

## Job Description – Civil and Structural 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 civil 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 **civil and structural design engineer**.

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### ROLE INFORMATION

The successful candidate will undertake substation civil and structural design up to and including 132kV. Clients include Independent / Private Network Connections (ICP), United Utilities, Yorkshire Water and UK DNO's such as UK Power Networks, Western Power Distribution and Northern Power Grid.

*The role will include:*

- Coordinating project requirements at design stage with our civil, electrical, protection and control designers
- Interpreting geotechnical surveys and undertaking structural calculations from first principles
- Carrying out structural and temporary works design, alongside associated calculations
- Foundation design, including reinforced concrete
- Design of substation buildings, access roadways, security fencing systems, surface and foul drainage systems
- Ensure legal compliance: including 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
- 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.

Smith Brothers (Contracting) Ltd. • Unit G8, Navigation Close • Lowfields Business Park • Elland • HX5 9HB  
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*In addition to:*

- Understanding of the standards and specifications used within the industry
- A detailed understanding of how power systems are constructed, operated, maintained and decommissioned
- Working knowledge of the CDM Regulations 2015, in relation to the role of the designer
- Existing civil and structural 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 ICE and working towards CEng status
- The ability to take on an outline project scope document, review and appreciate how this translates into the detailed design requirements
- Providing mentoring to junior engineers
- Have an excellent working knowledge of Microsoft Office applications
- Proficient in the use of proprietary CAD systems, i.e. AutoCAD / 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](mailto:michelle@smithbrothersltd.co.uk).

No agencies please.

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