

ROLE PROFILE SUMMARY

Role:	Electrical Design Engineer
Reporting to:	Technical Manager Hardware
Reports within region:	Connected Energy Technical Centre, Unit 48 Hethel Engineering Centre, Chapman Way, Hethel, Norfolk NR14 8FB

Purpose of Role:	Working primarily in the Energy Storage, Plug-in Vehicle & transport sectors. Due to ongoing growth we are looking to recruit an experienced Engineer with Electrical Engineering experience to join a team working on the development of battery based static and mobile energy storage systems
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ACCOUNTABILITIES

Listed:

1. Undertaking of electrical design work that meets the standards dictated by relevant regulations and standards.
2. Working as part of a team and working with the team to deliver solutions that meet with the wider requirements of the business.
3. Planning and delivering projects efficiently and effectively to meet with agreed timings and budgets.
4. Maintaining a working knowledge of the businesses products and of relevant developments in the industry
5. Maintaining good, professional and safe working practices within the business.
6. Complying with company policies

Role

As an Electrical Development Engineer, you will work as part of a multi-disciplined group. Our electrical engineers are involved in projects from the concept and detail of the design, through to development, implementation, testing and handover. You may also be involved in supporting maintenance programmes as well as system commissioning.

Responsibilities

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

- Understand product/project requirements
- Be familiar with the high-power side of site applications and power distribution on bespoke installations
- You will be an integral part of developing AC and DC power distribution, switching, protection, monitoring and integration of commercial Energy Storage Devices.
- Design build and test models and prototypes of new products during and after the R&D process
- Design of power distribution circuitry medium and low voltage systems, design wiring schematics, switching, and power monitoring systems
- Produce product documentation for internal and external use as well as technical reports
- Work to British (BS), European (EN), American (UL) and other standards and ensure its proper implementation
- Familiar with New Product Development (NPD) and New Product Introduction (NPI) processes and managing the phases of and transition from design and development, test and validation and hand over to contract assembler requirements
- Manage validation of complete system and compliance with both UK and European standards
- Integration of battery and power electronics systems
- Coordinate with other departments involved in the project, specially the technical 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 have a working knowledge of LV and HV systems design, ideally with hands on experience during your career
- Capture and interpret customer requirements in terms of system functionality and associated product architecture requirements
- Have a firm knowledge of current and 'State of Art' commercial electrical components generally used in the integration of industrial drives, i.e. Relays, digital integrated controllers, switchgear and assemblies
- The ability to interpret a design brief and converse with electrical component suppliers regarding component selection and specification
- Data driven, self-starter with strong customer and stakeholder communication skills
- 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
- Must have a strong interest in innovation and product development within the fields of low carbon technologies and smart energy networks
- Manage system and component compliance in line with customer and industry application requirements and expectations in both UK and European territories
- Demonstrate the ability to have good verbal and written interaction with existing design team members and suppliers

Complementary skills:

- Experience in design for manufacture
- An analytical and problem-solving approach to work
- Understanding of software/control 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.
- An ability to multitask

Potential complimentary career backgrounds:

- Oil and gas Electrical module power distribution design
- Electrical Design Engineering
- Electrical services industry including maintenance and design
- Electrical engineering in either commercial or domestic building sector
- Electrical Power Engineer/Power systems
- Electrical Distribution Engineer
- 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 ▪ Strong Interest in Innovation and Product Development
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"> ▪ 3+ years working within a relevant electrical engineering role ▪ Knowledge of CAD (2D) ▪ Presentable 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 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. 10% travel max.

Please send your CV and Covering letter to the email address below stating which Vacancy you are applying for.

FAO: Rachel Sarginson

Rachel.Sarginson@c-e-int.com

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.