



## About Us

Established since 1929, ALVANCE British Aluminium, part of the GFG Alliance, owns and operates the last remaining aluminium production plant (smelter) in the UK and a connected hydropower electricity generation station located on the slopes of Ben Nevis, Britain's highest mountain. A combination of renewable energy sources makes this site one of the greenest metal production plants in the world.

## Role Objective

The primary function of the role is to provide technical electrical engineering expertise within the Maintenance Department and to provide support to the site maintenance engineers in relation to the integrity and security of the site electrical infrastructure and compliance with legislative requirements regarding the operational safety and maintenance of the site electrical systems.

An additional responsibility for the role is to participate in the delivery of major capital and operating expense projects utilising IPP project procedures. The Senior Electrical Engineer will develop and approve the technical electrical project scopes and manage electrically biased projects.

## Duties & Responsibilities

- Provide technical authority for electrical systems across the smelter.
- Support the safe operation and maintenance of substations, motors, drives, UPS systems, control systems, overhead cranes
- Maintain reliable power supply to potlines, cast house, carbon plant, utilities and auxiliary plant areas.
- Support power system isolations and permitting and reenergisation.
- Troubleshoot power system and control systems issues.

### *Electrical safety and compliance*

- Act as a senior technical resource for electrical safety across the site.
- Ensure electrical work complies with site standards, statutory regulations, arc-flash requirements and industry best practice.
- Participate in incident investigations, risk assessments, audits, HAZOPs and safety reviews.
- Promote a strong electrical safety culture across engineering, operations, maintenance and contractor teams.

### *Reliability, Maintenance and Asset Improvement:*

- Lead reliability improvement projects for critical electrical assets.
- Analyse failures, repeat defects and unplanned outages using RCA and structured problem-solving methods.
- Develop and improve preventive, predictive and condition-based maintenance strategies.
- Create long-term asset management plans for critical electrical infrastructure.
- Identify obsolescence risks and develop practical upgrade or replacement plans.



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- Manage electrically biased engineering development and upgrade projects from concept and design through to installation, testing, commissioning and closeout.
- Ensure engineering changes are implemented with stakeholder agreement and comply with relevant engineering standards and legislative requirements.

#### *Operational support and breakdown response*

- Provide senior electrical engineering support during plant breakdowns and outages
- Coordinate technical response using internal teams, OEMs, contractors and specialist service providers.
- Provide clear technical advice to production and maintenance teams during high-pressure operational events.
- Participate in out-of-hours support or escalation arrangements where required.

#### *Automation, controls and digital systems interface*

- Work closely with automation and control systems teams on PLC, HMI, SCADA, protection relay and power monitoring interfaces.
- Ensure electrical systems are properly integrated with plant control, alarm, interlock and functional safety requirements.

#### *Technical leadership*

- Provide technical guidance to electrical engineers, maintenance supervisors, electricians, technicians and contractors.
- Mentor junior engineers and support the development of electrical competence across the site.
- Maintain electrical documentation, including single-line diagrams, protection settings, asset registers, maintenance standards and engineering records.
- Lead technical reviews and communicate complex electrical issues clearly to operational and senior leadership teams.

#### **What we are looking for:**

##### *Essential*

- Degree in Electrical Engineering or equivalent.
- Significant experience in heavy industry, preferably mining, metals, power generation, utilities, oil and gas, chemicals or large-scale manufacturing.
- Strong knowledge of electrical distribution systems.
- Experience with transformers, switchgear, protection relays, motors, VSDs, substations and industrial power systems.
- Ability to read and interpret single-line diagrams, schematics, protection drawings and electrical layouts.



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- Strong understanding of electrical safety, isolation, switching and permit-to-work systems.
- Experience delivering or supporting electrical capital projects and commissioning activities.
- Strong communication skills with the ability to influence operations, maintenance, contractors and leadership.

#### *Desirable*

- Experience with electrical reliability, maintenance strategy, fault investigation and root cause analysis.
- Familiarity with AutoCAD, CMMS and similar systems.
- Knowledge of PLC, HMI, SCADA, power monitoring systems.
- Experience managing contractors, OEMs and specialist electrical service provider

#### **Hours of Work**

- Monday to Thursday: 0800 - 1630
- Friday: 0800 - 1300

#### **Benefits and Reward**

We can offer you the opportunity to be part of a strong and talented team, taking part in rewarding work, with supported learning and development, along with an excellent work-life balance.

#### Benefits and Reward

- **Relocation Package**
- **Bonus Salary**

For your commitment, drive and outstanding performance you will be rewarded with:

- Competitive Salary
- Responsibility Payment, Annual Callout
- 25 days annual leave
- 8 public holidays
- All specialised training provided
- Bonus Scheme - 10% base salary up to a maximum of two times STIP target
- Company pension contribution from 4% up to 9%
- AVIVA Life Assurance (6 times the salary)
- BHSF Cash Health Care Plan or AVIVA Private medical insurance plus Dental Scheme
- Onsite gym and access to a variety of employee wellness initiatives
- Employee Assistance Programme
- Education Support Grant, £1000 for each child in university paid annually
- Cycle to Work Scheme
- Employee Reward and Recognition Programme



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- Employee Discounts – Local Discounts (Highland Highlife, Highland Cinema, Cotswold Outdoor and more), Inclusive rewards (Salary sacrifice scheme, discounts - Argos, Currys, Costa, M&S, Boots, Travel and more, cashback)

**CLOSING DATE: Friday 12th June 2026 INTERVIEW DATES: w/c 22nd June 2026**

**For more information or if you have any questions, you can email [lochabercareers@alvancegroup.com](mailto:lochabercareers@alvancegroup.com)**

**[Senior Electrical Engineer - Fort William PH33 6TH - Indeed.com](#)**