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## Senior EC&I Engineer

We are looking for an experienced and motivated Senior Electrical Control & Instrumentation (EC&I) 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. Future plans will see this extend to solar projects and behind the meter power generation schemes.

Reporting to the Senior Electrical Engineer, this role is responsible for the Control Operation and Maintenance Activities for all Power Plant Controls, which are predominantly gas engines (but will develop into battery energy storage systems), general Instrumentation, SCADA and Communications at site level on 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.

Managing a team of EC&I engineers, you will optimise plant uptime by working closely with other Electrical personnel, IT, the Regional Managers and outside service providers such as LV contractors.

Applicants will need to hold a driving license and have the ability to travel as our sites are across the UK mainland. 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 EC&I equipment runs 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.
- Focus 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 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.
- Maintain inter-personal relations with seniors, colleagues and peers to be able to maximise delivery of your objectives.
- Support, train, coach and mentor associated Operations Area Managers on EC&I matters as necessary. Ensure all staff who access electrical equipment are aware of their health and safety responsibilities.
- Bring forward for consideration improvement initiatives and implement action plans as required.
- Provide maintenance services to a high standard for external customers as required.
- Be involved in the handover of newly built sites from the Construction Team or new acquisitions into Operations.
- 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 reserves the right to include other reasonable duties which are part of, and incidental to, this type of work.

## **Principal Skills**

- Good technical knowledge of analogue and digital engine control systems, energy sector instrumentation and communications protocols.
  - Reasonable technical knowledge and experience of gas reciprocating engines, large battery storage systems and power electronics.
  - Ability to implement changes to maintenance schedules, adapt to deliver 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.
  - Use of data, systems and processes to drive continuous improvement.
  - Able to communicate engineering matters to senior management and across disciplines.
  - Work closely with and support other departments in the business: Mechanical Operations Team, Development, Construction, Finance, Procurement, Human Resources and HSQE.
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## **Knowledge**

**Essential:** Sound knowledge of Theory, Application and Technologies in EC&I systems. the Electricity Generation and Distribution industry. Good knowledge of Legal, Safety and Environmental obligations and an appreciation of their impact upon reliable operations. Working knowledge of developing and managing maintenance through CMMS systems.

**Desirable:** A good understanding of Digital communications Control and Instrumentation techniques and technologies applied in 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:** A strong background in heavy plant digital communications, Control and Instrumentation, and SCADA generally. Good involvement in the design, installation, operation and maintenance of EC&I systems.

**Desirable:** Control and Instrumentation experience in gas engines

## **Qualifications**

**Essential:** Educated to at least HNC Industrial Electronics or equivalent, augmented by experience in Electric Power Engineering 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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