Job Description
Position: Electrical Engineer

About Us: Renewvia Energy is a solar minigrid developer with 7 active sites in Kenya and 2 in Nigeria, with funding secured to build an additional 11 in the next 6 months. We pride ourselves on doing quality work, and we need an additional engineer to expand our capabilities.

Overall Description: You will be responsible for designing and building all solar generation systems for minigrids and commercial/industrial projects. You’ll be the one both designing from scratch at the desk and the one installing and commissioning on site.

Location: Based in Nairobi, Kenya, and working across all Africa projects, which right now is specifically Kenya and Nigeria but may expand.

Contact: Douglas Cox at douglas@renewvia.com. Send your CV and pictures of any interesting projects you’ve worked on. No need for a cover letter unless you really, really want to write one.

See below for some more details about specific areas of work.

Key Responsibilities
• Design
  o Sizing of PV systems for customers, including solar panels, inverters, and batteries
  o Design of the physical layout of equipment for modularity, ease of installation, and appearance
  o Layout and construction of PV racking
  o For sites that require it, selection of generator and supervising installation and commissioning
  o Ensure long-term safety and reliability by following international code (we like IEC)
    ▪ Correct sizing of all conductors and bus bars
    ▪ Correct sizing of fuses and circuit breakers
    ▪ Following best installation practices on wire routing and protection, sealing, etc.
• Installation
  o Be the supervisor and lead installer for every step of generation equipment installation
  o Bear full responsibility for the correct programming and safe commissioning of all equipment
  o Be the expert on everything at the project generation site so that questions and issues can be quickly addressed
• After Commissioning
  o Ensure reliable access to equipment data through equipment monitoring platforms
  o Remotely assist our agents in communities (or designated staff at C&I projects) with understanding and addressing any issues that arise
• Equipment selection
  o Choose equipment for our projects that balances price, quality, support, and ease of use
  o Assist in evaluating new equipment as it comes our way. We get a lot of sales emails!

Requirements
• Bachelor’s Degree in Engineering
  o If not Electrical Engineering or similar, we’d like to see some significant electrical engineering experience. Tell us what you’ve done and we’ll tell you if we think it could be a good fit.
  o If you don’t have an engineering degree at all, the bar for your experience requirement is raised higher, but this doesn’t necessarily rule you out if you have significant experience with solar systems.
• You’ve designed electrical power systems according to IEC 60364 or a similar standard.
• Your experience is enough that you could take charge of the whole job description on your first day. We won’t put specific time requirements on this, but you should have worked long enough that you can hit the ground running.
• The more familiar you are with a variety of equipment manufacturers, the better. It would be great if you are familiar with SMA and Victron, especially.
• You’re organized. Disorganization leads to waste!
• Good communication skills are super important to us. Your work will integrate into so many other priorities with customers and communities, so being clear and personable with your teammates and with external stakeholders will be crucial.
• Experience working with an international team is a plus. Renewvia has employees from 6 countries across 5 continents, so being comfortable with different communication styles and cultures is necessary.

Renewvia encourages learning and broadening your scope as much as you want. If you would like to grow in logistics, project management, software development, finance, wind turbine maintenance, or something else I’m not thinking about, we will encourage that and provide opportunities for it.