

Senior Electrical Engineer - UK

About Safearth

Safearth is an internationally recognised specialist electrical engineering consultancy, known for technical leadership in:

- Earthing systems
- Lightning protection
- Electromagnetic induction and interference

We deliver end-to-end solutions encompassing engineering consulting, field testing, training, specialist software and test instrumentation.

Our work supports critical infrastructure and major projects across power generation and transmission, renewable energy, rail, mining and resources, utilities, and heavy industry.

At Safearth, we are a people-first engineering consultancy. We believe the best technical outcomes come from curious minds working collaboratively to solve complex, real-world challenges. Our engineers are encouraged to question, investigate, innovate and continue developing their expertise.

The Opportunity

We are seeking an experienced Senior Electrical Engineer to join our UK team.

This is not a conventional design-only consulting role. It is a technically challenging, hands-on position combining advanced engineering analysis, field investigation, client engagement and technical leadership.

You will lead and contribute to complex projects, support the development of less-experienced engineers and build specialist expertise in a niche, high-value area of electrical engineering.

The role offers exposure to diverse projects across the UK and Europe, with the opportunity to work alongside recognised specialists and influence practical engineering outcomes for critical infrastructure.

What You'll Be Doing

Technical Engineering and Project Delivery

- Lead and undertake earthing system design, modelling and performance assessment.
- Complete lightning protection system design and compliance assessments.
- Undertake electrical shock risk assessments, technical investigations and incident analysis.
- Conduct electromagnetic induction and interference studies.
- Develop practical solutions across electrical, instrumentation, communications, power and civil interfaces.

- Lead technical scopes and deliver complex engineering work from initial investigation through to final reporting.
- Review technical work and help ensure deliverables are accurate, defensible and completed to Safeearth's quality standards.
- Manage project priorities, budgets, risks and agreed delivery timeframes.

Site and Field Work

- Plan, lead and participate in site-based electrical testing and investigations across the UK and EU.
- Analyse and interpret field measurements to support engineering assessments and recommendations.
- Work collaboratively with technicians, contractors, asset owners and other project stakeholders.
- Identify and manage technical and site risks.
- Demonstrate strong safety leadership and maintain a high standard of WHS compliance.

Clients and Commercial Support

- Engage directly with clients to understand their technical challenges and develop practical solutions.
- Prepare proposals, define scopes and contribute to project planning and fee estimates.
- Produce clear, accurate and high-quality technical reports.
- Present technical findings and recommendations to clients and project stakeholders.
- Build trusted, long-term client relationships.
- Identify opportunities to provide additional value and support the growth of Safeearth's consulting services.

Technical Leadership and Team Development

- Provide technical guidance and support to engineers and technicians.
- Mentor developing engineers and contribute to their technical capability.
- Share knowledge, lessons learned and better-practice approaches across the team.
- Contribute to the improvement of technical methods, tools and internal processes.
- Support a collaborative culture of technical excellence, accountability and continuous improvement.

This is a hybrid role combining office-based engineering with regular site work and travel.

What You'll Bring

- A degree in Electrical Engineering or an equivalent recognised qualification.

- At least five years' relevant engineering experience, ideally gained within consulting, utilities, mining, energy, renewables or an industrial environment.
- Demonstrated ability to lead or independently deliver complex technical work.
- Strong analytical, investigative and critical-thinking capability.
- Sound commercial awareness and an understanding of project scope, budget and delivery requirements.
- Excellent technical writing and verbal communication skills.
- The confidence to engage effectively with clients, contractors and technical stakeholders.
- High attention to detail and a strong commitment to technical accuracy and quality.
- Experience mentoring or supporting developing engineers.
- A proactive and collaborative approach to problem-solving.
- A strong commitment to work health and safety.
- A current UK driver's licence.
- UK permanent residency or valid UK working rights. Please include your visa status in your application.
- Willingness to travel and undertake site-based work.

Desirable—but Not Essential

- Experience with CDEGS, XGSLab, DIgSILENT PowerFactory or similar engineering modelling software.
- Knowledge of HV and LV power systems.
- Experience in earthing, lightning protection, electromagnetic interference or electrical safety.
- Experience within utilities, mining, renewable energy, rail or heavy industry.
- Chartered Professional Engineer status, RPEQ registration or eligibility to obtain relevant professional registration.
- Experience leading small project teams or coordinating multidisciplinary technical work.
- EU citizenship.

Specialist earthing experience is advantageous but not essential. If you bring strong electrical engineering fundamentals, sound judgement and a genuine interest in developing specialist expertise, we encourage you to apply.

Why Join Safeearth?

At Safeearth, you will have the opportunity to:

- Work alongside nationally and internationally recognised technical specialists.
- Develop deep expertise in a specialist and high-demand field.
- Lead technically challenging and meaningful projects.
- Gain exposure to diverse industries, clients and working environments.
- See your engineering work tested and applied in real-world settings.
- Mentor others while continuing to grow your own technical capability.
- Contribute to innovation in electrical safety and infrastructure resilience.
- Be part of a supportive, collaborative and people-focused culture.

Work That Matters. A Career That Grows. A Team That Supports.

If you are ready to lead challenging engineering work, develop valuable specialist expertise and join a company that genuinely values technical excellence and its people, we would love to hear from you.

To Apply:

Please send your resume to UKEnquiries@safearth.com