

Job Advert

Position: The Energy Efficiency Project Support Unit (EEPSU) Technical Advisor

Programme: Programme 3

Division: Energy Efficiency

Location: SANDTON

Period: Fixed Term Contract - 2 years

1. Background of Programme

South Africa's Greenhouse Gas (GHG) emissions are high, in both absolute and per capita terms and this is mainly due to a primarily coal-based electricity supply industry, combined with a prevalent inefficient use of energy across many sectors. Moreover, the country is experiencing electricity supply shortages and has a high unemployment rate.

Public infrastructure, such as buildings, public lighting and water/ waste-water treatment plants, owned by and/or managed by municipalities, provinces, national government and State-Owned Entities (SOEs), contribute to the country's GHG emissions. Despite potential financial savings, and energy and emission reductions that could be achieved through the implementation of demand-side energy efficiency interventions, uptake and implementation to date has been limited. This is due to a range of factors including capacity and resource constraints, data shortages, government procurement complexities, and access to finance.

To address these challenges and to fast track the large-scale roll out of energy efficiency across public institutions, the Department of Mineral Resources and Energy

(DMRE), have developed the Energy Efficiency in Public Buildings and Infrastructure Programme (EEPBIIP). The objective of the EEPBIIP, which commenced in 2019, is to reduce GHG emissions in South Africa by catalysing an energy efficiency transformation within the public-sector environment. This will be achieved through the provision of appropriate technical and financial support, and a programmatic approach to identifying, developing, financing and implementing energy efficiency interventions in a consistent and replicable manner.

Energy Efficiency projects developed through the EEPBIIP will be implemented by Energy Service Companies (ESCOs) via an Energy Performance Contracting (EnPC) model with public sector entities.

Through funding from the Mitigation Action Facility, combined with Technical Assistance from the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, the South African National Energy Development Institute (SANEDI) has been appointed to coordinate the Energy Efficiency Project Support Unit (EEPSU) for the EEPBIIP. The role of the EEPSU will be to support public sector institutions in identifying and developing bankable energy efficiency projects that can be tendered to ESCOs under an EnPC model.

2. Qualifications & Minimum Requirements

- Minimum of a bachelor's degree in any of engineering or related fields
- Minimum 3 years' experience in a technical project development role
- Project management skills
- Working knowledge of energy efficiency project development requirements, including experience with preparation of bankable feasibility studies

- Working knowledge of key energy efficiency technologies in buildings, public lighting and waste-water treatment plants
- MS Excel skills

3. Knowledge & Skills Required

- Knowledge on the South African energy sector, specifically energy efficiency and small-scale embedded generation
- Understanding of technical, financial and legal project development requirements
- Knowledge of public sector procurement processes an advantage
- Quantitative analytical skills
- Technical report writing
- Ability to present information in a clear and concise manner
- Team player with a commitment to working in a diverse team
- High level of problem solving and analytical skills
- Good communication skills
- Ability to multitask and meet deadlines.
- Attention to detail

4. Responsibilities and Duties

4.1 Support the delivery of the technical assistance components of the Energy Efficiency in Public Buildings and Infrastructure Programme (EEPBI) under the EEPISU to assist public sector institutions identify, develop and implement large-scale energy efficiency projects under an EnPC model:

- a. Support the development of a pipeline of potential projects with eligible public sector institutions;

- b. Provide technical guidance and strategic input to public sector institutions on the identification, development and implementation of large-scale energy efficiency projects through an EnPC model, including energy audits, baseline development and preparation of business plans;
 - c. Support the establishment of mechanisms and framework to support the growth of the ESCO sector, with a specific focus on active participation of small and emerging ESCOs in the EEPBIP;
 - d. Provide guidance and support to the Capacity Building and Awareness raising team on supporting the establishment and implementation of Energy Management principles in public sector institutions.
- 4.2 Provide guidance in the development and implementation energy efficiency regulations, policies, strategies and plans to reduce energy usage in the public sector and support investment in energy efficiency interventions:
- 4.3 Support public sector institutions in identifying gaps and developing appropriate policies and regulations;
- 4.4 Provide input to national discussions on the policy landscape and regulatory development.
- 4.5 Support effective monitoring of the implementation of EEPBIP and achievements of energy savings in the public sector in line with the programme framework:
- 4.6 Ensure that outputs and targets are realized by respective work-streams, and monitor, evaluate and report on progress, both for the DMRE and also for the Mitigation Action Facility (through GIZ);
- 4.7 Provide input to monthly and quarterly reports aligned to EEPBU/ EEPBIP annual business plans.
- 4.8 To support and conduct research activities as and when required on technical activities.

Please email a detailed CV to: EEPSUtechnical@sanedi.org.za

The closing date for this position is: **05 June 2024**

Should you not hear from SANEDI within 30 days after closing date of this advert, please consider your application unsuccessful.

Disclaimer: Eligible candidates from different races and creed under the age of 65 are encouraged to Apply, All applications will be subject to SANEDI recruitment policies.