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**Long Wave Inc. Position Description**

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| **Date:** | **December 26, 2024** |
| **Position Title:** | **Software Architect** |
| **Department:** | **LW-SimTEC / Oklahoma City, OK** |

**Position Overview:** As a Software Architect you will lead software engineering teams to design scalable, modular C# architectures, modernize research codebases, and deliver reliable, high- performance solutions. Drive innovation in software systems, ensure adherence to best practices, and represent the company at technical forums, fostering collaboration and excellence in Agile and DevSecOps environments.

**Essential Responsibilities:**

* Provide technical leadership for a team of software engineers.
* Architect and develop software infrastructure using C# to modernize and productionize a research codebase.
* Design software systems, applications, and architectures to enhance modularity, scalability, and reliability, while maintaining precision, accuracy, and performance.
* Ensure adherence to industry best practices and standards in software engineering.
* Apply research and development skills to create real-world products and capabilities beyond academic or theoretical concepts.
* Present ideas to internal and external groups, lead proposal activities, and represent the company at technical conferences and working groups.

**Basic Qualifications:**

* Bachelor's degree in a STEM discipline with 12+ years of relevant experience; Master's degree with 10+ years of relevant experience; or PhD with 8+ years of relevant experience. An additional 4 years of experience may be considered in lieu of a degree.
* Active Secret clearance
* Ability to meet customer-specific security screening requirements within a set timeframe.
* Willingness and ability to work onsite full-time.
* Experience with C# programming.
* Demonstrated experience with open software/system architecture solutions.
* At least 1 year of experience leading tasks to completion on schedule and within budget.
* At least 1 year of experience successfully leading teams through the entire development lifecycle.
* Proven ability to present complex topics to management and other stakeholders.
* Effective communication and interpersonal skills, with the ability to collaborate with diverse stakeholders.
* Experience with Git-based or other software configuration management tools.
* Discipline to document every requirement’s traceability and report any gaps.

**Preferred Qualifications:**

* Active Top-Secret clearance.
* Ability to develop and maintain a strategic product roadmap, aligning software engineering best practices with business objectives.
* Experience defining technical strategies to modernize and productionize research code.
* Experience with model-based system engineering tools (e.g., Cameo).
* Experience with containerization technologies (e.g., Docker, Kubernetes).
* Experience with Linux operating systems.
* Experience in high-performance numerical/scientific computing and parallel computing.
* Experience developing for SWaP-constrained environments.
* Familiarity with Agile lifecycle processes, including Scrum, Continuous Integration, and DevSecOps.
* Familiarity of training data in LRS/LMS solutions.