

***Are you a quality driven individual?***

***Do you have a passion for perfection?***

**If you answered Yes to these questions, you could be just the individual we are looking for.**

### **Engineer: Electronic/Mechatronics**

**Salary Range: R 424,708 to R 530,885 per annum (all inclusive)**

#### **OVERVIEW OF THE ORGANISATION**

NMISA is a Type 3A Public Entity established in accordance with the Measurement Unit and Measurement Standards Act, No. 18 of 2006 (the Act). NMISA is mandated by the Act to provide for the use of the international system of units (the SI) and other measurement units in South Africa, to maintain national measurement standards (NMS) and to determine and ensure the comparability of the NMS. More information can be obtained from [www.nmisa.org](http://www.nmisa.org)

#### **PURPOSE OF THE POSITION**

To disseminate traceability relating to the National Measurement Standards in the field of Acoustics and Vibration to industry, thereby supporting South African trade and to facilitate the implementation and maintenance of the requirements of the NMISA TQMS within the Acoustics, Ultrasound and Vibration Section to ensure the effectiveness and smooth functioning of relevant NMISA processes.

#### **MINIMUM QUALIFICATIONS, SKILLS AND EXPERIENCE**

- Three year tertiary qualification in the following fields: B.Eng (Mechatronics or Electronic) or B.Tech (Electronic, Electrical or Electro-Mechanical) with a clear understanding of mechanical systems),
- Minimum of 3 years work experience in laboratory/technical environment (in acoustics, vibration or metrology will be an added advantage).
- Proven Software development experience and instrument automation and control.
- Strong mathematical background
- PC literacy in Microsoft™ Office Suite software and Microsoft™ operating systems.
- Must be able to visualise and grasp three dimensional concepts with good dexterity and problem-solving skills.
- Experienced in technical report writing.
- Must be able to work independently and as part of a team.
- Must pay attention to detail.
- The following will be an advantage:
  - Working knowledge of ISO/IEC 17025 and NMISA Total Quality Management System.
  - An understanding of GUM and the Estimation of Measurement Uncertainty. Working knowledge of relevant International Published Standards (IEC and ISO).

#### **DUTIES AND RESPONSIBILITIES:**

- Development of measurement standards, techniques and procedures.
- Maintenance of national measurement standards.
- Calibration of equipment for clients

- Scientific reporting and record keeping.
- Maintenance of laboratory equipment.
- Providing transfer of knowledge to industry by presenting technical papers at workshops and conferences and in local or international publication, preferably peer reviewed.
- Participate in selected NMISA wide technical forums.
- Provide input and assist in maintaining laboratory plans for budget, capital, the NMISA financial system as relevant to the areas of responsibility.
- Comply with the requirements of the NMISA TQMS and ISO/IEC 17025 to ensure process consistency and effectiveness.
- Procure the equipment required for maintenance, development, improvement and research related activities in line with public entity procurement legislation and guidelines as captured in the NMISA finance policies.
- Estimation of uncertainty of measurement and development of uncertainty budgets.
- Compilation of calibration certificates and technical reports.
- Maintenance of laboratory quality system and good laboratory practice.

We are looking for a dynamic, positive thinking individual, who is pro-active and has analytical problem-solving abilities. He/she should be a dynamic self-starter requiring little supervision. A unique individual with a hands-on approach, balanced with the ability to understand complex technical systems is desired. Good communication and people skills are essential. Excellent writing skills and fluency in English is required. The candidate must have the ability to work both as part of a team and independently. This position is set within a unique technical environment and requires a person who can combine the responsibility of routine calibrations with development activities for improved measurement standards.

**Please note:**

NMISA subscribes to and applies the principles prescribed by the Employment Equity Act. Preference will be given to previously disadvantaged candidates who meet the requirements and who will add to the cultural and gender diversity of the organisation. The NMISA is focused on recruiting the following candidates in order of preference: Coloured, African, & Indian.

**Interested and suitably qualified persons may forward all supporting documentation required (updated CV, certified educational qualifications, certified academic record and certified ID.) when applying for the position email NMISA Human Resource at [careers@nmisa.org](mailto:careers@nmisa.org) Only candidates with all supporting documents will be considered for the position. Clearly indicate which position you are applying for.**

People with disabilities are encouraged to apply

Closing date for applications: **31 August 2021**

Correspondence will be limited to short-listed candidates only.

By applying for this position at NMISA, the applicant understands, consents and agrees that NMISA may solicit a credit and criminal report from a registered credit bureau and/or the SAPS in relation to positions that require trust and honesty and/or entails the handling of cash or finances and may also verify the applicant's educational qualifications and employment history. More information contact Human Resources on telephone number (012) 841 4152/2254