



EXTERNAL VACANCY

The Eswatini Civil Aviation Authority (ESWACAA), a Category A public enterprise invites suitably qualified, well experienced, and willing-to-learn candidates to apply for the position of **Principal Engineer – Electrical Systems**. The position reports to the Chief Electrical Engineer and is tenable at King Mswati III International Airport.

1. JOB PURPOSE:

This is an electrical role responsible for effectively leading, conducting, supervising, and coordinating maintenance activities of the Authority's electrical system in order to retain non-failed electrical apparatus in a reliable and safe operational condition and to restore failed apparatus to safely fulfil their function at the desired standard of performance to ensure the regularity, safety, and security of Aviation.

The incumbent will:

- Evaluate the quality of preventive maintenance inspections conducted on Airport electromechanical equipment and act accordingly in case of a digression from safety performance requirements to reduce the probability of failure or performance degradation.
- Verify and validate all maintenance work done by technical staff before the system is brought back online to ensure safety for airlines and people.
- Install, diagnose, and repair the various electromechanical apparatuses in use at the airport.
- Conduct a safety risk assessment on electromechanical systems to expose operational safety risks and develop control/mitigation measures to prevent service disruptions.
- Follow-up on maintenance activities to ensure that maintenance tasks are executed, and a record of maintenance is generated.
- Prepare reports when requested.
- Supervise maintenance conducted by external service providers to ensure quality and value for money.
- Record equipment sent out for repairs and follow up with repair service providers.
- Research about current practices in electrical/mechanical system maintenance to improve the quality of maintenance and transfer knowledge to others.
- Participate in safety risk management assessment to expose and monitor safety hazards.

- Participates in maintenance planning meetings.
- Participate in the conduction of electrical apparatus condition assessments to determine the need and timing of preventive and remedial maintenance actions to maintain the desired level of service.
- Conduct job safety assessments to identify and mitigate/eliminate occupational hazards.
- Maintain all tools and equipment in proper working order, calibrated periodically for compliance with all safety requirements.
- Review safe work method statements from external service providers.
- Promote effective and efficient maintenance to reduce energy consumption costs.
- Identify areas of significant energy use and consumption
- Research and propose energy-saving strategies.
- Operate the maintenance vehicle efficiently to save fuel.
- Prepare economic re-order levels for spares to ensure maintenance tasks are completed in a reasonable time.
- Participates in the preparation of the airport electrical budget.
- Provide support during airport emergency operations.

2. QUALIFICATIONS AND EXPERIENCE

The ideal candidate must meet the following minimum requirements:

i) Qualification

- BSc Engineering Degree in Electrical/Electromechanical Engineering or Equivalent
- Certification in Regulations for high voltage systems

ii) Work Experience

- 5 years experience in an electrical environment
- Experience in working with international standards including ICAO.

iii) Added Advantage

- Experience in Airport Operations

3. SKILLS, KNOWLEDGE, AND PERSONAL ATTRIBUTES:

The ideal candidate must demonstrate the following competencies, knowledge, and personal attributes:

- Troubleshooting skills.
- Proficiency in computer skills including the use word processing software to compose, organize, edit, and print documents and other business communications.
- Identifying potential hazards and or risks related to electromechanical work.
- Effective communication skills- written and verbal.
- Skill in operating specialized mechanical measurement equipment.
- Knowledgeable about electrical occupational safety rules.

- Knowledgeable about components needed in automation processes.
- Knowledgeable about automatic transfer logic.
- Knowledgeable about low and medium voltage regulations.
- Knowledgeable about the mission, structure, and functions of the organization.
- Knowledgeable about the relevant regulatory and legal requirements of the airport.
- Airside, mechanical and electrical hazards.
- Occupational health and safety standards related to office occupation.
- Able to interpret wiring and control systems drawings, specifications, and manuals.
- Apply basic scientific principles and technology to complete tasks.

Applications with complete up-to-date Curriculum Vitae, and certified copies of academic certificates/professional accreditation, must be emailed to recruitment@eswaca.co.sz not later than **Friday, 8 September 2023**. Please quote the position **"Principal Engineer – Electrical Systems"** in the email subject line.

N.B. Only emailed applications will be admissible.

Only shortlisted candidates will be contacted.