LUSAT INVESTMENTS LIMITED

ENGINEERING & RENEWABLE ENERGY
RECRUITMENT DETAILS

Recruitment Overview

LUSAT Investments Limited intends to strengthen its engineering and renewable energy capabilities to support sustainable power-generation projects in Zambia and the wider African market. Recruitment should focus on professionals capable of designing, developing, installing, operating, and maintaining renewable energy infrastructure, particularly hydrokinetic power generation, solar energy, and hybrid electricity systems.

1. Engineering Positions

Electrical Engineer

Responsibilities: Electrical system design and power distribution; generator, inverter, and transformer integration; electrical protection and control systems; grid connection and power management.

Qualifications: Degree in Electrical Engineering, with relevant power systems experience.

Mechanical Engineer

Responsibilities: Design and development of hydrokinetic turbines; mechanical components and turbine housing; equipment installation and maintenance; performance testing and engineering improvements.

Qualifications: Degree in Mechanical Engineering.

Renewable Energy Engineer

Responsibilities: Renewable energy project development; evaluation of hydrokinetic and solar technologies; hybrid power-generation design; feasibility and energy-yield assessments.

Qualifications: Degree in Renewable Energy, Energy Engineering or a related discipline.

Civil and Water Resources Engineer

Responsibilities: River and water-flow assessments; turbine support structures and foundations; water intake and flood-management structures; hydrological and environmental assessments.

Qualifications: Degree in Civil Engineering, Water Resources Engineering or Hydrology.

Control Systems and Instrumentation Engineer

Responsibilities: Automation of renewable energy installations; SCADA and remote monitoring; sensors, IoT, and intelligent energy management; real-time equipment performance monitoring.

Qualifications: Degree in Control Systems, Instrumentation, Electrical Engineering, or Mechatronics.

2. Renewable Energy Technical Positions

Solar PV Installation Technician

Responsibilities: Solar panel installation and commissioning; inverter and battery installation; electrical troubleshooting; solar system maintenance.

Qualifications: Technical diploma or recognised solar PV installation certification.

Hydrokinetic Energy Technician

Responsibilities: Installation and servicing of hydrokinetic turbines; river-current and turbine performance testing; equipment inspection and maintenance; prototype development and field trials.

Qualifications: Mechanical, electrical or renewable energy technical training.

Energy Storage and Battery Specialist

Responsibilities: Battery energy storage systems; hybrid solar and hydrokinetic integration; battery management systems; energy efficiency and load management.

Qualifications: Electrical Engineering or Energy Technology.

Power Systems Technician

Responsibilities: Electrical installations and testing; generator and inverter maintenance; distribution equipment servicing; power quality monitoring.

Qualifications: Electrical engineering diploma or equivalent technical qualification.

3. Specialist Skills to Prioritise

Technical area	Required expertise
Hydrokinetic energy	River-current turbines and power generation
Solar energy	PV systems and solar engineering
Hybrid systems	Solar, hydrokinetic and battery integration
Hydrology	River-flow measurement and modelling
Mechanical design	Turbine design and fabrication
Automation	IoT, sensors, PLC and SCADA
Energy management	Smart grids and power optimisation
Environmental engineering	Sustainable river infrastructure

4. Proposed Recruitment Priorities

Phase 1 – Essential recruitment

- Renewable Energy Engineer
- Electrical Engineer
- Mechanical Engineer
- Hydrokinetic Energy Technician
- Solar PV Installation Technician

Phase 2 – Technical expansion

- Civil and Water Resources Engineer
- Control Systems and Instrumentation Engineer
- Energy Storage Specialist
- Power Systems Technician

5. Additional Recruitment Considerations

- Recent engineering graduates from Zambian universities.
- Experienced technicians from the energy and mining industries.
- Professionals with international renewable energy experience.
- Engineering interns and graduate trainees.
- Specialists interested in research, innovation, and technology development.

Establish focused

Established a focused Engineering and Renewable Energy Division within LUSAT Investments Limited. Its initial mandate should be to develop hydrokinetic power technology, solar installations, and integrated renewable energy solutions. This division can become the technical foundation for LUSAT's larger energy projects in Zambia, including river-based electricity generation and scalable renewable energy farms. Prioritise professionals who can translate engineering concepts into commercially viable projects.