

Energy Systems Designer and Project Engineer

Genesis Eco-Energy Developments is looking for an experienced design engineer to join their solar and hybrid project development team in Cape Town.

SUMMARY

Location Cape Town

Salary TBC

Job Type Permanent

Education MSc / Meng / B.Sc/B.Eng or B.Tech in Electrical & Electronics/Electronics & Communication/Power Electronics Engineering or equivalent

Experience Minimum 5 Years' Experience

Email admin@touchpointenergy.com

Job Description

Energy systems design & project Engineer

- MSc / Meng / B.Sc/B.Eng or B.Tech in Electrical & Electronics/Electronics & Communication/Power Electronics Engineering

- Minimum of 5 Years' Experience in Planning and Execution of Solar PV and hybrid Projects

Detailed Job Description / requirements [below / here](#)

Correspondence will only be conducted with short listed candidates. Should you not hear from us within 14 days, please consider your application unsuccessful.

PRIMARY RESPONSIBILITIES

- Lead design engineer for projects in our pipeline – residential, commercial, industrial, agri-processing and utility scale with site-specific engineering design and evaluation of projects;
- Conduct engineering site audits to collect structural, electrical, and related site information for use in the design of residential or commercial renewable energy or hybrid systems;
- Develop design specifications and functional requirements for projects;
- Review specifications and recommend engineering or manufacturing changes to achieve design objectives;
- Evaluate plans or specifications to determine technological or environmental implications;
- Using accepted PV and energy design software (CAD, Homer), develop and optimise PV based projects and provide detailed yield analyses, system requirements and engineering designs;
- Complete technical system specs and designs for projects including electrical single-line diagrams, panel schedules, connection diagrams;
- Provide technical direction or support to installation teams during installation, start-up, testing, system commissioning, or performance monitoring;
- Develop standard operation procedures and quality or safety standards for solar installation work;
- Guide the financial analysis of costs and benefits of proposed designs or projects;



- Provide project managers and sales personnel with engineering support as needed;
- Interface and provide streamlined project information and detailed bill of materials to the EPC contractors.

BASIC QUALIFICATIONS & TECHNICAL REQUIREMENTS

- An MSc/MEng in Electrical & Electronics or Power Electronics Engineering or equivalent accompanied by the demonstrated ability to design and develop solutions for grid integration as well as generate single line diagrams – B.Sc/B.Eng or B.Tech with the requisite technical design track record will also be considered
- A minimum of 5 years' experience essential, including design, implementation and management of small, medium and large-scale Solar PV projects;
- Sound knowledge of energy storage systems technologies and integration into systems design;
- Proven understanding of hybrid / microgrid control systems and their integration as well as knowledge of diesel generators and associated controllers;
- Proven experience in generating hybrid system analysis and proposal content;
- Professional registration with ECSA, whilst SAPVIA GreenCard registration will be a clear advantage;
- Proficient in Homer Pro, CAD, PVSyst (or similar software);
- Solid technical, commercial and strategic aptitude, and able to demonstrate strong competence in the design of integrated projects/systems that incorporate state of the art technologies such as the IOT, new financial and business models;
- A sound knowledge of the regulatory environment for SSEG and PV particularly.

Besides being a self-starter and technically competent with a demonstrable track record in the sector (possess strong experience in designing energy systems, in particular PV and hybrid projects), the candidate should: be able to work independently, demonstrate a high degree of flexibility; be delivery focused and have a strong focus on managing deadlines; demonstrate the ability to work well in a small team of highly skilled professionals; possess good client relation skills; have the ability to effectively prioritize and execute tasks in a high-pressure environment; possess strong verbal / written communication skills (able to present proposals to clients); be able to manage numerous projects simultaneously.

The successful incumbent will have a valid driver's license and be willing to undertake travel to client sites on a regular basis.

Salary - competitive cost to company salary will be negotiated for the suitable candidate

APPLICATION REQUIREMENTS

All applications will be dealt with in the strictest confidence

To minimize waste applicants must please email their CV's to admin@touchpointenergy.com

Only CVs with a cover letter and salary requirements will be considered.

References will be checked for final applicants. No phone calls please.