

TRAINEE TRANSMISSION & DISTRIBUTION DESIGN ENGINEER (SUBSTATIONS) ROLE SPECIFICATION



BACKGROUND

The Customer Delivery Directorate is responsible for the delivery of NIE Network's Capital Investment Programme and Customer Connections. It is also responsible for the maintenance of NIE Networks existing Substation and Overhead Line Assets and responding to fault and emergency situations.

The Primary Plant & Protection Design Department plays a key role in the delivery of the NIE Network's Capital Investment Programme and major Customer Connections through the design, costing and and procurement for transmission and distribution substation projects.

To help facilitate the new connections and network investment required for NetZero, we are seeking a new engineer to expand a vibrant and dynamic substations design team.

THE ROLE

Based at our newly refurbished Dargan office in Belfast, the successful candidate will report to the Primary Plant & Protection Design Manager.

The successful candidate will be responsible for producing detailed designs of substation primary, protection, control and auxiliary systems in association with CAD technicians and providing technical assistance to other areas of the business.

The successful candidate may be required to work under the mentorship of other design engineers within the department for a period of up to 5 years, depending on their skills, experience and development potential.

There will be a requirement to travel to other NIE Networks and Contractor sites from time to time.

MAIN DUTIES & RESPONSIBILITIES

- Produce project design files, including all the necessary electrical drawings (Layouts & Elevations, SLDs, Schedules, schematics & wiring diagrams), for transmission and/or distribution substation projects from 6.6kV – 33kV.
- Play an active role as a member of a project team (including other design engineers, project engineers, commissioning engineers and electricians).
- Perform the duties of Designer (and/or Principle Designer for non-notifiable projects) under CDM Regulations (2016).
- Compile Project Design Quotes (PDQs) to assist in obtaining project financial approvals. This includes obtaining specialist costs from other Design Engineers, Construction staff and external suppliers/contractors as required.
- Assist with the setting up procurement framework agreements for materials and services including; defining the scope, compiling the selection and award criteria, undertaking technical assessments & participating in factory acceptance testing (FAT).
- Be responsible for requisitioning project equipment and services in line with project programmes.

THE INDIVIDUAL

Essential Criteria

It is essential that the successful candidate meets the following requirements:

- HNC/HND/Degree or equivalent in Electrical / Electronic Engineering or other relevant subject.
- Demonstrable experience working with complex electrical control circuits and schemes.
- A practical knowledge of large-scale electrical construction or refurbishment projects and their end to end processes.
- Working knowledge of power engineering principles.

- Sound IT skills including working knowledge of Microsoft Office systems.
- Current driving licence (valid in UK).

Desirable Criteria

It would be advantageous if you have any of the following:

- Experience in **electricity substation** construction projects
- Knowledge or experience working with the following:
 - Substation HV plant & equipment.
 - Substation protection and control & auxiliary systems.
 - NIE Networks or similar HV Safety Rules
- Previous experience designing or commissioning substation protection & control schemes.
- Previous experience of CDM (NI) roles & duties.
- An understanding of logic programming of protection relays or PLCs.

CORE COMPETENCIES

The successful candidate must be able to demonstrate a proven track record of high levels of performance, successful outcomes, personal motivation, a proactive and positive attitude and the ability to address issues with a sense of urgency.

Analysis / Problem solving

Able to identify and separate out the key components of problems and situations. Able to manipulate and interpret information from a range of sources, to spot patterns and trends in information and to deduce cause and effect from this. Can generate a range of creative solutions, evaluate them and choose the most appropriate option.

Attention to Detail

Ability to process detailed information effectively and consistently. The ability to accomplish/complete a task while demonstrating a thorough concern for all the areas involved, no matter how small. This means monitoring and checking work or information, while organising time and resources efficiently.

Communication

Able to communicate information and ideas clearly and articulately both in oral and written form. Uses appropriate language, style and methods depending on audience and the purpose of communication. Able to convey complex information clearly. Anticipates the information that others will need.

Flexibility / Adaptability

Has actively sought to learn new things on own initiative. Has responded positively to change and adapted to new situations quickly. Able to take on a diverse range of tasks equally effectively.

Initiative

The ability to be pro-active and use initiative. Self driven and willing to learn.

Team Work

Actively participates in team. Encourages co-operation. Aware of the needs of others and responds flexibly. Shares information and supports other team members. Can get things done through others and set realistic objectives. Seeks opportunities to develop others. Prioritises team goals over individual goals.

THE PACKAGE

The competitive remuneration package for this position will be based on the skills and experience of the successful candidate, with progression opportunities.

The company also offers many other [benefits](#). (The QR code will take you to the benefits section of our website)



OUR PEOPLE MATTER

At NIE Networks we realise our employees are at the heart of our success and they are the future of an ever-changing energy industry. With employee wellbeing at the core of our approach, we are continually investing in our people and are committed to helping every individual reach their full potential through both professional and personal development. We believe in nurturing effective teams and high performing leaders to deliver the best possible service for our customers.

DISABILITY

NIE Networks will provide reasonable support to disabled applicants throughout the recruitment process. Applicants who may require special arrangements should identify this clearly within their application form to enable us to make any appropriate adjustments.

DIVERSITY AND INCLUSION

NIE Networks has achieved Silver, Diversity Mark Accreditation and is committed to equality of opportunity and acknowledges the unique contribution that all potential candidates can bring in terms of their education, ethnicity, race, gender, nationality, age, religion, disability, sexual orientation and opinions. Applications are positively welcomed from all backgrounds and appointments are made on merit following a fair, open and transparent selection process.

HOW TO APPLY

Please submit a CV and cover letter together (detailing alignment to the essential criteria) via the NIE Networks recruitment portal www.nienetworks.co.uk/jobs (The best experience of this portal will be through the [Google Chrome](#) internet browser or click on the QR code.)



- Once you are in the careers page select the Trainee Transmission & Distribution Design Engineer (Substations) role and click on **“Apply Now”**.
- You will initially be asked to create a “Candidate Area” by inputting your email address and a secure password – once you select “Create Candidate Area” you can then log in directly using these same details. The address that you register with will be the address that we contact you on.
- Select **“Apply for Vacancy”**
- Once you have created your profile upload both your CV and Cover Letter within your application.
- Please ensure to review your CV before submission as you will not have the opportunity to amend the CV once it has been submitted.
- You will receive an [email confirmation](#) once your CV and Cover Letter has been submitted (Please check your junk mail too).
- Late applications will not be accepted

Completed CV’s and cover letter must be submitted for the role no later than **11pm Sunday 1 June 2025**.

NIE Networks is committed to the principles of public appointments based on merit with independent assessment, openness and transparency of process

FOR YOUR INFORMATION

If you would like to view up to date information about NIE Networks please visit our website www.nienetworks.co.uk or scan the QR codes below.

About NIE Networks



About NIE Networks History



Or alternatively check out our social media platforms via the links provided on each graphic below.

