



Battery Energy Storage System (BESS) Engineer

Introduction to SOLA

SOLA is a 100% South African, vertically integrated renewable energy solutions provider, specialising in the development, construction and operation of solar PV and battery energy storage projects. We focus on partnering with the private sector to deliver clean energy to businesses across South Africa using cutting-edge clean energy generation and storage technologies. We help our clients to grow and prosper through the adoption of low-cost and reliable renewable energy, enabling them to meet their carbon reduction and sustainability targets. For more information, visit www.solagroup.co.za

The overall purpose of the position:

The purpose of this role is to design, model, and optimise battery systems for renewable energy projects, leveraging advanced research and performance analysis to ensure cost-effective, reliable, and high-performing battery solutions. The Battery Engineer will also support project pricing and compliance with performance standards, contributing to SOLA's mission to advance clean energy across Africa.

Reports to: Head of Engineering

Location: Cape Town

Summary of Responsibilities:

Technical

- Develop detailed battery system designs and specifications, ensuring alignment with project goals and industry standards.
- Conduct battery modelling to predict performance, optimize system design, and support operational objectives.
- Conduct in-depth research on emerging battery technologies and advancements to keep the SOLA Group at the forefront of innovation.
- Evaluate and model battery performance clauses to ensure compliance with project requirements and service-level agreements.

Administrative/Operational

- Contribute to the pricing and financial assessment of battery projects, considering costs, benefits, and long-term performance.
- Collaborate with project development and business development to ensure accurate, cost-effective project delivery.
- Prepare comprehensive reports and presentations on battery performance, pricing, and technological research for stakeholders.

Interpersonal

- Work collaboratively with cross-functional teams, including engineers, finance, and operations, to drive project success.
- Maintain strong relationships with technology partners, suppliers, and stakeholders to support project development and ongoing maintenance.
- Effectively communicate technical information and project progress to non-technical team members and clients.

Health and Safety

- Adhere to and promote health and safety standards, ensuring safe and responsible design, installation, and maintenance of battery systems.
- Regularly update risk assessments and safety protocols related to battery storage systems.

CLEAN ENERGY FOR AFRICA

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Key Performance Indicators

- Accuracy and quality of battery system designs and models
- Adherence to project timelines and budget for battery-related tasks
- Effective research and integration of new battery technologies
- Successful management of performance clauses in battery projects
- Positive feedback from team members and stakeholders on collaborative efforts

Minimum Requirements:

- At minimum, a Bachelor's degree in Electrical Engineering, Chemical Engineering, Physics, or a related field.
- At least 3-5 years of experience in battery technology, energy storage systems, or a similar industry.
- Proficiency in battery modelling software and tools.
- Strong understanding of battery chemistry, performance testing, and design principles.
- Experience in pricing and financial assessment of renewable energy projects.
- Knowledge of battery performance standards and regulatory compliance.
- 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, embodying respect and responsibility in the full sense of the word, while enjoying contributing to a team of highly knowledgeable professionals.

At SOLA one of our core values is *Dig Diversity* and we are committed to transformation and embracing diversity. This commitment is what drives us to achieve a diverse and inclusive workplace, representative of the demographics of our society. We therefore give preference to applicants from the designated groups in alignment with our Employment Equity plan.

To apply for this vacancy, please complete [this screening questionnaire](#) and send a copy of your CV to hireme@solagroup.co.za.