

SCIENTIST: DOSIMETRY STANDARDS

Salary Range R 661 620 to R 743 318 per annum (all inclusive)

Overview of the Organisation

NMISA is a Type 3A Public Entity established per the Measurement Units 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.

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

- Honour's degree in Physics is a minimum requirement
- MSc in Physics will be an advantage
- A requirement of more than five (5) years of working experience in an ionising radiation field (dosimetry and/or related nuclear applications)
- Knowledge and experience in the calibration techniques of relevant equipment used in the nuclear industry/ radiation field
- Proven hands-on experience in using and calibrating equipment used in dosimetry measurements
- Knowledge of ionising radiation metrology and the international measurement system
- Ability to network on an international and national level, planning and execution (proposal preparation, budgeting, etc.) of research projects
- Experience in working with MS Office packages, especially Excel for data analysis; working experience in programming will be an advantage
- Proven track record of producing accurate scientific and technical reports
- Working knowledge of the total quality management system ISO/IEC 17025
- An understanding of statistical applications in measurement, the estimation of uncertainty, and the preparation of uncertainty budgets
- Registration with professions organisations such as SACNASP, METCERT, or HPCSA will be an advantage
- Experience in training and mentoring will be an advantage.

Responsibilities:

- Maintenance of measurement standards and disseminating traceability to industry through calibration of measuring equipment relevant to areas of responsibility
- Research and development of new measurement capabilities in dosimetry
- Improve calibration measurement techniques used to disseminate traceability to industry
- Liaise with international National Metrology Institutes (NMI's) and perform international comparisons as relevant to the areas of responsibility to maintain confidence in the equivalence in capabilities between National Metrology Institutes
- Remaining abreast of 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 and review of procedures in the areas of responsibility
- Ensure that all scientific reporting is accurate
- Maintenance of personal training file to ensure an 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.

Incumbent Specification:

We are looking for a dynamic, positive-thinking individual who can manage complexity, is attentive to details, and is meticulous during measurements, documentation, and reporting. A unique individual with a strong need for compliance to ensure strict adherence to relevant policies, procedures, and safety regulations within the laboratory environment and the organization. Exhibiting independence and proactiveness to plan and direct their 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

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 concerning the position that requires trust, and honesty and/or entails the handling of cash or finances and may also verify the applicant's educational qualifications and employment history. That you voluntarily give NMISA consent to process your personal information, and all applications will be processed in accordance with the Protection of Personal Information Act 4 of 2013 (POPIA).