



Job Description

Title: Senior Quality Assurance / Software System Test Engineer

Department: Echologics – R&D

Reports to: V.P. R&D and Operations

Job Objective: Quality Assurance and System Testing for Smart Leak Detection products.

Toronto-based Echologics Engineering Inc. is a leader in the development of acoustic technologies that can cost-effectively detect leaks and assess the condition of water mains—without breaking ground. A subsidiary of Mueller Water Products, Echologics has worked with municipalities across North America, and in Europe, South Africa, Singapore and Australia to prioritize water system repairs and improve water conservation.

The Senior Quality Assurance/System Test Engineer is highly motivated, proactive, detail oriented, and possesses strong communication skills. The successful candidate possesses a professional demeanor and ability to work very closely with all cross functional and remote organizations ensuring that the entire Quality Assurance and System Test phase is well orchestrated.

Responsible for creating and executing comprehensive formal test plans to ensure thorough testing of new products, system capabilities, and/or software features. Adept at test automation/script writing and knowledge of contemporary tools to reduce test cycles will be required. Ability to work very closely with engineering, marketing, and all cross functional organizations ensuring the entire development and product life cycles are obtained.

Responsibilities:

- Create and execute comprehensive test plans for product as well as system verification.
- Add valuable insight to the development process, including release and requirement documentation reviews.
- Develop and execute manual and automated test suites.
- Drive and help to establish best practices and testing processes to ensure successful new product developments as measured by timeliness and quality.
- Ability to work closely with hardware, software, firmware, and technical acoustical experts to assist in research, test, and development of host based acoustical analysis software and DSP based algorithms.
- Testing all aspects of system including acoustic leak detection and algorithms, data networking and communications and user interface/network management.
- Ability to help develop, set up, and manage test environments encompassing water distribution infrastructure and/or techniques utilized for monitoring pipes or similar industry experience desirable.
- May provide tier 2/3 customer support when required and ensure timely, accurate, and complete resolution of customer reported items or questions to enhance customer satisfaction.
- Willingness / ability to travel both domestic and international. Estimated up to 10%.
- Other duties as assigned.
- Adheres to all company policies, procedures and business ethics codes.

Job Specifications:

- 5-10 years directly applicable Quality Assurance and System Integration experience,
- Successful candidate must possess test automation skills and experience.

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- Working knowledge of some or all of the following quality assurance methods: unit, integration, regression, and user interface testing.
- Experience to determine if test automation should use commercial tools and/or custom scripts coupled with the ability to develop automated custom QA solutions.
- Familiarity with QA tools and techniques, bug tracking systems, test design and execution, test case management tools.
- Able to multitask and adapt quickly to changing priorities. Constant focus on delivering high quality and on-time results.
- Working knowledge of data networking and communications protocols especially as applied to radio networks and WAN (wide area networks) is desirable. Knowledge of cellular data networking and associated protocols desirable.
- Knowledge of water transmission and distribution infrastructure and techniques utilized for monitoring pipes or similar industry experience desirable.
- Strong documentation skills and proficient with typical PC office applications, including MS Project.
- SQL data base knowledge and experience with software configuration management is desirable.

Education

- BS degree in CS, CE, or EE or equivalent.