Document Information

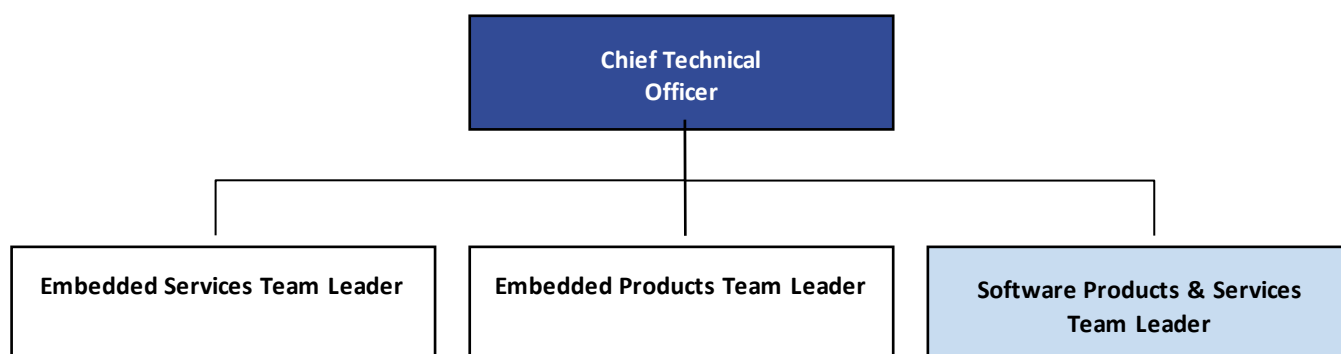| Team	Software Products & Services
Position	Quality Assurance Engineer
Contact Person	Alan McKee (alan.mckee@simulity.com)

Role

The role of the Quality Assurance Engineer includes the following tasks.

- **Developing in-house quality procedures, standards, and specifications**.

- **Creating and executing end-to-end test plans** to ensure quality of all software.

- **Stress, performance, functional, and scalability testing** for all software products & services.

- **Maintaining effective communication** with software engineers.

Reporting

Our technical department in structured in three technical teams as described in the below chart.

The Quality Assurance Engineer reports to the **Software Products & Services Team Leader**.

Location

The Quality Assurance Engineer position is open in our Northern Ireland office located at the following address:

Arthur House, 41 Arthur Street, Belfast, BT1 4GB.

However, candidates must be aware that they may be required to travel from time to time to our customer's locations for short-term on-site missions.

Responsibilities

Responsibility	Description
Developing in-house quality procedures, standards, and specifications	• Review existing documentation to ensure that current methods are correct, concise, and can be authenticated. • Work with other testing teams to create quality control documentation that will be followed throughout the company. • Design test coverage plans.
Creating and executing end-to-end test plans	• Create or enhance the existing test plans for the Tools and the Server software products to ensure that all software is performing to the best possible standard prior to release. • Execute the test plans and develop effective feedback methods.
Stress, performance, functional, and scalability testing	• Testing our Server products using stress and scalability testing to ensure that our products can be released on a large scale. • Performance and functional testing of both the Server and the Tools products. This includes black box testing and white box testing. • Monitoring products post-release.
Maintaining effective communication	• Daily interactions with software engineers for the products and services. • Recommend improvements or corrections to software engineers throughout the development process.

Requirements

Requirement	Description
Education	BSc. / MSc. in an Information Technology discipline.
Skills	General Desirable Requirements ▪ Experience in identifying and debugging complex problems in distributed server environments ▪ Ability to understand detailed specifications & communicate technical problems/ideas effectively ▪ Experience creating and executing test plans from Functional Specifications/Acceptance Criteria ▪ Understanding of JVM and knowledge of JDK tools ▪ Experience of scripting (e.g. Bash/Perl/Shell/Python) ▪ Experience of CI / build automation frameworks such as Bamboo/Jenkins ▪ Broad knowledge of Linux/Unix ▪ Knowledge of networking, IP, UDP/TCP and trace tools such as Wireshark/TcpDump ▪ Bug-tracking tools such as JIRA ▪ Experience of web services using SOAP, WSDL, etc. ▪ Experience of Rest Interfaces & Json. ▪ Working knowledge of SQL/NoSQL databases, ORMs ▪ Source Control (git) Specific Desirable requirements ▪ Experience of GSM/SIM/SmartCard protocols (GSMA, GlobalPlatform) ▪ Hardware Security Modules ▪ Encryption standards ▪ Async/Event-driven programming or frameworks such as Vertx/Netty ▪ Performance testing/performance monitoring tools ▪ SMPP/SMS ▪ Hazelcast, Docker, Spring
Experience	▪ Preferably 2+ years of experience
Abilities	▪ Excellent analytical skills. ▪ Tenacious with a problem-solving approach ▪ Organised, rigorous and autonomous with an eye for details ▪ Ability to evolve in a small and multi-disciplinary team