



<i>Job Title</i>	<i>Job Ref. No.</i>	<i>Location</i>
EHV Substation Design Engineer	R4262	Castleford
<i>Grade</i>	<i>Salary</i>	<i>Closing Date</i>
Technical Level B	£43,693 - £59,751	24th September 2021

Position

An exciting opportunity has arisen for an enthusiastic EHV Substation Design Engineer to join our Field Operations Department.

At Northern Powergrid, our vision is to be the best energy company in serving our 3.9 million homes, whilst delivering a sustainable energy solution. As a dedicated EHV Substation Design Engineer you will be an integral part of achieving this, while always striving to keep our customers power flowing. The EHV Substation Design Engineer role will support the design of a range of EHV projects including both AIS & GIS substations at voltages ranging from 11kV – 132kV.

We're excited to hear from dedicated current employees with a passion for the company and a desire to succeed. Apply now and we'll be in touch!

Key Responsibilities

- This role will involve the design of EHV substations across full project life cycle, from feasibility studies to detailed construction designs. The role is focused on primary plant but knowledge of secondary systems design will be an advantage.
- Visit EHV substations to establish the existing site layout, produce as-built drawings, assess project requirements, and then produce detailed design drawings for all aspects from 11kV switch rooms up to 132kV compound layouts
- Attend site meetings and provide ongoing design drawings changes / support as required during project build.
- The ability to design EHV substations with CAD systems and use of the NPG document control system
- Undertake the role of 'Designer' under the CDM regulations and production of a designers risk assessment for each project.
- Review designs produced by Independent connection providers.
- Engineering support for Independent connection providers.
- On completion of projects, conduct a review and failures, non-conformance and preventable problems
- Review drawings and designs produced by manufacturers and contractors.
- Produce standard drawings.

Key Competencies

- Proven experience in the design of both AIS & GIS substations up to 132kV
- Knowledge of engineering standards for EHV Plant, substations (Including earthing and electrical clearances)
- An ability to interpret technical documentation relating to the design of electrical substations



- An ability to understand and prepare primary plant design calculations including busbar force calculations essential for the design of AIS electrical substations
- Ability to manage and prioritise work to ensure project timescales are met
- Strong team working culture
- An ability to work flexibly across a broad range of substation projects
- Possess good problem solving skills and an ability to make decisions relating to the production of substation designs
- The necessary background experience and technical knowledge to attain Competent Person status as defined in the Company's Distribution Safety Rules to facilitate personal access to the Company's operational sites
- Ability to make decisions and own the various design aspects of a project from beginning to end.
- Willingness to learn, research and develop knowledge and specialise in certain areas as required.

Qualifications & Attributes

Essential Qualifications and Experience

- HNC in Electrical Engineering (or equivalent)
- Current driving license and passport
- Knowledge of Standards associated with EHV substation design
- Ability to work as part of a team and individually to enable effective delivery of project requirements

Desirable Qualifications and Experience

- Degree in Electrical or Mechanical Engineering
- NEBOSH or equivalent formal qualification in safety management
- Knowledge of EHV power systems, safety procedures and engineering requirements
- Knowledge of civil engineering aspects of substation construction
- Power system protection experience
- Proficient with CAD drawing software Bentley Microstation or Autocad.

Additional Information

ALL APPLICATIONS WELCOME

Please visit our careers website to download an application form and return to us quoting reference number R4262. Please note any applications received without the application form will not be progressed.

– Make sure this is included when advertising externally

Applications are invited from people with appropriate experience and qualifications. Applicants are considered on the basis of their suitability for the post irrespective of sex, marriage and civil partnership, sexual orientation, gender re-assignment, race, age, disability, religion or belief and pregnancy and maternity. Northern Powergrid recruits on ability and ability alone.