

Job Description – Electrical Design Engineer



Based in our design office in Sheffield, South Yorkshire – will include some travel across the UK / ROI



Negotiable dependent on candidate and relevant experience



Reporting to the senior design manager



Mon to Thurs 08:30 to 17:00 and Fri 08:30 to 16:00 – with half an hour for lunch.

WHO WE ARE

Smith Brothers Ltd is a large, turnkey electrical contractor with 20 years' experience. Since our inception in 1999, we've worked on a vast portfolio of projects throughout the UK and overseas, both as an ICP and EPC contractor on projects up to 132kV.

Whether we're working on a high or low voltage distribution system, a simple assignment or a complex turnkey project, we have varied and in-depth expertise at our fingertips. Our team is made up of highly-trained electrical engineers, jointers, wiremen and fitters – not to mention back-office staff including estimators and project coordinators.

We're now looking to bolster our in-house expertise with the appointment of an **electrical design engineer**.

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ROLE INFORMATION

The successful candidate will undertake general electrical design activities, including the production of technical project reports, plus detailed specifications for power system components such as transformers, high voltage switchgear and cable systems.

They will also assist with network modelling and simulation, as well as the coordination and production of design approval packages, alongside management of the design approval process with the UK DNOs, including UK Power Networks, Western Power Distribution and private network operators such as United Utilities and Yorkshire Water.

The day-to-day role will include:

- Coordinating project requirements at design stage with our civil, electrical, protection and control designers
- Producing specifications for high voltage switchboards, circuit breakers and power transformers from 11kV to 132kV
- Undertaking the detailed design to power cable systems from 11kV to 132kV
- Compiling in-depth, technical reports to accompany design approval submissions – explaining the operation of the proposed connection arrangement in a clear and concise voice
- Conducting 'volts and amps' network analysis
- Ensuring the law is always complied with – particularly in relation to the Health & Safety at Work Act, Electricity at Work, ESQCR and CDM Regulations.

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QUALIFICATIONS, SKILLS AND ATTRIBUTES

- Relevant, demonstrable industry experience is essential
- Degree / HNC / HND or equivalent in a relevant discipline, plus IOSH Managing Safely in Construction is desirable

Smith Brothers (Contracting) Ltd. • Unit G8, Navigation Close • Lowfields Business Park • Elland • HX5 9HB
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- Working knowledge of the plant and systems utilised on electrical infrastructure projects covering substations (secondary distribution up to 132kV), underground cable installations and overhead lines up to and including 132kV.

In addition to:

- Understanding of the standards and specifications used within the industry
- A detailed knowledge of how power systems are constructed, operated, maintained and decommissioned
- Awareness of power cable construction and installation methodologies, alongside substation plant
- Experience of design and construction methodologies for wood pole overhead lines up to 132kV and 66kV / 132kV steel lattice towers
- Working knowledge of the CDM Regulations 2015, in relation to the role of the designer
- Existing electrical design experience regarding DNO networks operating up to 132kV
- Demonstrable ability to quickly acquire technical knowledge for changing technological advancements in energy service provisions
- Understanding of appropriate UK legislation and standards
- Corporate membership of the IET and working towards IEng or CEng status
- The ability to take on an outline project scope document, review and translate into detailed design requirements
- Providing mentoring to junior engineers
- Proficient in the use of Microsoft Office applications and proprietary CAD systems, i.e. AutoCAD / Bentley MicroStation
- Capable of prioritising workloads in line with business and client expectations
- Flexible and adaptable when it comes to problem-solving – particularly if faced with unexpected challenges

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IN RETURN

As well as a competitive salary, we offer the following additional benefits:

- Ongoing professional development and training
- Pension contribution
- Life insurance
- Private health insurance
- 25 days annual leave – plus bank holidays

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HOW TO APPLY

If you think you have what it takes to join our dynamic team, please send your CV to michelle@smithbrothersltd.co.uk. No agencies please.

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