

ROLE PROFILE SUMMARY

Role:	Power Distribution Engineer
Reporting to:	Technical Manager - Hardware
Reports within region:	Connected Energy Technical Centre, Hethel Engineering Centre, Chapman Way, Hethel, Norfolk NR14 8FB

Purpose of Role:	Working primarily in the Energy Storage, industrial and commercial sectors. Due to ongoing growth we are looking to recruit an experienced Engineer with Power Systems and Distribution experience to join a team working on the development of battery based static energy storage systems.
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ACCOUNTABILITIES

1. Undertaking of electrical power distribution design work that meets the standards dictated by relevant regulations and global compliance requirements.
2. Internal subject matter expert in terms of LV and HV power distribution product design, development and validation.
3. Supporting sales by leading site surveys and installations from a technical perspective.
4. Designing site installation and integration of CE products.
5. Specifying LV and HV scopes of works for sub-contractors and managing technical deliverables of sub-contractors.
6. Planning and delivering projects efficiently and effectively to meet with agreed timings and budgets.
7. Maintaining and disseminating latest technical developments and best practice in the industry.
8. Maintaining good, professional and safe working practices within the business.
9. Complying with company policies.

Role

As a Power Distribution Engineer, you will work as part of a multi-disciplined Engineering Team and be the lead engineer in terms of power distribution and site/grid integration requirements. Our electrical engineers are involved in projects from the concept and detail design, through to development, implementation, testing and handover. You will also be leading site surveys and installations from a technical perspective and supporting development of repair and maintenance policies, processes and programmes as well as system commissioning.

Responsibilities

While the work will vary according to the project, you'll typically need to:

- Understand product, project and site requirements.
- Be the technical expert on the LV power distribution side of site applications on bespoke installations.
- You will be an integral part of developing specifications for power distribution, switchgear, protection, monitoring and integration of commercial Energy Storage Devices.
- Have a good understanding of connection requirements for generation on LV networks.
- Be able to understand and modify single line diagrams schematics in CAD.
- Design build and test models and prototypes of new products during and after the R&D process.
- Produce product documentation for internal and external use as well as technical reports.
- Work to British (BS), European (EN), American (UL) and other relevant standards to ensure its proper implementation.
- Coordinate with other departments involved in the project, specially the wider Engineering Team and Sales Team.
- Deal with suppliers during design and carry out component selection activities.
- Provide technical expertise and support during site surveys, installation (SAT), maintenance and upgrade of units.

Specific Skills Requirements:

You'll need to show:

- You should be acquainted with LV/HV substation layout, switchgear, protection devices and associated busbars. These should ideally be between 300kW-20MW.
- You have a working knowledge of LV and HV systems design, with hands on experience during your career.
- You have an understanding and experience of managing basic DNO applications (capacity upgrades and G99 applications preferable).
- You have experience of Powerflow analysis/ modelling electrical power systems using desktop software.
- You will understand and have a proven career history in Power Management design including: Switchgear, busbar, protection devices transformers, cabling and enclosures.
- The ability to provide or interpret a design brief and converse with electrical component suppliers regarding component selection and specification.
- You should demonstrate your skills in relation to Power System Architecture definition and requirement capture.
- Self-motivation and capability of delivering work tasks without a high dependency of additional resource.
- You have knowledge of the Grid code and regulations of Grid connected generation equipment installations and new network connections.
- Demonstrate the ability to have good verbal and written interaction with existing design team members and suppliers.
- Specification of installation requirements for energy storage to multiple sub-contractors or EPC's for switchgear, cable connections (preferably LV), earthing and commissioning.
- Manage sub-contractors as a principle contractor lead or to a lead company.
- Review and selection of proposals/tenders, managing price and implementation.
- Knowledge of protection and cable equipment calculations for contractor specification or proposal review.
- Provide internal teams with cost estimations and commercial conditions for tender responses.
- Assessment of existing client LV networks for the installation of distributed generation equipment.
- Understand the safety requirements to be able to provide client with RAMS and other process documentation for managing installation works.

Complementary skills:

- Experience in design for manufacture.
- Experience using Amtech, NEPLAN or similar design and calculation-based software.
- Working knowledge of installations (IET Wiring Regulations) & BS EN 61439 Low-voltage switchgear.
- Previous experience with LV and HV switchgears and control panels highly desirable.
- An analytical and problem-solving approach to work with an ability to multitask.
- Understanding of software/control/metering/protection circuits.
- The ability to read design specifications and technical drawings.
- The ability to work in a multidisciplinary team commitment to continuing professional development throughout your career.

Potential complimentary career backgrounds:

- Electrical Design or Power Distribution Engineer.
- Trade certified or qualified Electrical Engineer.
- Electrical services industry including maintenance and design.
- Electrical engineering in either commercial or domestic building sector.
- Renewable energy installation, integration, planning and installation design.

Skills, Experience and Qualifications required for Job Role		
	Essential	Desirable
Skills <i>e.g.</i> Computer literacy Project Management Interpersonal	<ul style="list-style-type: none"> ▪ Excellent planning and organising skills ▪ IT Literate (MS Word, Excel, etc) ▪ Numerate ▪ The ability to make decisions ▪ Self-starter and driven ▪ Ability to work independently ▪ Good verbal and written communication skills 	<ul style="list-style-type: none"> ▪ Presentation skills ▪ Excellent communication skills ▪ Relevant technical and up-to-date sector knowledge
Job Related Experience <i>e.g.</i> Number of years' experience required to do the role. Does the experience need to be industry specific	<ul style="list-style-type: none"> ▪ 5+ years working within a relevant electrical engineering role ▪ Knowledge of CAD (2D) ▪ Demonstrable evidence relating to the design, test, validation and commissioning of LV/HV electrical systems ▪ Specific industry experience ▪ Knowledge on relevant BS, EN and/or UL standards 	<ul style="list-style-type: none"> • Renewable energy experience • Experience in Fault-finding on electrical assemblies • Ability to carry out testing on R&D prototypes
Industry Qualifications <i>e.g.</i> Professional Vocational, etc (where appropriate)	<ul style="list-style-type: none"> ▪ The candidate will be expected to have commensurate professional and vocational qualifications comparable to the role, but with a high bias towards significant relevant experience in the field(s) advertised. 	<ul style="list-style-type: none"> • IET Wiring Regulations 17th ,18th Edition certified • A relevant Engineering Degree/HNC/HND

Additional Information	
Immediate eligibility to work on the UK/EU	
Driving License	Yes
Mobility	Needs to be able to travel in line with role requirements and spend nights away from home when required. Internationally but mostly Europe. Up to 15 % travel max.
<p>Please send your CV and Covering letter to the email address below stating which Vacancy you are applying for. FAO: recruitment@c-e-int.com, info@c-e-int.com</p> <p>Unfortunately, due to the volume of applications we receive, we are not always able to contact everyone, however if you are invited for an interview, you will be contacted directly by the manager for the position.</p>	