

Principal Systems Engineer

Job ID	89242
Location	Devon
Tenure	Permanent / full time
Job Category	Systems Engineering
Salary Band	£45,000 - £65,000 plus car allowance, pension scheme
Education	Degree / Phd
Department Description	The systems team is responsible for requirements capture, analysis and system design for new point to point wireless products.

The successful candidate will have a strong background in development (RF, hardware, software), have experience of working with wireless technologies, be analytical, precise and communicate well.

Scope of Responsibilities/Expectations

The successful applicant will be responsible for requirements capture, analysis and system design for new point to point wireless products. In this role, he/she will work with product management, hardware and software developers, system verification, and external development partners.

Specific Knowledge/Skills

The applicant should have a background working as part of a development team, ideally in point-to-point, point-to-multipoint, or cellular wireless. We are willing to consider exceptional applicants with development experience from other technologies.

The applicant must be able to demonstrate:

- Excellent analytic and problem-solving ability based on an understanding of the engineering fundamentals
- Effective verbal and written communication skills
- Careful attention to accuracy and detail
- Flexible approach to working in a team
- Innovative approach to product design
- Thorough understanding of system architecture for at least two different wireless technologies
- Experience in several of the following areas:
 - Architecture of RF transceivers
 - Antennas, propagation, interference and network planning
 - Wireless physical layer including adaptive modulation and automatic power control
 - Dynamic frequency selection and radar avoidance
 - Telecoms regulatory environment
 - MAC protocol design for wireless systems
 - Ethernet transmission, bridging, networks, quality of service
 - Synchronous Ethernet, IEEE 1588
 - TDM transmission
 - Internet protocols
 - Security, encryption and authentication
 - Network management including SNMP MIBs
- Use of widely available engineering tools (including high-level languages and Matlab) to solve a range of engineering problems