

<b>Job Title:</b>	Test Engineer	<b>Position Type:</b>	Full Time – 37 hours per week
<b>Location:</b>	Laughton, East Sussex	<b>Travel Required:</b>	10%
<b>HR Contact:</b>	personnel@quorumtech.com	<b>Date posted:</b>	April 11, 2022
<b>Job Description</b>			
<p><b>MAIN PURPOSE OF JOB</b></p> <p>This role covers the requirement to support the mechanical research, development and design of equipment in new product development for sample preparation for electron microscopy to create equipment that can be commercialised to expand the Quorum range of sample preparation products for electron microscopes, including sputter coaters, vacuum evaporators, critical point dryers, freeze dryers, plasma etchers and cryo-SEM. Additionally the role supports the existing Quorum product range through the Engineering Change process and provides advice and support to internal customers.</p> <p><b>RELATIONSHIPS</b></p> <p><b>REPORTS TO:</b> Engineering Manager</p> <p><b>RESPONSIBLE FOR:</b> NA</p> <p><b>INTERACTS WITH:</b> Other engineering staff and Applications specialists: technical specifications; Commercial: new product roadmap; Suppliers: specialist equipment providers.</p> <p><b>ROLE AND RESPONSIBILITIES</b></p> <p>The Test Engineer is responsible for the specification and test of new products with the goal of ensuring that Quorum continues to be a market leader in electron microscopy sample preparation and to deliver the highest possible value and quality for its customers. Tasks include:</p> <ul style="list-style-type: none"> <li>• Specification of product performance at the outset of a new product development</li> <li>• Devise methods of testing required and write test procedures in support of verification test requirements.</li> <li>• Conduct functional, reliability and reproducibility tests.</li> <li>• Generation of clear, concise test reports as records of investigation or design performance, using statistical methods in relation to verifying the reproducibility of results.</li> <li>• Use test report data to influence design decisions and demonstrate specification compliance.</li> <li>• When necessary, build of conceptual test equipment and prototypes for development testing and to further Engineering understanding.</li> <li>• Conduct engineering investigations through research, test or data analysis</li> <li>• Creation of product operating manuals, Marketing brochures and (when appropriate) build instructions.</li> <li>• Assist with training of staff in Production assembly and acceptance test, and Service in how to support.</li> <li>• Understand compliance to ISO9001 and relevant equipment directives and standards related to NPD.</li> <li>• Support sustaining engineering activities and strive to continually improve existing products.</li> <li>• Contribute to the NPD process as a team-player.</li> <li>• File and maintain test data in in project and Technical Construction Files.</li> </ul> <p><b>These activities are not an exhaustive list of duties and you will be expected to perform different tasks as necessitated by changes in your role within the organisation and the overall business objectives of the organisation.</b></p> <p><b>QUALIFICATIONS AND EDUCATION REQUIREMENTS</b></p> <p>HNC / HND, degree or equivalent in science or engineering discipline.</p>			

Key Words: sputter | coater | vacuum | plasma | magnetron | cryo | electron microscopy | sample preparation | SEM | new product development | agile

### **REQUIRED EXPERIENCE & SKILLS**

#### **The successful candidate will have:**

Two years of experience in a comparable test type role and a relevant field is **essential**.  
Ability to understand instrument build, operation and test requirements  
Experience in conducting reliability, repeatability and reproducibility tests on new products (preferably instruments)  
Demonstrable problem-solving capability and interpersonal skills.  
Hands-on experience with the ability to discuss and translate experience into design changes, when necessary  
Excellent communication skills, both verbal and written, including the ability to challenge and question while maintaining positive relationships.  
General proficiency with computers, especially MS Office.  
Good time management and experience of tracking multiple projects and differing deadlines.  
Ability to prioritise jobs according to urgency and work in a co-ordinated way, with other business functions  
Familiarity with new product development processes and procedures.

### **PREFERRED EXPERIENCE & SKILLS**

Experience in the operation and use of vacuum equipment or scientific instrumentation would be a distinct advantage.  
Operation and use of cryo systems.  
Knowledge of applicable regulations and standards affecting scientific instrumentation.  
Ability to influence development direction.  
Familiarity with SAP Business One would be an advantage.  
Interest and ability to understand the science and interact with key opinion leaders is desirable.

Must be willing to travel both within the UK and internationally for typically 10% of time, should the need arise for build and/or test work at a client or distributor.

### **ADDITIONAL NOTES**

This role may involve travel to meet customers and suppliers, which may include occasional overseas trips. Full valid driving licence and passport required.