Role definition

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| Job title: | Senior Engineer |
| Reports to: |  |
| Direct reports: |  |
| Business unit: | Baker Hicks Limited | Location: | All Locations |

Summary

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| BakerHicks have grown rapidly in the Transmission & Distribution sector over the last four years and have been successful in winning a number of major projects within the UK. As the demand to deliver exceptional engineering design from our clients continue’s to grow, an opportunity has arisen for a Senior Electrical Engineer with a specialism in HV cable design.  |

Key objectives

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| The Senior Electrical Engineer – HV Cables role will be reporting to the office lead and will be responsible ensuring the quality and consistency of the teams output in the production and control of drawings and technical documents.  |

Principal responsibilities and accountabilities

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| The candidate must have experience in the production of all designs, calculations, reports & drawings associated with the new or modification of EHV underground cabling projects from 11kV – 400kV. This will cover the production of bonding line diagrams, cable rating calculations, induced voltage calculations, short circuit force calculations, thermo-mechanical thrust calculations, pulling tension calculations, production of material specification lists. Candidate will have experience from a power engineering background and have good communication skills. In the role they will manage the production of designs through a robust checking process, but must also develop drawing office standards.The candidate must be enthusiastic, mature enough to operate in a diverse team and work without full time supervision. This role can lead to many of the career paths for the employee as they develop through BakerHicks |
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Person specification

Qualifications and training

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| Ideally the candidate will have:* BEng/BSc in Electrical Engineering
* MEng/MSc in Power Engineering
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Technical skills and experience

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| * Experience of working with TSO and DNO.
* Delivering project cable system design requirements, included but not limited to:
	+ Current ratings (IEC60286 and IEC60853)
	+ Producing Bonding diagrams
	+ Producing Material Schedules & Technical specifications
	+ Thermo-mechanical design calculation
	+ Induced voltage calculations
	+ Cable pulling tension calculations
	+ Short circuit current rating and electromotive force calculations
	+ Producing Joint bay, trench, CSE, cable routing designs (concept & detailed)
* Preparation and checking of feasibility studies, outline and detailed design technical reports and other written documents.
* Design and checking of design drawings.
* Delivery of work to programme, budget and specification.
* Provide a technical interface with 3rd parties
* Experience in software packages such as MathCAD, CYMCAP, COMSOL, etc
* Be proficient with associated cable technical specifications from clients such as National Grid, SSE, Scottish Power, UKPN, WPD, etc
* Good Computer and report writing skills
* Good interpersonal skills and the ability to work well within a team.
* Good attitude to obtaining new skills and capable at transferring existing skills to overcome new challenges
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