



## **Job Title: Manager, Product Testing**

**Job Summary:** A working manager, responsible for leading a team of testers to challenge our instrument control software and Medical Device products with embedded software to ensure they work as intended, meet their requirements, and are compliant with regulations.

**Essential Functions:** Coordinate and lead informal testing for the software used in/with our products. Design, manage, and execute tests and test plans for instrument control software and Medical Device products with embedded software to clearly confirm the products are ready for formal validation. Plan, supervise, and delegate activities of the test engineers. Work in an integrated team capacity to ensure the testing phase of projects is completed on time. Design, execute, and document manual and automated device/software tests.

Participate in software leadership meetings for resource and project planning. Help recruit, select, and train software testers. Assists in the definition of internal quality control standards and the maintenance of reliability programs. Document and analyze test cases to maintain a library of test plans and training materials for each system/subsystem of the software products. Collaborate with software project managers and engineers to define, document, analyze, perform, and interpret tests for products, systems, components, or modifications. Investigate and resolve operational problems in conjunction with other engineering and technical personnel.

Establish and ensure testing procedures and strategies that follow required industry specific standards.

**Supervisory Responsibilities:** Supervise 1-4 testers/test engineers.

**Success Factors:** Strong ability to coordinate and lead testing efforts of multiple testers across a diverse range of products. Take a creative approach to finding new ways to test software. Collaborate with software project managers, developers, and engineers on test designs and the interpretation of test results. Strong verbal and written communication, organizational, and planning skills. Excellent problem solving skills and ability to multi-task. Able to plan the workload of a project across a team.

### **Minimum Qualifications / Education:**

- B.S. degree in Computer science or related technical field, or equivalent experience and training.
- 3-5 years of white box and/or black box testing of device control software and or embedded software products.
- 1-3 years team lead/management experience.
- Demonstrated understanding of QA methodology – test plans, test cycles, and product releases.
- Demonstrated ability to design, coordinate, and lead test plan development and execution.
- Demonstrated ability to produce clear, detailed documentation of testing process steps and results including testing context, steps to reproduce, anomalous inputs and/or outputs.





- Experienced in analyzing and managing test coverage, producing project/product specific test plans.
- Ability to collaborate with product developers and other departments on testing ideas and strategies.
- Self-starter requiring minimal oversight and direction.
- Experience testing regulated devices in a regulated environment.

**Additional Preferred Qualifications/Education:**

- Well versed with Functional Testing, Regression Testing, Integration Testing, System Testing, and User Acceptance Testing.
- Experience with automated tools, experience with *Ranorex* automated testing suite a plus.
- Experience converting manual testing processes to automated testing processes.
- Experience with cybersecurity testing and regulations.
- Experience testing devices in IVDD, IVDR, ISO9001, ISO13485 environment.
- M.S. degree in Computer science or related technical field.

**Computer Skills:** Proficient in MS Word, Excel, Outlook. Proficient working with Windows-based instrument control software applications working with external hardware/medical equipment. Experience working with defect management software tools, experience with *AzureDevOps* a plus.

**Work Environment:** Office.

**Physical Requirements:** Must be able to meet National Institute for Occupational Safety & Health (NIOSH) Standards.

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