



Job Description

Job Title: Projects Engineer - Telecommunications engineer

Division: Energy, Telecommunications

Location: Oxford, United Kingdom

Salary: £37,694- £46,049 dependent upon experience

Employment Type: Full-time, 37.5 hours per week

Contract: Fixed-term

Duration: 5 years

Reporting To: Managing Director / Senior Engineering Consultant

Job Context

MARRWELL Ltd currently operates across the energy and healthcare sectors, delivering multidisciplinary consultancy and project-based solutions. Within the energy sector, the company provides specialist consultancy services to the oil and gas industry and works closely with upstream organisations, including ENI, to support the planning, development, and delivery of technical projects. In the healthcare sector, MARRWELL Ltd is developing innovative health-related projects aimed at improving access to healthcare services and reducing waiting times within the NHS.

As the scope and technical complexity of our energy and healthcare projects continue to evolve, there is an increasing need to integrate telecommunications, electrical engineering, and digital technologies into our project activities. The effective application of these disciplines is essential to strengthening our technical capabilities, improving data acquisition and communication, and supporting the development of reliable, technology-enabled solutions. To address this growing need and enhance the delivery of multidisciplinary projects, MARRWELL Ltd is seeking to appoint a Project Engineer with expertise in telecommunications and electrical engineering.

Job Profile

About the Role

We are seeking to appoint a highly capable and experienced Senior Telecommunications and Project Engineer to join our multidisciplinary team. This is a key position within the business, combining technical engineering expertise with structured project planning, coordination, and delivery across our energy and healthcare projects.

The successful candidate will be expected to support the development and delivery of multidisciplinary engineering projects, while also contributing specialist knowledge in digital communications, signal processing, data analysis, algorithm development, and technical analysis. The role is particularly suited to a professional with strong experience in telecommunications systems, wireless technologies, coding techniques, and software-based engineering development using MATLAB, C/C++, and Python.

In addition, the postholder will contribute to the evaluation and progression of FPGA-oriented implementation approaches for communication and signal-processing algorithms, as well as the application of Machine Learning methods to telecommunications and related engineering challenges.



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Key Duties and Responsibilities

- Lead, coordinate, and support the planning and delivery of telecommunications and multidisciplinary engineering projects from initiation and technical scoping through to implementation and completion.
 - Prepare and maintain project schedules, technical plans, budgets, progress reports, and engineering documentation to support effective project governance and delivery.
 - Liaise effectively with clients, contractors, suppliers, consultants, and internal teams to ensure successful project delivery.
 - Undertake engineering reviews, feasibility assessments, technical evaluations, and risk-based analysis to inform project planning and engineering decisions.
 - Support the design, implementation, testing, and optimisation of digital communication and signal-processing algorithms.
 - Contribute technical expertise to projects involving wireless communications, modem assessment, coding techniques, and associated infrastructure.
 - Investigate and apply Machine Learning techniques to relevant telecommunications and signal-recognition problems.
 - Support the translation of algorithmic solutions into FPGA-oriented or hardware-aware implementation strategies, particularly where real-time performance is required.
- Monitor project progress against programme, budget, quality, and technical requirements.
- Produce accurate and professional technical reports, status updates, and client-facing deliverables.
 - Provide technical guidance and support to internal teams and external partners.
 - Ensure all engineering and project activities are undertaken in compliance with relevant standards, regulatory expectations, health and safety obligations, company policies, and client specifications.



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Person Specification

This table lists the essential and desirable requirements needed in order to perform the job effectively. Candidates will be shortlisted based on the extent to which they meet these requirements.

Requirements		Essential / Desirable	How Assessed
Education	An MSc degree in Telecommunications Engineering, Electronic Engineering, Computer Engineering, or a closely related discipline	E	A
	A PhD degree (or very close near completion) in Telecommunications Engineering or a closely related discipline	D	A
Knowledge, Skills and Experience	Robust theoretical foundation and practical experience in telecommunications and signal processing	E	A, I
	Knowledge of modern performance evaluation, wireless communication systems, and link-level analysis	E	A, I
	Excellent skills in algorithm modelling, simulation, and machine learning using MATLAB, C/C++, and Python	E	A, OM
	Excellent problem-solving and analytical skills	E	A, I
	Familiarity with translating DSP or communications algorithms into FPGA-based or hardware-oriented implementation approaches	E	A, OM
	Hands-on experience with advanced telecommunications algorithms, including DVB-S2, Viterbi decoding, and Turbo Product Codes (TPC)	E	A, OM
	Experience working with sensor signal conditioning, filtering, and digitisation technologies	E	A, I
	Experience in infrastructure industry	D	A, I
Management	Experience in project planning, scheduling, budgeting, reporting, and risk management	E	A, I
	Excellent time management skills, including the ability to work effectively under pressure within the context of a team and meet deadlines	E	A, I
	Excellent interpersonal skills, including the ability to build relationships with key stakeholders	E	A, I
Communication	Excellent written and verbal communication skills	E	A, I
	Ability to work independently as well as part of a team	E	A, I
	Previous experience of contributing to peer-reviewed and high-quality publications	D	A
	Previous experience in mentoring junior engineers, delivering technical training, or academic teaching	D	A

Essential/Desirable:

E = Essential: Requirements without which the job could not be done.

D = Desirable: Requirements that would enable the candidate to perform the job well.

How Assessed:

A = Application
test, etc.)

I = Interview

OM = Other Means (e.g. presentation,



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What We Offer

- The opportunity to work in a multidisciplinary engineering environment and on technically challenging and strategically important engineering projects
- A professional and collaborative working culture
- Competitive remuneration commensurate with skills and experience
- Employees enjoy 28 days' paid holiday

We are committed to equality, diversity and inclusion at every level because we believe a diverse workforce benefits us all. We will consider all candidates on the basis of skills, experience, and suitability for the role.

How to apply

You will be required to send a CV and a supporting statement to darrel.axten@marrwell.co.uk. The Supporting Statement should include a cover letter and should also clearly describe how you meet each of the selection criteria listed in the job description. As part of your application, you will be asked to provide details of two referees and indicate whether we can contact them now.