

CHEETAH CONSERVATION FUND – NAMIBIA

Job Title: Facility Engineer

posted:19 August 2019 closing:30 September 2019

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

Job Overview: The Facility Engineer maintains the campus utility grid (electrical, IT, and plumbing). This is a hands-on position and requires multiple skills: it is not for a manager to supervise contractors. The successful applicant will have the ability to maintain a hybrid electric grid, basic water pumps and manifolds, and will be able to perform simple maintenance on the campus IT system.

Further, they will be able to assist with facility design and construction. They must be able to drive, weld (with MIG equipment) and have suitable academic training to follow developments in the respective fields.

The applicant will assist in 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 assist supervision of 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 kontiki Kiln. Future projects include a pellet press, biofuel generator, and water treatment plant.

Responsibilities and Duties:

- Hands-on management of all aspects of the Campus utility grid 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.
- Assist the Renewable Energy Engineer in 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.
- 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.