



Location: Houston, Texas
Job Type: Regular / Full Time, Exempt
Reports to the Lead Software Engineer

Software Quality Assurance Engineer II

1st Detect, a fast growing spin-off company developing next generation, miniaturized chemical detectors (mass spectrometers) is seeking a Software Quality Assurance Engineer II specializing in user experience testing. The Software QA Engineer II will support the software development team by ensuring a consistent and error-free experience across multiple applications including desktop, portable and web interfaces.

- **Minimum Required Qualifications:**
 - Bachelor's degree in Engineering, Computer Science or related field and 4 years professional experience preferably in a hands-on Quality Assurance Engineer role.
 - Ability to creatively and efficiently plan, organize and execute independent verification and validation of product functionality or similar test types and report results.
 - Must have a strong attention to detail.
 - Strong manual and automated testing skills.
 - Hands-on experience with C, C++ and scripting experience with languages such as JavaScript / Python / Pearl.
 - Experience using various QA tools such as TestRail, Jira, Squish, Bugzilla.
 - Experience with source and build management tools such as Jenkins, Git, SVN.
 - Candidate must be a U.S. citizen.
- **Principle Responsibilities will be:**
 - Plans, creates, maintains and executes detailed test plans, and scripts for verification of, but not limited to, software functionality, load, and performance.
 - Generates and maintains test data and the test environment.
 - Reads, understands and correctly interprets business and technical requirements. Develops scripts to test these requirements. Suggests changes to ensure accuracy of documented requirements. Participates in reviews of technical documentation, such as user manuals and suggests improvements and tests incorporated procedures.
 - Hands on testing of software, FW and instrument interaction.
 - Develops a thorough understanding of the functionality of PC, application SW, FW and Mass Spectrometer interactions.
 - Participates in defining test automation strategy and applying appropriate automation technologies to meet the short and long term quality goals. Responsible for developing and maintaining test automation frameworks, solutions and automated test.
 - Responsible for using established test methodologies and processes. Evaluates test processes and procedures and makes recommendations for improvement.
 - Performs investigative testing on customer and other issues as required.
 - Documents test processes, test plans, test cases, configurations and results.
 - Participates in code reviews.
- **Desirable Experience:**
 - General understanding of communication protocols (Ethernet, MODBUS, Profibus, DeviceNet, Serial, I2C, SPI).
 - Lap equipment (Oscilloscopes, spectrum analyzers, multi-meters, etc.).
 - Strong understanding of mathematics (statistics, failure rates, extrapolation, interpolation, etc.).
- **The ideal candidate will be:**
 - Able to deliver quality work under a tight schedule.
 - Able to solve design problems independently.

- A motivated self-starter that is able to assume responsibility for tasks with minimal supervision or direction.
- Excellent analytical skills and communication skills.
- Willing to think 'outside the box' and able to assume tasks, projects, and duties outside of their 'comfort zone'.
- Motivated to work as part of a team.
- Willingness to contribute as a developer in addition to primary duties.

1st Detect revolutionizes the chemical detection market by leveraging the analytical performance of a mass spectrometer, in a transportable instrument. The instrument is capable of satisfying the chemical detection requirements for a variety of markets, including industrial, food and agricultural, security, and defense. As a part of the 1st Detect team, you will have the opportunity to develop and expand your career, while interacting first hand in a group of talented and dedicated engineers and scientists.

EOE M/F/Disability/Veteran

Apply at www.1stdetect.com (careers tab)