

Electrical Design Engineer - Rail

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Company: Egis

Location: United Kingdom

Category: architecture-and-engineering

General information

Organisation

Egis is an international player active in the consulting, construction engineering and mobility service sectors.

We design and operate intelligent infrastructure and buildings capable of responding to the climate emergency and helping to achieve more balanced, sustainable and resilient territorial development.

With operations in countries, Egis places the expertise of its 18, employees at the disposal of its clients and develops cutting-edge innovation accessible to all projects.

Improving people's quality of life and supporting communities in their social and economic development, whilst drastically reducing carbon emissions and achieving vital net zero targets, that's our purpose.

Reference

Position description

Job title

Electrical Design Engineer - Rail

Contract type

Permanent contract

Business Line specific context

Egis is a global consulting and engineering firm working in construction, transport and

mobility services. Joining our Group and its 18, employees means, above all, sharing our values as a people-first company, strongly committed to sustainability and innovation.

In the UK, we are delivering some of the most iconic projects which help connect people, protect our environment and meet emission reduction targets. We work in the transport and energy sectors, providing consultancy, engineering and operations services for clients such as major airports, governments, regulators, cities and rail and road operators.

With over 50 years of experience in the rail industry, we've delivered complex and challenging multidisciplinary projects all over the world. Our expertise extends to depots, operations, maintenance analytics and asset management across all aspects of rail, including transport, technical and sustainability assessments and systems infrastructure.

About the role

We are seeking a highly skilled and motivated Electrical Design Engineer. The ideal candidate must possess railway knowledge, with experience in both single and multidisciplinary projects related to traction power, earthing and bonding and track plant and equipment.

This role may also include working on projects internationally for Egis, including travel within the UK and Ireland. The role can be based in our London or Birmingham office on a hybrid basis.

You must have the right to work in the UK

Job description

Duties & responsibilities

As a design engineer, responsibilities include developing electrical fixed plant designs, calculations, reports, specifications, schematic, and layout drawings for railway projects. The candidate must ensure compliance with industry standards, regulations, and client specifications, implementing quality control measures to guarantee the accuracy, reliability, and safety of electrical designs.

Collaboration with multidisciplinary teams, project managers, and engineering managers is crucial for integrating electrical systems with other railway infrastructure elements. This includes but is not limited to track systems, signalling systems, telecommunication networks, and civil engineering. The candidate will also be involved in integrating new electrical designs with existing or modified railway systems.

Collaborate, converse, and actively participate in meetings with project managers, contractors, and other stakeholders to address design-related challenges and provide

technical support to junior engineers.

The candidate should be capable of independently resolving routine design issues and applying knowledge/training to complex tasks with minimal supervision. Efficiently managing work and coordinating electrical design aspects of railway projects to ensure timely delivery and adherence to budget constraints are essential.

This position is suitable for a Design Engineer currently working in the railway industry or a Project/ construction Engineer seeking to transition from assurance/ construction to design.

Qualifications, Skills, Experience & Attributes

Bachelor's degree in Electrical Engineering or a related field, or a number of years of design, construction or assurance experience in railway electrical engineering.

Chartered Engineer or working towards Chartership.

Preferred: Proficiency in CAD software for electrical design (MicroStation or AutoCAD).

Preferred: Proficiency in electrical software for electrical design (Amtech (Trimble), Etap, CYMCAP, CDEGS).

Preferred:

Proficiency in AC and DC traction systems, previous experience as a design CEM/CRE

Strong knowledge of relevant industry standards and regulations.

Excellent problem-solving and analytical skills.

Effective communication and collaboration abilities.

Profile

What's in it for you

By joining Egis, as well as receiving a competitive salary, you'll also have the opportunity to explore flexible working arrangements.

27 days annual leave on top of bank holidays

Annual Bonus, depending on level

Private medical insurance For you and your family

Life Assurance Bereavement Support Service

Cycle to work Scheme

Eye Care Vouchers with Specsavers

Travel Loans

Mobile Phone Allowance

Healthcare Individual or family based on employee level

Workplace Nursery Scheme

Electric Car Scheme

Training & Development

We are committed to our planet

In each project we design, engineer and operate we care deeply about the legacy we're leaving behind. As part of our team, you'll have a unique opportunity to use your skills and expertise to shape a better future for our communities in the UK, and all around the globe. Our commitment is translated in the work carried out by our Egis Foundation, which funds concrete actions to address the climate crisis and is focused on educational and social initiatives that will help in the responsible and sustainable shift towards a sustainable world.

Equality, Diversity & Inclusion

We at EGIS are an Equal Opportunities employer and we recognise the value of a Diverse Organisation. EGIS appreciates all job applications. If you decide to apply for an opportunity at EGIS, your application will be assessed based purely on your experience, the essential and desirable criteria, and your suitability for the role. We value each and everyone's contribution as this builds our culture and means, if you work for EGIS, you will be included, listened to, and respected.

Position location

Job location

Europe, United Kingdom

City

London or Birmingham

Candidate criteria

Minimum level of education required

4-Bachelor of Arts / Bachelor of Science

Minimum level of experience required

6-10 years

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