# Job Specification – Senior Electrical Engineer

## Company overview:

GridBeyond is an innovative smart grid company. We optimise the use of our customers’ energy resources, using advanced automation technology developed in-house. Our system consists of site controllers with sensor and actuation networks, a central applications system and an operation centre for managing Smart Grid services and trading in Energy Markets.

## GridBeyond is a technology leader in the evolving smart grid offering Load Shifting, Demand Response and Frequency Response services. The smart grid is the next generation electricity network. Its aim is to utilise any possible electricity producing or consuming resource connected to the grid, from small residential to large industrial loads, to ensure security of supply in a changing energy landscape and to maximise value to the public. This challenging vision requires new technologies to be developed, with a focus on control and IT technology.

## To maintain our market leadership, we are strengthening our technical team.

## ***Job Overview***

The successful candidate will join the technical delivery team by designing, optimizing and implementing small, medium and large scale projects that will primarily focus on battery installations, smart switchgear upgrades and transformer upgrades in an effort to allow customers enter their large energy using assets into the different Grid schemes. The candidate will also get involved in delivering controlled solutions on customers sites where electrical design solutions are not feasible.

Reporting to:   
Head of Client Solutions

Based:

Dublin or surrounding counties based. Travel 20% of the time.  
  
Major Accountabilities:

* Identify technical solutions to meet the needs of our customers and grid requirements.
* Develop and design electrical solutions to allow large electrical loads across every industry avail of grid schemes.
* Prepare designs of high speed Industrial Transformers, Battery, Solar, EV and Hybrid systems using CAD.
* Generate suite of CAD drawings as required.
* Ability to create practical AC / DC Designs
* Conduct site surveys to check project feasibility, gather measurements and produce build diagrams.
* Attending meetings and giving presentations.
* All technical solutions and designs must meet technical, electrical standards and CDM (where applicable) regulations. Ensure quality of design meets company standards.
* Review Electrical Drawings for methods of interconnection.
* Provide project design including producing a bill of materials.
* Interconnection Modelling and packages.
* Site Design packages
* Agreeing project specifications, budgets and timescales with clients and managers.
* Research new technologies and improve project design where applicable.
* Lead project and construction management for large scale battery installation’s, transformer upgrades, switchgear upgrades and other electrically biased developments.
* Provide written and verbal instructions to installation contractors and validate quality of installed works.
* Technical leader managing the consultants to implement the project through schematic design, design development, to construction documents.
* Provide construction administrative support to the project manager during construction. Task include but not limited to, responding to RFIs, issuance of technical bulletins, review submittals and shop-drawings, conducting source inspections at vendor factories where necessary.
* Participate in equipment failure or power outage related incident Root-Cause-Analysis (RCA)
* Provide support with local and international team members for planning applications where required.
* Manage communications and reporting between asset owners, site engineers and contractors before during and after installation/upgrades.
* Report writing following installations.
* Become inhouse expert in key industries in terms of finding electrical solutions to deliver large energy using assets to market for the different grid schemes.
* agreeing project specifications, budgets and timescales with clients and managers.
* Using computer-aided design and engineering software to create project plans and circuit diagrams

Required Experience and Skills

* Electrical craft certificate with a minimum of ten years’ experience as an electrical engineer.
* Must hold high level knowledge of high voltage (220kV,110kV,150, 22kV, 20kV) substation design, mission critical power distribution, UPS, PDU, Earthing, generator systems and Building Management System
* Ability to read and understand electrical schematics and wiring diagrams.
* Ability to produce detailed electrical designs via CAD.
* Ability to conduct electrical calculations, cable sizing, earthing calculations etc.
* Familiar with construction process and cost estimating process.
* Ability to provide solutions to complex projects under pressure.
* Automation and process knowledge of different industries is beneficial.
* Basic network IP configuration is beneficial.
* Strong communicator with well-developed interpersonal skills, fluent in English.
* Demonstrate the ability to work on your own initiative without immediate hands on support in diverse locations in Ireland and UK.
* Organized, energetic and self-motivated
* A level of health and safety training is desirable, although further training will be given
* A valid full driving license
* Willingness to travel to audit sites and oversee installation works.

Term and Benefits

* Full Time after a 6-month probationary period
* Benefits include working alongside a highly motivated team delivering cutting edge technology in a growing company.
* Pension
* Life Assurance
* Phone and laptop
* Expenses covered.