



## **EWB Long Term Fellowship Sanergy – Black Soldier Fly Production**

**Role:** Project Engineer - Electrical

**Venture:** Sanergy

**Website:** [saner.gy](http://saner.gy)

**Location:** Nairobi, Kenya

**Start Date:** Full-time Training in Toronto (accommodation provided) beginning October 1st 2017, departure for placement October 22<sup>nd</sup> 2017

**Duration:** 3 weeks of training in Toronto, 12 months in Kenya

**Engineers Without Borders Canada (EWB)** is a Canadian NGO that invests in people and ventures to create a thriving and sustainable world. Bolstered by its network of 40 chapters and 1300 members, EWB provides seed funding, talent and mentorship to social enterprises throughout Sub-Saharan Africa. For more information on EWB, visit <http://ewb.ca>.

### **The EWB Fellows Program**

Now in its 15<sup>th</sup> year, the EWB Fellows Program exists to develop a cadre of Systems Change Leaders by equipping them with the opportunities, competencies and skills needed to build a more thriving and sustainable world. Every year we recruit 25-30 outstanding people for the 12-month Fellowship, placing successful candidates in one of our early-stage Ventures located throughout Sub Saharan Africa. This Fellowship opportunity is with Sanergy and is based in Nairobi.

### **About Sanergy – Black Soldier Fly Production**

Sanergy's mission is to build healthy and prosperous communities by making urban hygienic sanitation affordable and accessible for everyone, forever, starting in the informal settlements of Nairobi, Kenya. We build a network of high-quality, low-cost toilets in urban slums, safely collect the waste from the communities and treat and convert it into useful end-products, such as organic fertilizer and protein rich animal feed from Black Soldier Fly Larvae (BSFL).

We reduce the cost to provide full sanitation value chain services (containment, emptying, transport, treatment and disposal/reuse) by leveraging market forces - the



agricultural inputs sector - willing to pay for high-quality waste-derived end-products.

We are currently scaling up our processing facility to increase and optimize our production of animal feed. This scale up includes the construction and startup of a production facility to produce 300 tons of animal feed per month. This facility will be the first greenfield insect animal feed production facility from insect waste in Africa – a unique opportunity!

### **About the role**

As a Project Electrical Engineer for Sanergy, your responsibilities will include:

- Working with Sanergy's design team and consultants to complete the electrical and utilities design for the new factory
- Assisting with expert oversight of electrical installation and commissioning
- Commissioning and installing equipment for the full scale factory
- Working with Facilities team to design and implement utilities required for medium scale module plant
- Complete detailed design of utilities building, boiler and electrical schematics for full scale facility
- Managing procurement, installation, commissioning and operationalizing of utilities
- Supporting installation, commissioning and operationalization of other units
- Working with architect, structural engineer and HVAC engineers to ensure utilities building is sized correctly and meets required specifications
- Working with the project team, consultants and contractors to enable the design, implementation and operationalization of amenities buildings for site
- Mentoring and training Sanergy engineers on best practice, specifically in equipment installation, electrical design and installation and utilities design and installation.

Sound exciting? Here's who we are looking for.

### **Skills & Qualifications**

Qualifications



- BSc Electrical Engineering required, professional certification ideal.
- 3-5 years of related experience
- Experience designing electrical works for industrial sites or utilities design will be ideal, as well as experience with manufacturing build projects.

**Skills:***Required*

- Electrical design and installation and commissioning of industrial equipment
- Compilation of electrical design BoQ, schematics and engineering drawings for contractor works and tender
- Ability to troubleshoot electrical faults

*Desired*

- Strong communication skills
- Comfortable engaging with contractors and consultants
- Design, installation and commissioning of boilers
- Understands PLC and control logic beneficial

**Behaviours/Character Traits**

- Doesn't stop at the stock standard solution – looks for creative ways to solve problems
- Can handle abstract problems and generate a range of possible solutions
- Able to properly weigh up risk, cost and time tradeoffs
- Resilient to setbacks, contingency plans
- Flexibility – able to adjust to shifts in scope and timeline
- Able to identify personal shortcomings and limitations and close those gaps
- Strong autonomy – can self-direct and manage own deliverables and timelines

Please note: You must be a Canadian citizen or permanent resident in order to apply. No exceptions.

**Compensation**

All costs relating to the placement are either paid for directly by EWB (airfare, insurance, vaccinations, trainings) or indirectly through a living stipend, which covers food, living expenses, local travel, etc. Fellows also receive an honorarium that can be used to assist with repatriation costs or additional costs during the duration of the placement. The stipend covers basic living expenses for a modest lifestyle in your



placement country. You should not expect to save money during this year or use the stipend to cover previous expenses (ex. student loans).

Additionally, EWB offers a range of benefits including insurance, a settlement allowance, professional development opportunities, and more.

### **Application Instructions**

Submitting your application for the EWB Fellowship involves two steps:

Step 1: Under the subject line “Project Electrical Engineer - Sanergy”, submit your CV/Resume to [ltfreruitment@ewb.ca](mailto:ltfreruitment@ewb.ca).

Step 2: Complete the [following online application form](#).

We **highly encourage** applicants to apply for more than one role as this is a highly competitive program. If you would like to submit your candidacy to more than one role, please fill out separate forms.

Applications will be reviewed, and interviews scheduled on a rolling basis, so please submit your application as soon as possible. If the posting is still on our website, consider the role available. For further detail about EWB, please read our Fellowship FAQ, [our website](#) and our [manifesto](#).