CAMPBELL SCIENTIFIC JOB DESCRIPTION

ROLE NAME:	Software Engineer	Aviation Weather (AvWx)
Reporting To:	AvWx Portfolio Owner / Director of Software Engineering

1. Role Description

The software engineer is skilled in C++ and proficient in working in both Windows and Linux environments. The software engineer has a working knowledge of Typescript and the fundamentals of client and server web technologies. The software engineer creates highly reliable products for the Aviation Weather market in a collaborative team atmosphere. This software has very strict requirements for stability, accuracy, and autonomy and requires the highest degree of reliability. The software engineer continually seeks to develop expertise regarding the standards and practices of Aviation Weather.

2. Main Responsibilities

It is expected that within this role, the Software Engineer will undertake the following duties:

- Design and implement software components that fit into our Aviation software suite.
- Implement internal test code to ensure that the software is reliable and stable.
- Document and present designs and deliverables for stakeholders and peers
- Evaluate customer feedback and research options.
- Any other duties as required by the company commensurate with the role and required skills.

3. Personal Specification

Technical Skills and Competencies	Essential	Desirable
Proficient with Git, Jira, C++, JavaScript, Node.js, Vue.js, TypeScript, NPM	x	
Proficient with Windows development tools (Visual Studio)	x	
Experience with Linux development tools (Clang/GCC)	x	
Experience with Client-Server architecture	x	
Works effectively in an agile development environment using scrum	x	
Demonstrated ability to work with customer requirements to produce usable designs and implementations	x	
An excellent communicator, both written and verbal	x	
Good understanding of software development methodologies	x	
Effective with C++ templates		x
Experience with redundant server architecture		x
Experience with Jenkins build and test environment		x

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Knowledge of HTTP(S) and TLS security management		x
Experience with hardware components that can work over TCP/IP and or Serial Lines.		x
Experience with virtual machines		x
Experience in delivering solutions for transportation weather, particularly aviation		x
Experience in working with remote development teams		x
Experience in working with instrumentation and instrument communication protocols		x
Experience in working with communication and networking protocols		x
Ability to read and interpret data (in different formats such as binary and hexadecimal) on different computer communication ports (com ports, IP Ports, etc)	x	
Have a 'can-do' and positive attitude and is innovative and creative in searching for better ways to do things	x	
Experience as working as part of a team with shared responsibilities and targets	x	
Hold a full clean UK driving license	x	
Hold an EU Passport and have the rights to work in the UK	x	
Have experience of delivering projects or pieces of work to customers within an agreed time frame	x	

Qualifications	Essential	Desirable
Formal education to a degree standard in Computer Science or equivalent computing field	x	
3+ years of work experience in software development	x	
Experience in an Agile Scrum environment using JIRA		x

Work environment: General office environment, extensive use of PC, occasional customer site visits where CS products are or will be installed.

Travel requirements: Domestic and international travel up to 3 weeks per year

Compensation: Compensation is commensurate with education and experience.