

Internship	Energy Efficiency Internship: South African - German Energy Programme (SAGEN IV)
Reports to:	Programme Component Manager: Energy Efficiency
Duration	Six (6) months

1. BACKGROUND

The **South Africa German Energy Programme (SAGEN IV)**; funded by the German Government and implemented by the **Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)** in cooperation with the **Department of Mineral Resources & Energy (DMRE)** supports renewable and energy efficiency stakeholders to maximize the opportunities presented by the energy sector. SAGEN IV focuses on renewable energy and energy efficiency and aims to maximize investment in these sectors.

In renewable energy the work centers on improving grid access and stability in the light of more large-scale renewable energy plants being connected to the grid, as well as support to increase high quality rooftop photovoltaic installations. In energy efficiency, SAGEN works closely with the Department of Mineral Resources and Energy (DMRE) to ensure that municipalities and other role-players implement energy efficient measures to reduce electricity consumption as well as greenhouse gas emissions.

Activities in energy efficiency include:

- Support to the the implementation of **Municipal Energy Management System (MEMS) Programme.**
- Coordinate Energy Efficiency activities including logistical arrangements for the component.
- Collaboration with municipalities to introduce energy management systems and energy efficient technologies to reduce municipal consumption of electricity.
- Support to municipalities to invest in energy efficient technologies, for example, energy efficient streetlights.

Against this backdrop SAGEN IV wishes to employ an intern within Energy Efficiency component for a period of six months. The intern will form part of the energy efficiency team expected to coordinate SAGEN's support activities on the implementation of the Municipal

Energy Management System (MEMS) and energy efficient streetlighting and building Energy Performance Certification (EPC). The intention is to expose the intern to the work environment events, and ongoing training programmes within the energy efficiency and renewable energy sector.

A. ROLES AND RESPONSIBILITIES

Main Outputs for the Internship:

The intern will be providing technical and logistical support in the implementation of municipal energy management systems and the development public lighting energy efficiency projects - their tasks will therefore comprise of support to the following activities, but not limited to:

A. TASKS:

- Support on the implementation of energy management systems in selected municipalities.
 - Monitoring and reporting on the status of implementation in the selected municipalities
 - Identification of high priority projects/ projects at advanced stage of development, including next steps for development
- Support on the implementation of energy efficient public lighting projects
 - Development of project plans for maintenance and retrofit support to municipalities
 - Expansion of the LED Walkway - Branding and marketing
- Coordination and participation in MEMS, EPC and public lighting training and exchange workshops.
- Support the development of training concepts for the Energy Efficiency and Demand Side Management (EEDSM) programme.
- Preparation of briefing reports on public sector energy efficiency initiatives.
- Conducting and supporting activities as and when required.

B. Required Qualifications, Competencies and Experience

Qualification/s

- Undergraduate degree in an area related to energy, engineering, environmental, economics or related subject.
- Candidates in the possession of, or in progress of completing a **postgraduate degree** will be favoured.

Competencies and Experience

- Minimum of 1 (one) year experience in **Energy Efficient Project**.
- Experience with project management
- Excellent communication skills (oral and written English)
- Excellent MS-office skills (outlook, power point, word, excel) with digital skills

Knowledge

- Knowledge of a range of **energy efficiency technologies, including small-scale embedded generation**, will be advantageous:
 - Understanding of building energy efficiency, including lighting, HVAC, water heating and building management systems
 - Understanding of energy efficiency in street lighting/ traffic lights
 - Understanding of water/ waste-water treatment plant operations and energy efficiency opportunities
 - Understanding of the application of small-scale embedded generation technologies on buildings.

C. ADDITIONAL INFORMATION

- This position will be based in the GIZ Offices **Pretoria, Hatfield**.
- The internship period for this position is **Six (06) months**.

D. APPLICATION PROCESS

Suitable candidates should apply by submitting a **one (1) page motivation letter** stating why they should be preferred candidate for this internship. This should be accompanied by a **detailed CV indicating nationality** to recruit-pretoria@giz.de with the following subject line “**Application for Internship - Energy Efficiency: South African - German Energy Programme (SAGEN IV)**” for the attention of **Head of Human Resource**.

Closing date for applications: **30 December 2022**.

Only shortlisted candidates will be informed!

Applications without a motivation letter will not be considered!