

Job Description – Primary electrical and earthing design engineer



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



Negotiable dependant 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 a **primary electrical and earthing design engineer**.

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ROLE INFORMATION

The successful candidate will undertake earthing system and electrical design activities for power cable systems, overhead structures, substations, and electrical plant layouts – up to and including 132kV.

Clients will include Independent Connection Providers (ICP), private network connections, United Utilities, Yorkshire Water, as well as Distribution Network Operators (DNO) such as UK Power Networks, Western Power Distribution, Northern Powergrid, and private network operators. The successful candidate will:

- Coordinate project requirements at design stage with civil, electrical, protection and control designers
- Undertake earthing design – including soil resistivity surveys and modelling of earthing systems using CDEGS
- Produce detailed reports and designs, as well as undertake post-construction fall of potential testing
- Undertake the detailed design of power cable route layouts, trench sections and joint bays
- Calculate thermal ratings and cable pulling tensions
- Provide substation plant and earthing layouts – up to and including 132kV
- Provide multicore cable layouts and cable containment designs
- Carry out the design and specification of bus bar and plant support structures
- Heating, lighting and ventilation design to switch and control rooms – along with the necessary calculations to prove requirements from first principles
- Ensure legal compliance with regards to the Health and Safety at Work Act, Electricity at Work, ESQCR and CDM regulations.

Smith Brothers (Contracting) Ltd. • Unit G8, Navigation Close • Lowfields Business Park • Elland • HX5 9HB
T: 0333 3583 653 • www.smithbrothersltd.co.uk • VAT Reg. No. 722 0566 62 Company Reg. No. 3738927



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QUALIFICATIONS, SKILLS AND ATTRIBUTES

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

In addition to:

- A detailed understanding of how power systems are constructed, operated, maintained and decommissioned
- Knowledge of power cable construction and installation methodologies
- Awareness of substation electrical plant and equipment
- Expertise relating to standards and specifications used within the industry
- Demonstrable primary electrical design and earthing design experience – particularly with regards to DNO and private networks, operating up to 132kV
- The ability to take an outline project scope document and understand how it translates into detailed design requirements
- Proficient in the use of AutoCAD and CDEGS earthing design software
- 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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