Design Engineer

Introduction to SOLA Future Energy
At SOLA, we believe that Africa's future relies on affordable, clean and accessible energy. Solar energy – a distributed power source that can run a building, factory, or even an island for 25 years – can pay off in just 5 years. We drive an inclusive economy in Africa through our clean and reliable energy systems, that create sustainable savings for commercial and industrial properties. SOLA has an established track record of successful projects in South Africa.

Overall purpose of the position:
Design Engineers have a dual role, firstly to design rooftop and ground mounted PV projects, according to company best practices and South African legal standards; and secondly, to compile feasibility studies and tenders for prospective clients.

Reports to: Senior Design Engineer.
Location: Cape Town *or* Johannesburg, South Africa.

Sample of Key Performance Areas (KPA's):
- PV Design:
  - Electrical and mechanical design of Rooftop PV projects from the DC PV components, combiner boxes, inverters, solar DBs, AC cable runs and connection to large LV connections;
  - Simulation of yields using software such as PVsol or PVsyst;
  - Issuing drawings, liaising with suppliers, commissioning of equipment;
  - Peer-review of drawings as required
- Feasibility studies and Tenders:
  - Request information about a potential building (Electrical and Structural);
  - Perform high-level PV design;
  - Compile load and generation document outlining the effect that the PV system will have on the building;
  - Compile feasibility study document;
- Design Drawings
  - Complete technical, electrical, mechanical and structural drawings for project.

Specific Key Performance Indicators (KPI's) to be achieved:
- Achieve Yield Prediction Accuracy (Test Week) of <2%
- Achieve Project Score of 80% and above.
- Achieve Tender Strike Rate of at least 30%

The ideal candidate will have:
- At minimum, a National Diploma (Electrical Engineering), however an Engineering Degree (Electrical) will be highly beneficial.
- Must have approximately 1-3 years' work experience of which at least 1 year has been in PV design.
- Previous experience using applications such as CAD, PVSyst, PVSol, Solidworks is required.
- Must be fully proficient in English (verbal and written communication);
- Must be fully computer literate (MS Office Suite and Google App Suite);
- The ideal candidate will be passionate about the renewable energy industry and the company's contribution to the future of energy; He/she will embody respect and responsibility in the full sense of the word, and will enjoy contributing to a team of highly knowledgeable professionals.

If you are interested to apply, please submit your CV to hr@solafuture.co.za