



MV Grid Engineer

Introduction to SOLA

SOLA is a vertically integrated provider of solar technology, project development, finance, and engineering expertise in Africa. SOLA grows businesses, connects communities, and helps people prosper by advancing the adoption of clean energy throughout the African continent. Our team is committed to powering Africa with clean, affordable energy.

The overall purpose of the position:

As Grid Engineer, you will have responsibility for MV designs working with the Engineering and Construction teams. Your scope will encompass all aspects of the MV design process from MV & HV connection design, engagement with Eskom, and overseeing the implementation of grid connection works.

Reporting Line: Senior Utility Engineer

Location: Cape Town or Johannesburg

Summary of Responsibilities:

Technical

- Complete detailed in-house MV designs ranging from but not limited to switchgear, protection, cable sizing, and transformer sizing. It will be advantageous if the applicant has experience in managing and designing substation primary and secondary plant equipment & OHL designs, etc.;
- Compile/ review detailed design documents, which would include BOQs, technical specifications as well as SOW documents, that may be prepared internally or by external consultants/ EPC Contractors;
- Have a good awareness and understanding of relevant codes, local and international standards, and design requirements;
- Assist with the interaction, managing and overseeing of the Eskom/Utility interface with Distribution (Dx) and Transmission (Tx) System operators during the Design and construction phases;
- Review and comment on Eskom Cost Estimate Letters (CELs), Budget Quotes (BQs), and Connection Agreements;
- Ensure that the grid connection aspects of project construction are completed on time and within budget, with the project achieving full Grid Code Compliance as scheduled;
- Design and or oversee/manage grid connection scope, cost, timing, and risks;
- Assist with preparing documentation for and managing the RETEC process for IPP projects;
- Assist with general technical and engineering work, including regulatory reviews, project planning, grid connection costing, technical design, tender specifications and review, design reviews, and other aspects of renewable energy project developments;
- Develop, review and provide inputs to tender and contract technical specifications to ensure that grid connection and electrical items are adequately covered and risks mitigated;
- Develop strong working relationships with various stakeholders, including Eskom Grid Access Unit, the Dx and Tx System Operators, RETEC, GCAC, equipment suppliers, EPC and O&M Contractors, external consultants, and lender's advisers.
- Provide technical support during construction and commissioning phase;

Interpersonal

- Display a problem-solving attitude and demonstrate innovative ways to resolve challenges (using technical, commercial, and interpersonal skills).
- Operate as a strategic thinker, using your knowledge of energy markets and renewable energy to inform SOLA's strategy and implementation plans over the coming decades.
- Strong desire to learn and grow within a multidisciplinary environment.
- Engage and work with a diverse range of internal and external stakeholders.
- Independent and critical thinker with strong analytical ability and commercial awareness.

CLEAN ENERGY FOR AFRICA

SOLA GROUP (PTY) LTD | T: +27 (0)21 421 9764 | INFO@SOLAGROUP.CO.ZA | WWW.SOLAGROUP.CO.ZA

DIRECTORS: B. DAMES | C. HAW | D. CHENNELLS | D. GOLDSTUCK | D. WILLS | S. HAW | T. BOARDMAN | REG. NO 2012/042769/07

- In the process or keen on becoming a registered professional engineer with ECSA

Key Performance Indicators

- Detailed design documentation complete and signed off
- Pricing accuracy during tendering and design stage
- Design process and time compliance

Minimum Requirements:

- Electrical engineering degree (B.Eng or M.Eng)
- 2+ Years experience as an electrical engineer, including working on substations and grid-connected facilities
- 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 complete sense of the word and will enjoy contributing to a team of highly knowledgeable professionals.

Beneficial experience and Skills:

- Knowledge of Digsilent, PSSE, PSCAD, PLS CADD, ReticMaster, AutoCAD/Microstation, and other relevant simulation software
- Detailed understanding of the South African Grid Codes, regulations, and standards that relate to renewable energy projects and connecting/operating these generators within the network
- Previous experience with renewable energy projects in South Africa, in particular relating to Eskom and Retec.
- Knowledge and experience of power systems, grid studies, and grid connection of utility-scale renewable energy projects in South Africa and beyond
- Understanding and interest in large BESS
- Previous technical interaction with Eskom and Municipalities w.r.t electrical infrastructure design and construction.

SOLA is dedicated to achieving transformation, hence one of our values is "dig diversity". Our Employment Equity plan and targets will be considered as part of the selection process for this position.

If you are interested in applying for this vacancy, please submit your CV to hireme@solagroup.co.za and complete the screening survey [here](#).

CLEAN ENERGY FOR AFRICA