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**Long Wave Inc. Position Description**

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| **Date:** | **February 25, 2025** |
| **Position Title:** | **Software Engineer** |
| **Department:** | **LW-SimTEC / Oklahoma City, OK** |

**About Long Wave Inc.**

Long Wave Inc. is a rapidly growing engineering company specializing in training, simulation, and mission-critical solutions. Our team develops cutting-edge technologies that enhance operational readiness, improve system performance, and ensure mission success. As we expand, we are seeking Software Engineers at all experience levels to help develop, maintain, and optimize high-fidelity simulation environments for mission-critical applications.

**Position Overview:** As a Software Engineer at Long Wave Inc., you will be part of an agile team responsible for developing and maintaining simulation environments and infrastructure used for training, system validation, and mission-critical applications. Your role will involve creating realistic models and simulation frameworks, ensuring seamless integration, and optimizing performance to support real-world operational requirements.

**Essential Responsibilities:**

* Design, develop, and maintain **simulation models, virtual environments, and frameworks** to support training and mission-critical solutions.
* Work closely with stakeholders to **define simulation requirements and system dynamics**.
* Develop and integrate **data-driven models** for performance evaluation, training effectiveness, and mission support.
* Validate and verify simulation software by executing **test procedures, analyzing results, and benchmarking against real-world data**.
* Document and maintain **technical code, algorithms, and specifications** for simulation models.
* Collaborate with **cross-functional engineering teams** to ensure seamless integration of simulation software with hardware components.
* Implement **modern simulation technologies, tools, and frameworks** to enhance mission readiness and operational effectiveness.
* Support the **modernization and migration of legacy simulation systems** to new platforms and architectures.
* Apply **agile software development practices**, ensuring adaptability and continuous improvement.

**Qualifications:**

We are hiring **software engineers at all levels**. Candidates should meet **one or more** of the following criteria:

* **Bachelor’s degree** in **Computer Science, Engineering, Physics, Mathematics, or a related field** with relevant experience.
* **Associate degree or military training** with **equivalent work experience** in software development or simulation.
* **Extensive hands-on experience** in software development, modeling, or simulation in lieu of a formal degree.

**Basic Skills (Required for All Levels)**

* Experience in **software development, simulation modeling, or a related field**.
* Proficiency in one or more programming languages: **C#, C, C++, Python, Java, Unity3D**.
* Strong problem-solving skills with an **ability to work in an agile, fast-paced environment**.
* Ability to work both independently and collaboratively in a **cross-disciplinary engineering team**.
* Knowledge of **software integration, validation, and performance optimization**.

**Preferred Skills (Depending on Experience Level)**

* Experience developing **embedded real-time software**.
* Familiarity with **DevOps practices, CI/CD pipelines, and microservices architecture**.
* Knowledge of **networking, IT infrastructure, and system integration**.
* Experience with **agile methodologies** and working within **Scrum teams**.
* Passion for **continuous learning, innovation, and simulation technology advancements**.

**Why Join Long Wave Inc.?**

* **Opportunity to work on cutting-edge training, simulation, and mission-critical solutions** in a growing organization.
* Competitive salary and **comprehensive benefits package**.
* Career growth opportunities at **all experience levels** in a **fast-paced and innovative industry**.