Job Title	Senior Software Systems Engineer
Location	Bathgate, Scotland
Reports to	Software Engineering Team Leader

Job Purpose

The Software Engineering team is responsible for the successful deployment of control and monitoring of Invinity's energy storage systems across all projects undergoing implementation at customer sites globally. This will enable customers and Invinity to remotely control our battery energy storage systems and upload operations and performance data to our data logging system. Based on initial requirements agreed with the Systems Architects, the Software team engages with the full software lifecycle from: requirements capture; through implementation and testing; to deployment and ongoing maintenance. As a key member of the Software Engineering team, you will therefore help us shape the future of our energy storage technology, ensuring our machines' control strategies and performance in the field are reliable across the 25-year service life.

Responsibilities

- Collaborate on the design and development of our new software platform for the combined Invinity networked solution and future generations of the product range

- Actively engaged in the creation of a cloud database solution so that our assets report telemetry directly to our dashboards. This will enable our commercial, engineering and maintenance teams monitor the health and performance of our storage systems. This will lead to the development of a machines running/AI preventative maintenance system

- Implement a structured process for the software development lifecycle and align this with the company drive for ISO9001 accreditation

- Support projects in the field by: shadowing support calls; self-teaching on relevant equipment, development platforms, protocols and procedures; reviewing customer control schemes and specifications; and modifying software and hardware to suit

- Spot opportunities and propose continuous improvement to the value add of the Software Engineering team

- Help maintain a cohesive team through shared problem solving and open team discussions

Requirements

- Knowledge and experience of data logging systems using cloud databases (e.g. Microsoft Azure) IoT for remote monitoring and device simulation (and/or similar cloud-based data storage systems)

- 5+ years of experience in PLC or industrial PC programming and fundamental knowledge of control systems

- A good command and understanding of the characteristics of a variety of different communication protocols, e.g. Modbus, CANbus, VPN, cyber security

- Ability to review control schemes and specifications, and implement/modify Invinity software to meet the requirements

- Familiar with whole lifecycle of system development from requirements capture to execution