

CHEETAH CONSERVATION FUND – NAMIBIA

Job Title: **Renewable Energy Engineer** posted: 2 March 2023 closing: 27 March 2023

Reports to: General Manager and the Farm & BUSHBLOK™ Manager.

Job Overview: The applicant will work to increase the energy production and efficiency of clean energy sources for Bush PTY LTD and the Cheetah Conservation Fund. The applicant will focus on the use and development of biomass technologies for Bush PTY LTD while aiding in the integration of solar technologies to the main campus electric grid. Applicant will supervise projects at the Biomass Technology Demonstration Center (BTDC). Projects currently include: Bush to feed production, Bushblok (fuel logs) via Shimada extrusion press, Charcoal Kiln (CK-3 from Greenpower), Johnson Su Bioreactors, and Biochar via kon-tiki Kiln. Future projects include a pellet press, biofuel generator, and water treatment plant.

Responsibilities and Duties:

- Hands-on management of all aspects of the biomass manufacturing operations including 30+ BTDC employees, budgeting & planning, production & equipment management, metrics, health & safety, and logistics.
- Focuses efforts on designing ways to increase machine efficiency, production rate, and product quality.
- Responsible for all repairs and maintenance of BTDC equipment. This includes routine preventative maintenance of the two synchronized diesel generators at the BTDC.
- Supervises any site construction and aids in the planning of future construction with the General Manager.
- Accountable for the daily operation and maintenance of all existing utilities of CCF including electric grid, water grid, internet and network.
- Monitor the electrical systems (solar grid tie inverters, battery inverters) status/performance and be ready to take action in case of a malfunction and/or an emergency.
- Planning and implementation of the expansion of all utilities.
- Keep records and generate reports, for the preventive and emergency maintenance actions taken.
- Liaise with external contractors and third parties.

Qualifications:

- Must have a bachelor's degree in mechanical engineering from an ABET or similarly accredited university.
- Must have passed the Fundamentals of Engineering Exam given by NCEES or a similar exam.
- Proficient in SOLIDWORKS (or similar modeling software) and C/C++.
- Working knowledge of Victron battery inverters and their programming.
- Familiarity with ROC and gasification technologies.
- Understanding of MODBUS protocol in use with PLC (Programmable Logic Controller), DSE (Deep Sea Electronics), and Arduino.
- At least 1-2 year of experience with engine maintenance and repair.
- At least 1-2 year experience with MEP/FP (Mechanical, Electrical, Plumbing/Fire protection) building design.
- Management skills.
- Mechanical concept development and design/manufacturing exposure.
- Effective written and verbal communication skills (must be fluent in written and spoken English).
- Individual must be highly motivated, self-starting, and exhibit the ability/willingness to make decisions at the appropriate level while working well in a team environment and bringing assignments to closure.

If you meet the qualifications and wish to apply, forward a .pdf of your CV and a letter explaining your interest to jobs@ccfnamibia.org . This position requires extreme computer literacy and fluency in English. Email application only: phone /fax/mail applications will be ignored.