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## Senior Electrical Engineer

We are looking for an experienced and motivated Senior Electrical Engineer to join our rapidly growing operations team, which typically operates embedded power projects comprising of reciprocating gas engine or battery storage plants between 2 - 10MWe at 11kV grid level, with a number of larger plants between 20 - 50 MWe at 33kV, 66kV and 132kV grid levels.

Reporting to the Operations Director, this senior role is responsible for the Control Operation and Maintenance Activities for all electrical plant and apparatus across the portfolio. The portfolio is split into two regions, each managed by a Regional Manager, the regions are organised into three Areas, with a number of sites lead by an Area Manager and a team of engineers.

The Senior Electrical Engineer is responsible for development of the groups electrical policies and electrical training strategy for all internal staff. The role is also responsible for all electrical maintenance, working alongside the Regional Managers to optimise plant uptime.

Managing a team of Engineering staff specialising in High Voltage Electrical Systems and EC&I Engineers across construction, commissioning and operations phases working closely with internal and external stakeholders to provide high levels of support and service, including the development and implementation of computerised maintenance management systems, of asset optimisation and the management and supervision of third-party COMA contracts.

Applicants will need to hold a driving license and have the ability to travel as our sites are across the UK. Location to be agreed.

## About Conrad Energy Ltd

Conrad Energy is the power company of the future, supporting critical national infrastructure through delivering flexible generation when it's needed most in support of a low carbon power grid dominated by renewable energy. Our growing team also deliver optimal power solutions for corporate clients from a range of complementary technologies and apply strategies tailored to customer requirements.

Radically transforming the way the energy market works, Conrad Energy is the largest provider of flexible generation in the UK. We now have a combined installed capacity of 600MW across 45 sites with over 100 experts dedicated to supporting critical national infrastructure and the UK's energy transition to a low-carbon economy.

A full-service Independent Power Producer (IPP), Conrad Energy is focused on meeting the growing demand for balancing services in the UK electricity market through the development, construction and ownership of natural gas fired peaking engine plants and battery storage systems. The management team has vast experience in this field, and we have strong financial backing to grow a premier generation business.

We are based in Abingdon, Oxfordshire and our operations cover the UK mainland.



## **Main Job Tasks and Responsibilities**

- To carry out all your duties with health and safety as number one priority. Responsibilities for your own Health and Safety, for the Health and Safety of your work colleagues and any others who may be affected by the operations under your responsibility or control.
- Ensure that all electrical plant and equipment is both run efficiently and safely as scheduled by the trading team and maintained efficiently and safely in between times of commercial demand. Both operation and maintenance are to be carried out in accordance with H&S systems / Operational Policies and Procedures, including technical OEM operating literature and guidelines.
- Focusing on KPIs of the sites' electrical balance of plant equipment, such as availability and efficiency, to identify when improvements to maintenance practices are needed. To define and implement appropriate electrical operations and maintenance procedures and practices, working with and developing the company's information systems. This could, for example, mean standardization of maintenance related data capture and analysis to drive improvement, or implementing additional preventive maintenance based on cost-benefit analysis.
- Manage, develop, lead and motivate the EC&I Team to ensure their potential is realised to the mutual advantage of the Company, external stakeholders and the employees themselves.
- Support, train, coach and mentor associated Operations Area Managers on electrical matters as necessary. Ensure all staff who access electrical equipment are trained and aware of their health and safety responsibilities.
- To assist in developing and implementing annual budgets for electrical spare parts and inventory for the operational sites across the group, ensuring P&L spend does not to exceed cost code limits for period. Gain necessary approvals required for spend on regional operation and maintenance budgets.
- Bring forward and implement remedial action plans as required, providing full cost and time analysis as required.
- Good communication and management of information from specific sites to internal and external stakeholders.
- Assist in the selection and management of external contractors and suppliers, including reviews on performance and quality of work.
- Provide maintenance services to a high standard for external customers as required.
- Support handover of newly built sites from the Construction team or new acquisitions into Operations through ensuring plant, equipment, facilities and personnel are ready.
- Adherence to all Company Policies & Procedures (including but not limited to) those specified in the Employment Handbook, H&S Policy, Environmental Management Systems, Integrated Management Systems and any financial/accounting systems.
- Apart from the duties summarised in your Role Profile, the company reserve the right to include other reasonable duties which are part of, and incidental to, this type of work.

## **Principal Skills**

- Good technical knowledge with SAP capabilities of electrical systems up to 33kV, exposure up to 132kV.
  - Ability to make balanced decisions regarding changes to maintenance schedules, experienced at organising the most challenging / complex repairs and maintenance processes.
  - Sound people management skills that create both urgency and ownership within the team.
  - An understanding of ISO 9,001 Quality Management Systems
  - A track record of using data, systems and processes to drive continuous improvement
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- Highly experienced at managing supply chain for electrical services - good commercial acumen
- Able to communicate engineering issues to senior management and across disciplines.
- Reasonable technical knowledge and experience of gas reciprocating engines, large battery storage systems and high voltage / power installations.
- Work closely with and support other departments in the business: Mechanical Operations Team, Development, Construction, Finance, Procurement, Human Resources and HSQE.
- Extensive network of contacts within the power generation and distribution industry.

## **Knowledge**

**Essential:** Sound knowledge of Electrical Theory, Application and Technologies for the Electricity Generation and Distribution industry. Legal, Safety and Environmental obligations and responsibility that impact upon reliable operation of the above. it. Working knowledge of developing and managing maintenance through CMMS systems.

**Desirable:** A good understanding of Digital Control and Instrumentation techniques and technologies Exposure to MWM, Jenbacher, Siemens, MTU, Cummins or CATERPILLAR reciprocating gas engines for generating electricity.

## **Skills**

**Essential:** Good written and numerical skills, IT literate, Ability to work under pressure and meet constantly changing deadlines and priorities. A valid full driving licence for countrywide travel.

**Desirable:** Managing change in engineering maintenance environments, managing customer facing maintenance contracts. Ability to drive Root Cause Analysis processes.

## **Experience**

**Essential:** Proven track record in the design, installation, operation and maintenance of electricity generation and balance of plant equipment up to 33kV.

**Desirable:** Control and Instrumentation experience. Exposure to higher voltages up to 132kV, experience of operating battery energy storage systems A good feel for data and analytics in an engineering maintenance backdrop

## **Qualifications**

**Essential:** Educated to at least HNC level or equivalent, in Electrical Engineering augmented by experience in Electric Power Engineering or equivalent environment.

**Desirable:** Electricity Generation or Heavy Electrical / Process Plant Training, IET membership or equivalent professional recognition.

More information can be found at [www.conradenergy.co.uk](http://www.conradenergy.co.uk)

Please send your covering letter and CV to [info@conradenergy.co.uk](mailto:info@conradenergy.co.uk)

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