

Mechanical & Electrical Design Manager

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Company: Balfour Beatty

Location: United Kingdom

Category: architecture-and-engineering

About the role

Balfour Beatty Highways maintain, manage and operate major highway networks across the UK and support local authorities creating communities where people want to live work and play.

Our **Balfour Beatty Highways** business has a terrific opportunity for a **Mechanical & Electrical Design Manager** as part of the Connect Plus Services (CPS) team based in **South Mimms, Leatherhead or Dartford**(preferable).

As a Mechanical & Electrical Design Manager, you will be responsible for the management and provision of cost-effective design solutions to maintain or improve the M25 structures assets (tunnels) to the standards agreed. This will involve reviewing, leading and managing mechanical and electrical systems design undertaken by external consultants. You will need to ensure that we deliver the outcomes agreed with National Highways to programme and budget, and to meet Connect Plus Services (CPS) quality standards.

What you'll be doing

Monitor, review and check deliverables from external designers to ensure that designs are complete and compliant prior to submission to National Highways through the Review Process.

Manage external framework design suppliers to deliver agreed outcomes, scope, on time and to budget.

Assist the wider Design Team in various M&E Improvement Schemes.

Manage internal design resources within Design Team to deliver agreed outcomes, scope, on time and to budget.

Lead and supervise the in-house design of selected M&E packages.

Undertake and manage optioneering and feasibility of design solutions and preparation of whole life costing.

Preparation and review of contract documentation.

Work with the Connect Plus Services (CPS) Asset Team to agree achievable Asset Management Forward Plans.

Develop and agree briefs with the design team and design suppliers, to cover scope, budget and programme, and to obtain agreement from Asset head for the same.

Prepare and submit instructions to design suppliers.

Manage and advise on the Design Review Process (Certification) in accordance with the DBFO contract.

Ensure that all designs meet the quality standards required by the DBFO contract and CPS internal standards.

Work with the Project Manager to lead the internal reviews during the design phase to ensure that they are timely and appropriate sign off is achieved.

Provide professional and technical leadership and mentoring in M&E.

Manage design team and supplier costs and budget and review supplier invoices for payment when required.

Liaise with National Highways on technical issues and submissions.

Liaise internally with other teams within Connect Plus (CP) and CPS as required.

Liaise with all statutory bodies/authorities as required such as Highway Authorities, Planning Authorities and statutory undertakers.

Report to the project manager on performance against budget and programme.

Lead innovation and continual improvement in the delivery of schemes and techniques used in design and construction.

Support the development of in-house design capability and continuous improvement of processes and deliverables.

Ensure that learning and best practice is captured from the project with the aim of sharing it across the business.

Manage and support design of related schemes, including M&E Improvements.

Live the Connect Plus Services Values.

Ensure a relentless focus on Zero Harm, and Safety by Design.

Ensure the Principal Designer and delegated duties are met under CDM.

Support the delivery of the business Sustainability activities.

Attend relevant community Forums to represent the Engineering Design team.

Who we're looking for

Relevant vocational qualifications (MEng/MSc/BEng/BSc/HNC and HND).

Membership of an appropriate professional institution (IET or IMechE).

Alternatively registered with the Engineering Council working towards IEng or CEng level or with good relevant experience and expecting to obtain IEng/CEng within 12 months from appointment.

40 hours of CPD in last 12 months including 20 related to M&E.

Competent in M&E Design and Assessment.

Knowledge of CDM and other H&S legislation.

Competent in exercising the Designers duties and the Principal Designer duties under CDM.

Broad understanding of environmental requirements of M&E schemes.

Broad knowledge of Quality Management and IMS.

Excellent IT Skills relevant to Mechanical & Electrical Design and Microsoft Office is essential.

Knowledge of design and assessment standards (DMRB / MCHW / IEC / 18th Edition IET Requirements for Electrical Installations (C&G 2382) etc.) relevant to M&E.

Personal attributes:

Good Communication skills

Project management and team building skills.

Ability to develop relationships and engender trust at all levels of the Connect Plus Services organisation and with Clients.

Why work for us

CPS is a Joint Venture project with Balfour Beatty, AtkinsRalis, and Egis. We operate and maintain the M25. The M25 is the busiest section of motorway in Europe and requires careful and efficient planning of work in order to deliver over 100m of annual investment in the highway infrastructure each year, in addition to planned and reactive maintenance activity.

If you have or are looking for a career in Highways, working on the M25 will give you experience and challenge that no other Highways project can offer.

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