

JOB DESCRIPTION

Job Title: Software Design Engineer
Purpose of Job: PPM is expanding its product portfolio so is strengthening and extending its Shrivvenham based development team.
Location: Swindon
Reporting to: Development Team Lead

Role:

PPM is designing an innovative new range of RF, microwave, and optical solutions for SatCom, cellular, and defence applications. This role offers the chance to join a collaborative and engaging working environment, where knowledge sharing is actively encouraged; allowing all developer disciplines to gain skills over a range of different technologies. Working closely with system architects and IT operations as part of an agile design and development team, you will have the opportunity to develop, deploy, and operate a variety of systems, seeing designs from initial concept through to customer delivery.

It is **essential** the candidate can evidence experience with most of the following:

- AWS, vSphere, and Proxmox VE deployment and administration
- Continuous integration & delivery (CI/CD) tools i.e. Jenkins, Gitlab, and Bamboo
- The application of containerisation tools such as Docker
- Object oriented and high-level programming languages i.e. as C++, Java, Python
- Embedded Linux build systems i.e. Yocto, PTXdist
- TCP/IP networking, including DNS routing, VPN, and firewalls
- Configuration and manipulation of data within SQL servers

The successful candidate will demonstrate excellent interpersonal and team communication skills, have high ethical standards, and take personal accountability. They will have a proactive and innovative approach to developing technical solutions to complex customer problems, and have a passion for developing high quality software solutions.

It is **desirable** the candidate has knowledge of:

- Agile development methodology and task management tools i.e. Tuleap, Jira
- component-based coding frameworks for heterogeneous platforms i.e. OpenCPI, OpenCL
- developing code for hardware, middleware, and application layers

Person:

The successful candidate will work within a multi-disciplined engineering team and will be expected to use their own interpersonal skills to draw upon existing internal expertise, from product designers, mechanical engineers, software developers, photonics experts, and system design specialists. They will also present a confident and collaborative interface when dealing with colleagues, sub-contractors, and suppliers, through either written or verbal communications.

In addition to meeting customer's needs, solutions will be required to exceed the company's documented quality standards and be delivered within agreed timescales and budgets. The successful candidate will be capable of applying themselves to multiple development projects simultaneously and be comfortable responding to changing business priorities as they arise.

Responsibilities will include:

- A wide range of DevOps practices for SW infrastructure projects
- Developing and compiling code for new open architecture software products
- Assisting with requirements analysis and project definition
- Software-hardware integration testing

Required behaviours:

- *Creativity and innovation* – Possessing a passion for driving continuous improvement by spotting opportunities and seeking the views of others
- *Keeping Commitments* – You demonstrate a can-do attitude and you drive to complete tasks and projects and report that they are completed, even when other opportunities arise which appear to be more interesting
- *Collaboration and Communication* – ability to develop relationships with colleagues outside your department built on mutual trust, respect and drive for sharing and success
- *Impact and influence* – You listen to different perspectives, evaluate, persuade and carefully shape your work to deliver excellent results
- *Teaching and Sharing* – You share what you know with others and seek to learn from the vast pool of knowledge in others at PPM
- *Company Focus* – Put the needs of the company first before your team needs, drive to achieve the goals of the company as well as your own team