Electrical Design Engineering Internship
(GFCDE3010)

ESPA

APPLY HERE

THIS ON-SITE INTERNSHIP INCLUDES YOUR WORK PERMIT!

Application Deadline
24 November 2026

Start Date
Jan/Feb 2027

Duration
12 months

Location
Weston-Super-Mare
England

Benefits
- Certificate of sponsorship costs paid for
- A private room in a professional shared house, paid for, including Wi-Fi and utilities costs.
- Monthly payment towards living expenses.
- Commuting costs paid for

Role Description

This is an excellent opportunity for a student or recent graduate to join a leading UK ICP (Independent Connection Provider) within its Design Team. Mentored throughout, you will contribute to live engineering projects and develop practical experience in high-voltage electrical infrastructure design, gaining an understanding of the technical and regulatory considerations involved in substation design and how engineering designs progress from initial specification through to construction. The role covers substation design from 11kV to 132kV, with opportunities for construction site visits. You will gain exposure to a wide range of technical activities, including Primary Equipment Specification, Control Panel Schematics, Single Line Diagrams, Main Protection and Connection Diagrams, Cable Rating and Routing, Substation Layouts and Earthing Design. You will also have opportunities to develop your professional skills through interaction with clients and suppliers, learning how to communicate effectively with external stakeholders. **Apply today!**

Tasks

- Assist with the selection and specification of electrical equipment for HV substations.
- Prepare drawings showing cable routes and connections within substation installations.
- Assist with calculating cable ratings and assessing electrical cable capacity.
- Produce layout drawings showing the positioning of equipment and infrastructure.
- Develop diagrams illustrating electrical systems, circuits and connections.
- Assist in producing diagrams showing electrical connections and protection arrangements.
- Prepare control and protection circuit diagrams for substation panels.
- Assist with the design of low-voltage AC auxiliary power systems for substations.
- Visit construction sites to gain insight into substation installation and the application of engineering designs.

Desired Skills

- Working towards or recently graduated in Electrical Engineering or a closely related discipline.
- A strong interest in electrical power systems, energy infrastructure or high-voltage engineering.
- Good understanding of electrical engineering principles and circuit theory.
- Familiarity with electrical diagrams, circuit schematics or technical drawings.
- An interest in power distribution, substations and electrical network design.
- Basic knowledge of electrical protection systems would be advantageous.
- Good analytical and problem-solving skills.
- Well organised, with good attention to detail and a methodical approach to work
- Good written and verbal communication skills, with the confidence to work collaboratively within a technical team.
- Familiarity with CAD software or technical drawing tools would be beneficial.

The Host Company

The host is at the forefront of the energy transition to a zero-carbon electricity grid. An accredited Independent Connection Provider (ICP) allows them to design and build HV electricity networks at voltages up to 132,000 volts. They take each project from concept through detailed civil, electrical and mechanical design, construction, commissioning and finally handover to the client. They also act as Balance of Plant (BoP) or Engineering, Procurement and Construction (EPC) contractor for new-build renewable and energy storage projects sized between 5-100MW. They have become one of the leading companies specialising in this sector in the UK and are the go-to people for clients looking to connect complex schemes to the grid within challenging timescales. Last year they connected over 200MW of power generation to the grid and have a further 300MW in design and construction.

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