

JUNIOR SCIENTIST: DOSIMETRY STANDARDS

Salary Range R 406 553 to R 553 446 per annum (all inclusive)

Overview of the Organisation

The NMISA is a Type 3A Public Entity established in accordance with the Measurement Unit and Measurement Standards Act, No. 18 of 2006 (the Act). The 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

The Position

The successful candidate will be required to maintain National Measurement Standards for ionising radiation and disseminate traceability from these standards to industry, thereby supporting South African trade.

Minimum Qualifications, knowledge and Experience

- An Honour's degree in Physics is a minimum requirement
- Up to five (5) years working experience in an ionising radiation field (Dosimetry and/or physical nuclear applications)
- Working experience in calibration of relevant equipment used in the nuclear industry/radiation field will be an advantage
- Proven hands-on experience in using and calibrating equipment used in dosimetry measurements will be an advantage
- Computer literacy in MS Office is essential
- Experienced in producing accurate scientific reports
- Working knowledge of the total quality management system (ISO/IEC 17025 will be an advantage)
- Understanding of statistical applications in measurements, estimation of uncertainty and preparing of uncertainty budgets will be an advantage.
- Registration with professions organisations such as SACNASP, METCERT or HPCSA will be an advantage

Responsibilities:

- Maintenance of measurement standards and disseminating traceability to industry through calibration of measuring equipment relevant to areas of responsibility
- Assist to develop new and/or improve measurement capabilities in dosimetry measurements
- Requisite expertise and competencies established and maintained according to internationally acceptable standards
- Liaise with international NMI's and perform international comparisons as relevant to the areas of responsibility to maintain the confidence in the equivalence in capabilities between National Metrology Institutes
- Keeping abreast with international developments in Dosimetry and/or neutron dosimetry and identifying standards in line with the needs of the South African community for radiation dosimetry
- Client liaison, quotations and problem solving to ensure the dissemination of relevant information and effective contract review
- Actively participate in regional and international forums to ensure global competitiveness.

- Writing of procedures in the areas of responsibility
- Ensure that all scientific reporting is accurate
- Maintenance of personal training file to ensure ongoing record of competence.
- Comply with the requirements of the NMISA TQMS to ensure process consistency and effectiveness
- Maintenance of a radiation safety culture within the area of responsibility

Person Specification:

We are looking for a dynamic, positive thinking individual, who has the ability to manage complexity, attentive to details and meticulous during measurements, documentation and reporting. A unique individual with strong need for compliance to ensure strict adherence to relevant policies, procedures and safety regulations within the laboratory environment and the organisation. Independence and pro-activeness in order to plan and direct own work activities and meet the full requirements of the position at an acceptable level. The candidate must have the ability to work both as part of a team and independently.

Please note:

The NMISA subscribes to and applies the principles prescribed by the Employment Equity Act. Preference will be given to candidates who meet the requirements and who will add to the cultural and gender diversity of the organisation.

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

Closing date for applications: **07 February 2025**

Correspondence will be limited to short-listed candidates only. National Metrology Institute of South Africa reserves the right not to appoint. By applying for this position at the NMISA, the applicant understands, consents, and agrees that the NMISA may solicit a credit and criminal report from a registered credit bureau and/or the relevant authority in relation to the position 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. You voluntarily give NMISA consent to process your personal information and all the applications will be processed in accordance with the Protection of Personal Information Act 4 of 2013 (POPIA).