

## JOB DESCRIPTION

<b>Position Title:</b>	<b>Technology specialist</b>
<b>Reports To:</b>	<b>Programme Technical Manager</b>
<b>Management responsibility:</b>	<b>N/A</b>

Energy 4 Impact works to alleviate poverty in developing countries through increased access to sustainable, renewable energy. To achieve this goal, we support the development and growth of small and medium-sized enterprises that deliver energy products and services to the poor. Energy 4 Impact works to provide access to energy where large utilities are slow or unable to reach. We help grow micro, small and medium-sized energy enterprises in poor rural and peri-urban areas, and in turn improve the quality of life for millions of people. We do this by advising businesses and enabling them to secure the financing and resources they require.

## PURPOSE

In Rwanda, Energy 4 Impact has developed a new programme which goal is to support the growth of a sustained market for off-grid renewable energy by helping the private sector to deliver access to energy to 120.000 people in rural areas, in a way that is inclusive of people living in poverty called Scaling up Off-Grid Energy in Rwanda (SOGER)

This programme will comprise of two project components, designed and developed to respond to the country's challenges and the government's priorities with regards to poverty reduction and energy access in rural areas:

- Component 1: Renewable Energy Small Projects (RESP) Development Facility: to accelerate the development of small grid-connected or isolated mini-grid RESP projects,
- Component 2: Pico-hydro project development: to support the development of pico-hydro micro-utilities

The programme implementation has started and in this context E4I is seeking a Technology specialist to provide the technical expertise required to deliver the Pico Hydro component

The programme will be based on an integrated approach, with a comprehensive package of services to address barriers to development and growth of businesses trying to deliver off-grid energy access in rural areas. This is in particular targeting small, medium and micro enterprises (MSMEs), where the range of challenges faced by these businesses is so big and diverse, that a tailored package of interventions is generally required for each enterprise. Our business model is based on the idea that, with the right support and opportunities, a private sector delivery

model based on market mechanisms is the most effective and efficient way to deliver energy services which are appropriate to the needs of poor communities.

## **ROLE**

The SOGER- Technology Specialist will provide the required technical expertise to support the development of the pico hydro sector by establishing micro-utilities in 10 districts across the country. The micro-utilities will be set up as commercially sustainable businesses, and will create both direct and indirect income opportunities in the communities they serve.

The Technology specialist will also be actively involved in the survey and data collection to inform on the technical designs of the pico hydro projects supported under SOGER.

## **RESPONSIBILITIES**

- Provide technical support in implementing solar/hydro mini-grid projects to the Programme Manager and other team members across the programme
- Assist Technical Programme Manager to identify and select the most feasible and financially viable mini-grid projects, and maintain the roster of mini-grid projects pipeline.
- Carry out surveys, field and site visits and monitoring of Mini grid projects activities and work closely with the developers and communities.
- Evaluate/review of technical designs and specifications of MG projects supported by the programme.
- Review technical design and drawings related to Civil and Electro-Mechanical works of hydro/solar minigrids.
- Assist to finalize technical design and specifications, prepare documents for contracting out the Civil and Electro-Mechanical works related to mini-grid project construction, installation and commissioning.
- Organize and Deliver Technical development training to selected pico hydro developers
- Building relationship with local Government, Health centres and schools in the development process of pico- hydro power sites and engage Sector and District through awareness Campaign
- Provide Technical support to developers throughout the implementation of the projects
- Support Pico Hydro Developers during the site assessment and development of feasibility and business plans and ensure the businesses use their business plans to help them in planning and fundraising.
- Provide technical advice during the implementation of pico hydro project
- Participate in the evaluation, monitoring and data collection of the component 2.
- Support the finance team in assessing and appraising the businesses and ensure that during the project implementation, the budget is followed accurately for the intended purpose.
- Assist in Programme reporting and provide feedback to the Programme technical Manager on all development around the enterprises and activities on the field.

- Building relationship with partners involved in the programme implementation phase.
- Provide effective linkages between the projects, between partners, and developers and identify new partners where possible.
- Ability to travel frequently in remote areas of the country

## REQUIRED SKILLS AND EXPERIENCE

- University degree in Electrical Engineering or other related field with 5 years experience in Hydro Power Sector and off-grid systems and electricity distribution in Rwanda and East Africa
- Expertise in renewable energy, other cross cutting theme such as climate change
- Knowledge of the energy sector in Rwanda, its regulation and Local Government structure.
- Experience of implementing donor-funded and/or technical projects
- Comfort with the entrepreneurial culture of a fast growing organization in an ever-changing industry
- Experience of working with small businesses, and/or energy SMEs, and/or an understanding of renewable energy technologies and business models and/or of infrastructure management commercial arrangements is required.
- High level of inter-personal and presentation skills and an ability to communicate clearly and collaborate at a senior level with colleagues, SMEs, public agencies and other stakeholders;
- A can-do and collaborative mind set – comfort with the ambiguities and demands of a rapidly evolving environment.
- Excellent written and analytical skills is crucial
- Excellent problem solving skills
- Excellent written and spoken English; Knowledge of French is a plus.

Please apply to [recruitment@energy4impact.org](mailto:recruitment@energy4impact.org) not later than 23 June 2017.

Energy 4 Impact is an equal opportunity employer and encourages applications from qualified individuals regardless of race, religion, national origin, sexual orientation or disability.