



## **Southern African Power Pool**

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### **Vacancy: Systems Operations Engineer**

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#### **1. INTRODUCTION**

The Southern African Power Pool (SAPP), was established in April 1995 under the Southern African Development Community (SADC) Treaty with the aim to optimize the use of available electrical energy resources amongst the SADC member countries and to support one another during emergencies. The organisation is seeking for applications from suitably qualified persons to fill the position of **Systems Operations Engineer**.

The **Systems Operations Engineer** shall monitor and report the operational performance of the interconnected power grid, advise on application of the Operating Guidelines, and perform power system studies to ensure reliability of the grid and will be based at the SAPP Coordination Centre in Harare, Zimbabwe. The person shall report to the SAPP Chief Engineer.

#### **2. KEY RESULT AREAS FOR THE POST:**

- i. Monitoring, evaluating and reporting control performance of the SAPP interconnected power grid including performance of protection systems on tie lines.
- ii. Sourcing and consolidating maintenance schedules; coordinating and publishing planned outages of key equipment on the interconnected power system.
- iii. Performing advanced power system simulation studies necessary for predicting potential operational problems, scheduling outages, investigating system disturbances, determining power transfer limits, and/or giving input to other models in-use at SAPP Coordination Centre such as the transmission pricing model.
- iv. Monitoring and reporting interchange of inadvertent, imbalance and emergency energy among SAPP operating member utilities and being custodian of the official account of inadvertent, imbalance and emergency energy interchange.
- v. Advising on implementation of the SAPP Operating Guidelines and applying agreed warnings and penalties for non-compliance with requirements in the guidelines.
- vi. Carrying out preliminary research necessary for improving on existing operational procedures or for introducing new ones to solve identified interconnected power system operational problems.
- vii. Calculating and publishing of Accredited Capacity Obligation (ACO) and operational reserves of SAPP operating member utilities.
- viii. Reporting SAPP power system disturbances and participating in investigation of initiating events and root causes.
- ix. Identifying capacity building needs of the SAPP Operating Sub-Committee (OSC) and operational staff in relation to interconnected power system operations and composing budgets, proposals for funding, and/or logistical arrangements necessary for delivery of such capacity building activities.

- x. Performing secretarial duties of the OSC and assisting the OSC Chairperson in convening meetings and timely implementing resolutions and action items of the OSC and its working groups or task teams.
- xi. Liaising with pool Energy Marketing Operations and Power System Planning Functions for smooth operation of the SAPP grid.
- xii. Representing SAPP at various local, regional and international conferences, seminars, workshops or meetings as assigned from time-to-time by the Chief Engineer or by Management.
- xiii. Assisting in procurement of consultants and services, managing projects and contracts at the SAPP Coordination Centre or in the Operations Function of the SAPP as assigned from time-to-time by the Chief Engineer or by Management.
- xiv. Preparing, proposing or contributing to a budget for the Power Systems Operations Function at SAPP Coordination Centre.
- xv. Other duties as assigned

### 3. QUALIFICATIONS AND EXPERIENCE

The Systems Operations Engineer shall have the following minimum qualifications, experience and technical competencies:

Qualifications	<ul style="list-style-type: none"> <li>i. Bachelor's degree in Electrical Engineering or equivalent from a recognised university.</li> <li>ii. Valid registration with a recognised professional engineering body or institution.</li> <li>iii. Master's degree in engineering is an added advantage.</li> <li>iv. Senior authorisation certification for high voltage switching is an added advantage.</li> <li>v. High level computer literacy, ability to work with minimum supervision, and with a good command of both spoken and written English</li> <li>vi. Should be a SADC national and should possess a valid passport to travel within the SADC region and beyond.</li> </ul>
Experience	<ul style="list-style-type: none"> <li>i. At least five (5) years experience in power system control and operations</li> <li>ii. Hands-on experience in advanced power system simulation using PSSE or DigSilent software.</li> </ul>

### 4. PERIOD OF THE ASSIGNMENT

The duration of the assignment is for an initial period of 5 years with a probation period of 3-months. The successful candidate shall be a full-time employee of SAPP based at SAPP Coordination Centre Offices in Harare, Zimbabwe.

Interested candidates **from SAPP members, the SAPP CC and SAPP PAU** should submit their applications and curriculum vitae clearly marked on the envelope, "Systems Operations Engineer Vacancy", not later than 1500hrs on 02 November 2018 to;

**The SAPP Coordination Centre Manager**  
 Southern African Power Pool  
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 Emerald Hill, Harare

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