltage Directive, EMC and any other applicable directives

The above is not an exhaustive list of duties and you will be expected to perform different tasks as necessitated by your changing role within the organisation and the overall business objectives of the organisation.

PERFORMANCE MEASUREMENT

- Successful completion of new product development projects, on-time and within budget.
- Concise, detailed and accurate reporting of results, future forecasting of requirements and departmental KPIs as required by senior management.
- Ability to meet customer expectations and to maintain Quorum's established reputation for excellence.
- Ability to ensure that all established administrative routines and records are kept accurately and up to date.

QUALIFICATIONS AND EDUCATION REQUIREMENTS

Degree or HND in Electronics or Electrical Engineering or similar discipline.

REQUIRED EXPERIENCE AND SKILLS**The successful candidate must have:**

At least 5 years electronic/electrical development experience working on scientific equipment or similar.
Programming using embedded C or C++ and experience with Linux
Managing hardware obsolescence and analysis of field failure trends
Must be competent in PCB design.
Proficiency in Microsoft Office Suite, especially Microsoft Excel.
Ability to cope with rapidly changing demands on time and prioritise jobs according to urgency.
Excellent communication skills, the ability to challenge and question while maintaining positive relationships.

PREFERRED EXPERIENCE AND SKILLS

Vacuum system design, build & testing (typical pressures to 1×10^{-7} mbar).
Design of LN2 cooled systems
MRP system experience (preferably SAP Business One)
Conductive coating technology.
BOM structuring and maintenance.
Automation control.

ADDITIONAL NOTES:

This role includes overseas travel. Valid driving licence and passport required.
Attendance at trade shows and customer sites means that ability to sit/stand for long periods is required.
Assisting with packing/unpacking products will require bending, lifting and carrying (sometimes) heavy equipment.