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**Job Title:** Software Quality Assurance Engineer

**Location:** Oklahoma City, Oklahoma

**Position Overview:**

This position will be essential in ensuring that Long Wave’s customers receive high-quality, high-end software solutions. As a Software Quality Engineer, you will be responsible for maintaining and enhancing the overall quality of Long Wave’s products, ensuring they meet established standards, contractual requirements, and regulatory guidelines. You will also ensure the product’s quality aligns with key criteria such as reliability, performance, and customer satisfaction. Strong analytical and problem-solving skills are essential to effectively document, analyze, and report on findings after conducting thorough inspections and testing of the product.

**Key Responsibilities:**

* Review requirements, specifications, and technical design documents to provide timely and actionable feedback on software design, schedules, and potential issues.
* Create detailed, comprehensive, and well-structured test plans and test cases to ensure thorough coverage.
* Estimate, prioritize, plan, and coordinate testing activities to align with project timelines and goals.
* Identify, document, and track bugs, ensuring thorough reporting and clear communication of defects.
* Perform regression testing to validate bug fixes and ensure that changes haven’t introduced new issues.
* Develop and apply effective testing processes for both new and existing products to meet customer expectations.
* Collaborate with internal teams (e.g., developers, program and product managers) to identify system requirements and resolve potential issues.
* Monitor debugging processes and provide feedback to developers and stakeholders regarding defect resolution and software quality.
* Manage the conformity and corrective action processes for nonconforming software, and recommend improvements to enhance usability and functionality.
* Stay current with the latest testing tools, methodologies, and best practices to optimize testing efficiency.
* During software deployment, be ready to perform on-call build verification testing to ensure a smooth launch.

**Work Conditions:**

This position requires on-site work in a 9-80 office environment. Occasional on-call duties may be required, along with travel to various locations where specific attire may be necessary.

**Qualifications:**

* Bachelor's degree in Computer Science, Computer Engineering or a related field.
* 3-5 years of experience in software quality engineering, preferably within the Aerospace or Defense industry.
* Strong understanding of quality assurance principles, methodologies, and best practices, including statistical methods and SPC techniques.
* Proven experience in software development, testing, SDLC, and software quality assurance processes.
* In-depth knowledge of software QA testing tools, methodologies, processes, and best practices.
* Experience in writing clear, concise, and comprehensive test plans and test cases.
* Hands-on experience with both white box and black box testing methodologies.
* Practical experience with automated testing tools and frameworks.
* Solid knowledge of SQL and scripting languages.
* Proficient in Linux and Microsoft Windows environments.
* Experience working within an Agile/Scrum development process.
* Ability to obtain and maintain security clearance is required.
* US Citizenship is required.

**Preferred Qualifications:**

* Certified Software Quality Engineer (CSQE) or a similar certification.
* Experience with GitHub, Cucumber, TestNG, database testing, and performance testing tools (e.g., JMeter).
* Familiarity with Quality Management Systems (QMS) and tools.
* Proficiency in programming languages such as Java, Python, SQL, C++, and XML.
* Experience with performance and/or security testing.
* Familiarity with Lean Product Development and Six Sigma methodologies.
* Active security clearance.

**Salary Information:**

Salary will be based on factors such as experience, education, and qualifications within the Aerospace and Defense industry.

**Application Process:**

Interested candidates are invited to submit their resume and a cover letter detailing their relevant experience and qualifications. Please include specific examples of past work that demonstrate your expertise in quality engineering within the Aerospace and Defense industry.

**Equal Opportunity Employer:**

We are an equal opportunity employer and value diversity at our company. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status.