

## SustainSolar Job Advertisement: Project Engineer

Application Deadline: 22/07/2022

### About SustainSolar

Launched in 2018, SustainSolar belongs to the [SustainGroup](#), and is a leading equipment provider of high quality, turn-key and plug and play containerised solar PV and battery energy storage systems (BESS) with operational experience in designing, commissioning, servicing turn-key solar PV generation systems across sub-Saharan Africa, including 15 privately owned, and operated across Africa. Our tailored containerised systems are perfectly suited for emerging market's needs of clean, turn-key, and distributed renewable energy (DRE).

Designed and manufactured in Africa, with world-class components, for the remote, demanding locations of our clients. Our containerised, pre-installed solar systems are equipped with top-quality equipment (i.e., solar PV modules, electronics including lithium-ion batteries) and come in standardised yet adjustable product configurations from small to large to suit a wide range of applications. Our production system and assembly facility are geared for small-scale, once-off and bespoke projects as well as large-scale rollouts of mini-grids alike.

Headquartered in South Africa (Cape Town), the SustainSolar team focuses on business development across sub-Saharan Africa with current business activities in numerous Sub-Saharan countries. With growing activities, a good presence on the African continent, an expanding network of partners, and the implementation of new projects, SustainSolar is set to grow exponentially over the next few years with a strong focus on BESS opportunities.

### Job Description

This is an exciting opportunity to work in energy access, and support SustainSolar's growth and strategic market positioning as a key system integrator across the continent, for both the off-grid/mini-grid and BESS product range. The preferred candidate will have the following responsibilities:

- Oversee the technical scope during the manufacturing process (i.e., mechanical design, SLDs, electrical installation, factory acceptance tests (FAT), and supporting clients during the commissioning phase (SAT) successfully)

- Draft technical scope of sub-contractors where required, and sign-off on work across the project life cycle (i.e., from signature of the contract and review of technical specs to issuing manufacturing design)
- Oversee technical scope of sub-contractors during manufacturing, installation, and commissioning i.e., mechanical installation, electrical installation, and sign off after completion
- Together with the junior electrical engineer, create and review electrical schematics, cable calculations, determine quantities, select best equipment, and specify all components (BoM) to provide the optimal configuration for Battery-Storage and Solar systems
- Oversee required FAT (i.e., planning, documents such as-built drawings, etc.) and final checks before packing/shipping
- Create installation manuals for the client
- Support client remotely during commissioning (and where required, travel to site across sub-Saharan Africa)
- Liaise with OEMs and distributors in the event of a warranty claim and ensure the client is well supported until issue/claim is successfully resolved
- Oversee junior project engineers and monitoring of all existing sites, liaising with clients where there are issues and any interventions required (e.g., re-commissioning, re-setting, pushing software updates, connectivity, etc.) and successfully keep abreast and communicate with clients
- Interface with internal stakeholders for successful project delivery (project manager, technical sales & product development team, procurement, etc.) and external stakeholders to ensure consistent communication
- Keep up to date with company's internal project management processes (Asana)
- Quality control & assessment of equipment delivered to client site (i.e., drilling holes in mounting structures, comms cables wiring, electrical installation, and COC, etc.)
- Offer after sale services in terms of operation, maintenance, and technical support for new and existing client portfolio
- Technical support for tender preparation with the senior technical sales & product development engineer. Where required undertake system modelling (HOMER, PVsyst, internal tools)
- Keep up to date with latest technology development, i.e., inverters, batteries, remote monitoring systems and brands, and ensure a combination of self-training and structured training via existing distributors

## Requirements

- Electrical Engineering degree (or similar)
- Minimum 2-3 years' experience in battery-storage and/or solar systems engineering design and installation
- Strong knowledge of battery-storage and solar PV power systems
- Ability to work within a local and international design team
- Masters's Degree in an Engineering-related field is highly advantageous
- Experience in renewable project design and optimisation in the African market
- Results and solution-driven
- Well-organised and punctilious approach to work, especially during highly time pressured project phases
- Notable communication and negotiation skills
- Ability to manage multiple projects and teams
- Scripting skills for automation
- Experience in installation, operation, and maintenance of solar systems, and successfully overseeing factory acceptance and site acceptance testing
- Experience in stand-alone and hybrid energy storage systems and technology
- CAD software – use computer-aided design (CAD) software on a daily basis
- Analytically inclined, self-motivated, and driven
- Excellent relationship-building skills
- Excellent written and verbal communication skills
- MS Office proficient
- Ability to speak French and/or Portuguese would be highly beneficial

South African Driver's license

### (Optional)

- Project management concepts – from scheduling to meeting deadlines, electrical design engineers should be able to adhere to project management guidelines and processes
- Electrical codes – knowledge of electrical codes is important in the design and manufacture of electrical system
- Data analytics with relation to battery system testing and operation

## Position Details

**Type of contract:** Full Time

**Place of work:** The office is located in Paarden Eiland (Cape Town, South Africa)

**Salary package:** Market-related

**Start date:** 01 September 2022

**Additional benefits:**

- Performance based annual bonus
- Eligible for Employee Share Option Plan

## Application Details

**Application deadline:** Interested candidates should send their applications by no later than **COB Friday the 22<sup>nd</sup> of July 2022.**

**Contact details:** [careers@sustainsolar.co.za](mailto:careers@sustainsolar.co.za)

**Interviews Schedule:** Shortlisted candidates will be informed and must be available for interviews and should reserve the following dates:

- Monday the 25<sup>th</sup> of July: 14h00-18h00
- Tuesday the 26<sup>th</sup> of July: 15h30-18h00
- Wednesday the 27<sup>th</sup> of July: 14h00-18h00

Please note, due to anticipated volume of applications received – correspondence will only be conducted with shortlisted candidates. If you have not received a response by COB, Monday the 25<sup>th</sup> of July, please consider your application unsuccessful.