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## Test & Reliability Team Leader

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### **About ION Science Ltd:**

ION Science has over 37 years of industry experience designing, manufacturing, and supplying PID gas sensors, gas detection instruments and leak detectors for a wide range of industries and applications. We are an unrivalled worldwide gas and leak detection company, with a team of workers who strive to deliver exceptional product quality and customer satisfaction. In 2022 ION Science was awarded the Queen's award for Enterprise for MiniPID Sensors. This is a fantastic opportunity to join our dynamic and growing team and be part of a well-recognised brand associated with quality.

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### **MAIN PURPOSE OF JOB:**

ION's Test team of engineers and technicians are responsible for the verification and validation of our existing and emerging sensor and instrumentation technologies. This includes ongoing life testing, data analysis, failure analysis and reliability reporting of our system and subsystem components to build overall design confidence.

The focus of this role is to lead and coordinate technology reliability and testing activities by:

- Evaluating and prioritising internal test and quality assurance demands
- Getting involved in hands-on product and reliability testing.
- Designing and developing, test methods for gas detection instruments and sensors.

### **MAIN RESPONSIBILITIES:**

- Lead the Test team and collaborate with cross-functional teams including Research, Product Development, Production, Quality Management, Product Managers, and external partners
- Develop, implement and document procedures for testing and failure analysis such as Test Plans, Methods, and conclusive Reports.
  - Apply principles of Verification and Validation (V&V)
- Identify, promote, and deliver internal improvement projects including the development, and maintenance of processes and standards
- Utilise Python to control test equipment, generate analysis scripts and visualise data using JMP
- Ensure all equipment owned by the group is maintained and calibrated
- Scope, develop and validate test infrastructure such as electromechanical test rigs
- Work with design teams to identify any bespoke test requirements
- Actively manage internal resource to ensure testing is completed as planned (and to the highest standard)



### **SKILLS/EXPERIENCE:**

**This is a hands-on role, and the person appointed will be expected to demonstrate:**

- A flexible, collaborative approach with good critical thinking skills and excellent attention to detail.
- Strong communication and teamwork abilities, building rapport with internal departments and external customers
- A structured, methodical approach to problem solving
- An understanding of following a New Product Development process
- The ability to work on multiple projects and meet required deadlines
- ION's core values
- Essential: Degree or HND level qualification in a relevant STEM subject or equivalent training/experience
- Knowledge of reliability, environmental and lifetime testing and failure analysis
- Experience in a product development / manufacturing environment
- Systems Reliability Engineering experience (Hardware, and Software/Firmware)
- Experience with statistical methods and software tools for data analysis (advantage)
- Experience in remotely controlling instruments through scripting in Python, LabVIEW or similar
- Use of standard lab tools including power supplies, data loggers, multimeters, gas cylinder regulators, and microscopes.
- Knowledge of reliability engineering projects and Quality Systems e.g. six-sigma would be advantageous
- Desirable: Understanding of scientific principles of gas chemistry relevant to VOC gas sensing and detection.

### **BENEFITS:**

- 25 days annual leave + Bank Holidays (annual holiday increasing with service)
- Excellent employer pension contributions of 8% after probation
- Life Assurance of 4 times of pensionable salary
- In-house training
- Discretionary Annual Bonus
- On site shower & changing facilities
- Long term service awards
- Monthly lunch & drinks laid on by the company
- Sick Pay
- Christmas party
- On-site parking
- Private Medical with AXA
- Bike Purchase Scheme
- Car share scheme
- Early finish on Fridays

### **WORKING PATTERN:**

- Monday to Thursday: 08:30 – 17:00, Friday: 08:30 – 15:45
- Immediate start available
- Full time – Permanent position.

### **LOCATION:**

This role is based at the ION Science head office, located in Fowlmere, 10 miles south of Cambridge. The role is required for you to be on site.



**OUR CORE VALUES:**



**Fun**



**Embrace  
change**



**Respectful**



**Responsive**



**Challenge the  
status QUO**



**Committed**

See what our employees have to say about working at ION: <https://ionscience.com/en/careers/>

Due to the high volume of CVs we receive, it might not be possible to provide feedback to all applicants. If you are successful, we will be in touch to arrange a call with our recruitment manager.