

Job Title: Web Development Engineer	Location: Hunmanby / Mansfield
Department: Controls and Automation Engineering	Contract: Permanent
Reports To: Software Supervisor	Direct Reports: N/A

1.0 Job Summary & Role

Working as an individual and as part of a team; the successful Web Development Engineer will be proficient with PHP, and other web-based languages such as JavaScript, HTML and CSS. A strong communicator, this Web Development Engineer will excel at requirements capture, design, development and verification.

The primary development you will be involved in is around DSEs remote telemetry system (DSE WebNet). In addition, there will be a number of ancillary tools and business systems that require development, as well as occasional IT support.

The company's products operate in the energy control and automation markets and are designed to provide energy throughout a wide range of forms such as generator sets, renewables, microgrid as well as off-highway machinery.

The successful software engineer will be keen to be involved in all development areas, you should have a proven track record in both problem solving and standards compliant, quality focused software development.

You will be required to follow all existing processes and working practices, contributing suggestions to their improvement.

Working as part of a multidisciplinary team, the successful software engineer will have good communication skills and a can-do attitude. A genuine passion for innovative technology will be advantageous. This opportunity will enable the successful candidate to gain valuable knowledge of industrial controls and best design practices.

2.0 Key Responsibilities & Main Duties

- Work at project inception to capture requirements for software development
- Ensure software reliability, standards, safety and security objectives are all met
- Increase knowledge of power generation, control and automation system applications
- Produce professional documentation as a key part of the full development lifecycle
- Develop software in a range of languages and platforms including JavaScript, HTML and PHP
- With a focus on IoT protocols and technologies, remain up to date with the latest technologies and make suggestions on how these can be used



JOB DESCRIPTION & PERSON SPECIFICATION



- Be open and innovate in the use of new programming platforms and tools.
- Work with marketing to design and implement modern user interfaces and experiences.
- Review software and designs with regards to coding standards and best practice
- Diligent use of the company version control systems, demonstrating excellent version control discipline
- Support software deliveries through test, production and commercial deployment.

3.0 Internal & External Relationships

The Web Development Engineer will work closely with both internal and external customers including but not limited to Engineering management, Test and Approvals, Technical support and commercial sales.

The Web Development Engineer will be required to periodically visit alternate business sites for training, information transfer and team cohesion. There may also on occasion be a requirement to visit customer sites.

4.0 Key Performance Indicators

- Successful delivery of professional and quality software solutions that meet business's needs.
- Ability to work both individually or as part of a team
- Deliver solutions to estimated timescales.
- Have good communication skills to both technical colleagues and managers alike.
- Strive for personal growth as a professional software engineer.
- Grow application knowledge for industrial control systems.

5.0 Essential/Desirable Factors

Knowledge	
<p>Essential:</p> <ul style="list-style-type: none"> • HTML, PHP, JavaScript, CSS, MySQL • API programming (JSON) • Proficient user of Git for source control management • Understanding of IoT technologies, protocols such as MQTT and edge devices 	<p>Desirable:</p> <ul style="list-style-type: none"> • Background in electrical systems, knowledge of the power generation industry • Familiar with PHP socket daemons and stream wrappers • Proficient in MySQL sharding, replication, and partitioning • Experienced in MySQL configuration and performance tuning
Skills & Attributes	
<p>Essential:</p>	<p>Desirable:</p> <ul style="list-style-type: none"> • React Native for Android and iOS



JOB DESCRIPTION & PERSON SPECIFICATION



<ul style="list-style-type: none"> • Excellent team player with collaborative problem solving and trouble-shooting capabilities. • Accustomed to breaking down tasks for more accurate estimates of effort. • Used to work in a high-pace environment • Enthusiastic and optimistic 	
Experience	
<p>Essential:</p> <ul style="list-style-type: none"> • Understanding of networking in a high availability environment • Hypervisor setup, configuration, and management (vSphere/ESXi) • Linux server setup and health monitoring (CentOS/Rocky Linux or other RedHat based distro) 	<p>Desirable:</p> <ul style="list-style-type: none"> • Experience with server hardware and physical cabling
Qualifications	
<p>Essential:</p> <ul style="list-style-type: none"> • Bachelor of Science in IT/Software Engineering or equivalent 	<p>Desirable:</p> <ul style="list-style-type: none"> • Master of Science

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