

## Radio Planning Technician

### Context

The Joint Radio Company Limited (JRC) is an industry-owned independent provider of products and services, including consultancy, relating to (radio) spectrum management, spectrum utilisation and radio network design and security. Services include radio link planning, windfarm coordination, legacy & future data & voice radio network planning and spectrum licensing. The current focus is to support the UK Electricity & Gas sectors which are going through a period of profound change as a result of the UK's net zero ambitions.

### Overview of the role:

As part of JRC's drive for enhanced operational performance & delivery in the context of a rapidly changing environment, the Radio Planning Technician's role is to support the engineering team in undertaking all aspects of our radio network design and technical investigation activities. Reporting to the Chief Operating Officer (COO) and working with the engineering team and external consultants as required, you will take a key role in delivering JRC's technical solutions and radio network designs in support of our Members' needs.

### Principal responsibilities of the role:

- The management of general, regulatory and windfarm enquiries via JRC's ticketing system.
- The analysis of the impact of windfarms on our Members' infrastructure, coordination and engineering support.
- Offer advice on possible co-ordination options and mitigation actions according to JRC methodology.
- Contribute to studies of potential interactions between wind farms and new radio systems to predict interference scenarios as required.
- Working with colleagues as appropriate, undertake radio planning / network design across different technologies to meet customer requirements
- Liaison with JRC members and other customers to develop their requirements in relation to the radio system design, including contribution to the writing of technical specifications and assisting with procurement of the final solution.
- Provide technical advice to utilities on telecommunications and technology.
- Discussions with manufacturers and equipment providers to understand equipment capabilities and advise utilities appropriately.
- Assisting with the investigation of interference to any JRC Members' radio system.

- Maintain and update JRC radio and license systems and databases ensuring data quality is upheld.
- Assist with the overhaul and refresh of key databases and content as required
- Undertake project work as required, where a radio planning or field engineering specialist is required, assisting in proposal preparation and overall project management.
- Produce technical reports by understanding user requirements, assimilating the output of the technical analyses and interpreting them in the context of utility operations.
- Ensure all project and BAU work complies with internal technical, QA and project management processes, proposing process improvements where required.

The radio systems with which the Radio Engineer will mainly be involved comprise of Private Mobile Radio (PMR), Scanning Telemetry (ST), Microwave Links (uW) and other specialist radio systems. Whilst a broader knowledge / understanding of latest technologies, e.g. LTE & DMR, would be advantageous.

#### Required skills and experience:

- An HND in engineering or similar or equivalent experience.
- Experience of radio planning either in a work or personal setting would be an advantage
- A demonstrable interest in radio such as amateur radio, community radio broadcast or similar is desirable.
- One year of experience in a utility, energy sector, telecommunications engineering role or similar.
- Fundamental analytical and conceptual thinking skills and be able to explain difficult concepts to non-technical users
- Excellent time management and self-organisation skills with the ability to work effectively to tight timescales and under pressure/stressful situations.
- Highly organised with the ability to multi-task and with strong work management and prioritising skills
- Ability to work as part of a team, as well as independently and on their own initiative
- Displays excellent relationship, influencing and all-round communication skills.
- Tenacious, flexible, passionate, resilient and results driven with a persuasive personality.
- A quality driven approach consistently aiming for high standards. Diligent with attention to detail.
- Good questioning skills with the confidence to challenge and probe.

- Good communication skills, with the ability to produce high quality written documentation and select the content, style, format and distribution methods most appropriate to the audience
- Experience using computers for a variety of tasks, with a high degree of competency in Microsoft applications such as Word, Excel, Visio, Outlook and Access and other database tools.
- Knowledge of file management, transcription, and other administrative procedures.
- A track record of following through on commitments.
- Demonstrated experience in handling large data sets and relational databases.

Since JRC is a small company, the Radio Planning Technician will have the opportunity to contribute to all aspects of JRC strategy and policy to the maximum extent that his or her experience allows.

Training in the systems and methodologies that JRC uses will be provided.

#### Location

- The role will be home based with collaboration meetings as appropriate with colleagues plus potential visits to members and suppliers' locations as required by the role. Locations are dispersed across the UK, and occasionally travel outside of the UK may be necessary.
- Home working is now the standard within JRC, however some elements of the work require collaboration to ensure exchange of ideas and the sharing of workloads specific to projects and hence some flexibility is required in terms of attending meetings for co-working with colleagues.