

## Job Description: Electrical Design Engineer

### The Company

Green Frog Connect is at the forefront of the energy transition to a zero-carbon electricity grid.

We are an accredited Independent Connection Provider (ICP), which allows us to design and build HV electricity networks at voltages up to 132,000 volts. We take each project from concept through detailed civil, electrical and mechanical design, construction, commissioning and finally handover to the client.

We 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. We 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. In the last year alone, we have connected over 200MW of power generation to the grid and have a further 200MW in design and construction.

The company is experiencing a high level of growth which we expect to continue for the foreseeable future as large scale, carbon-intensive power plants continue to be de-commissioned and high volumes of renewable and energy storage projects are brought online.

### The Role

We are looking for highly motivated people to join our team at this exciting time to grow and prosper within the company.

Reporting to the Head of Design, the Design/Tendering Engineer will assist the Design and Tendering Departments in producing electricity network designs and tender specifications for DNO contestable electrical connections and private networks up to and including a voltage level of 132kV.

### Main Duties

- Design of substations and underground cable circuits for network connections up to 132kV under the National Electricity Registration Scheme (NERS).
- Produce general arrangement drawings, cable routing drawings and cross-section drawings to aid the production of tenders and to obtain supplier and sub-contractor pricing.
- Prepare HV and LV equipment specifications.
- Produce required calculations.
- Assess client identified development sites and utilise desktop tools to identify any clear obstacles, engineering difficulties, and obstructions along proposed cable routes.
- Produce cable schedules, transformer specifications, HV switchgear specifications to allow pricing to be obtained from suppliers and sub-contractors.
- Liaise closely with the Senior Bid Manager, the design team, and directly with our clients to ensure a specification-compliant bids are submitted.

- Send RFQs to suppliers and sub-contractors for primary items and work packages whilst developing and maintaining relationships through feedback and collaboration. When required, identify and engage with new suppliers.
- Ensure that the engineering designs and specifications produced are fit for purpose, by meeting the legal and regulatory requirements for those designs intended for adoption by the DNO.
- Engage with clients, customers, suppliers, contractors, DNO's in a professional manner to acquire or impart sufficient information to ensure that safe and robust designs are completed in an economical, safe and timely manner that meets the required Health and Safety, Quality, Environmental and industry standards.
- Provide support to the Senior Design Engineer and Senior Bid Manager.
- Produce Designs, Programmes, Health and Safety Plans, etc., in line with the Tendering & Design Manual in good time to promptly construct the works by the Project Manager.

## Essential Skills & Qualifications

A technically minded individual with attention to detail. Able to work in a high-pressure environment, maintaining a composed approach to time-sensitive and demanding deadlines.

- Minimum of 3 – 5 years relevant industry experience
- GCSE Grade A-C (x5) including Maths, Physics/Science English Language
- HNC/HND/BEng with electrical engineering modules
- AUTOCAD proficiency - formal certificate is not required but will help
- Familiar with Amtech (or similar), Power Factory, Eracs
- Excellent spoken and written English language skills
- Proficient in Microsoft Office programs

## Experience

We believe that the right candidate will be adaptable and able to work across a broad range of technologies. Our current projects often include all aspects of Mechanical and Electrical installations, such as HV and LV installations; AC and DC wiring; Civils Contracting, including groundworks and construction of complex structures; HVAC; and Fire Suppression. The role has an electrical bias, but we would consider candidates that have relevant transferable skills.

## Salary and Benefits

- £25 - £40k starting salary depending on experience
- 15% bonus scheme
- 25 days holiday plus bank holidays
- Employer pension contributions
- Private medical insurance