

Job Description – Earthing Systems 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 **earthing systems electrical design engineer**.

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ROLE INFORMATION

The successful candidate will undertake earthing system surveys and design, alongside power cable, overhead structure, substation plant and layout design up to and including 132kV. Clients will include Independent / Private Network Connections (ICP) and UK DNO’s including UK Power Networks, Western Power Distribution, Northern Power grid and private network operators.

The role will include:

- Coordinating project requirements at design stage with our civil, electrical, protection and control designers
- Undertaking power system earthing design – from initial site surveys, to detailed modelling and the preparation of a physical site earthing layout
- Overseeing soil resistivity surveys and post-construction fall of potential tests
- Ensuring legal compliance, 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 is desirable
- 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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- An excellent working knowledge of the plant and systems utilised on electrical infrastructure projects covering substations (secondary distribution up to 132kV), underground cable installations up to and including 132kV and overhead lines up to and including 132kV.

In addition to:

- Understanding of how power systems are constructed, operated, maintained and decommissioned
- Knowledge around the design and construction of earthing systems
- Experience with power cable construction and installation methodologies
- Proficient in design and construction techniques surrounding 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
- Primary electrical design experience with regards to DNO networks operating up to 132kV
- The ability to quickly acquire technical knowledge for changing advancements in energy service provisions
- Awareness of the appropriate UK legislation and standards
- Membership of the IET and working towards IEng or CEng status
- The ability to take on an outline project scope document, review and understand how it translates into detailed design requirements
- Willingness to provide mentoring to junior engineers
- Proficient in the use 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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