

# Protection and control design engineer



We're looking for a motivated and experienced protection and control (P&C) design engineer to undertake system specification and design up to and including 132kV for private / Independent Network Connections (ICP) and UK DNO's including UK Power Networks, Western Power Distribution and Northern Power Grid.

## Role profile

Reporting to the senior design manager, the successful applicant will coordinate project requirements at design stage with our civil and electrical designers. They will also take responsibility for:

- Protection and control designs up to and including 132kV
- Detailed Relay specification/CORTEC codes
- Relay panel design – GA's/schematic diagrams
- Detailed switchgear specifications
- SCADA I/O schedules.
- Mechanical and electrical interlocking
- Multicore schedules, block diagrams etc.

The successful applicant will have relevant, demonstrable industry experience as well as a detailed understanding of how power systems are constructed, operated, maintained and decommissioned.

### They should also have:

- Working knowledge of the CDM Regulations 2015 relating to the role of the designer
- Existing P&C design experience with regard to DNO networks operating up to 132kV
- Demonstrate ability to quickly acquire technical knowledge for changing technological advancements in energy service provisions.
- Working knowledge of the appropriate UK legislation and standards
- Corporate membership to the IET and be working towards IEng or CEng status
- The ability to take an outline project scope document, review and understand how this translates in to the detailed design requirements.



# Skills and qualifications

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## Qualifications:

- Degree / HNC / HND or equivalent in a relevant discipline is desirable.
- IOSH Managing Safely in Construction is desirable.

## In addition to:

- Proficiency in interfacing old equipment with new
- The ability to ensure compliance with the law, including Health & Safety at Work Act, Electricity at Work, ESQCR and CDM Regulations
- An excellent working knowledge of the plant and protection systems utilised on electrical infrastructure projects covering substations (secondary distribution up to 132kV)
- An understanding of the types of protection and control systems in operation – and their application
- Understanding of the standards and specifications used within the industry.
- A flexible approach to overcoming difficulties
- Confidence in mentoring junior engineers
- The ability to analyse, take ownership and solve problems
- Working knowledge of Microsoft Office applications
- Being fully proficient in the use of proprietary CAD systems, i.e. AutoCAD / MicroStation
- Keen to build and maintain strong external relationships.
- Excellent interpersonal and time management skills.

## In return

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As well as a competitive and attractive salary – proportionate to the knowledge and experience of the candidate – we offer the following additional benefits:

- Ongoing professional development and training
- Pension contribution
- Private health and life insurance
- Fully expensed company vehicle and fuel card, or car allowance
- 25 days annual leave plus bank holidays.

## How to apply

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If you feel you possess the above skills, qualifications and attributes, and would like a confidential discussion with us, please call us or send your CV to [richard.furniss@smithbrothersltd.co.uk](mailto:richard.furniss@smithbrothersltd.co.uk). All applicants must have the right to work in the UK.

IRISH HQ  
**DUBLIN**

HEAD OFFICE  
**ELLAND**

DESIGN TEAM  
**SHEFFIELD**

## Who are we?

Smith Brothers Ltd is a large, turnkey electrical contractor with over 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 believe in a flexible working culture, with options to work from home as well as at the company's offices in Elland or Sheffield.

