

*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.

### **POST DOCTORAL STUDENTSHIP: ORGANIC ANALYSIS (3 YEAR CONTRACT)**

**Salary: R400 000.00 per annum**

#### **PURPOSE OF THE ROLE**

To research, develop and implement reference measurements for Organic Analysis in key sectors of pharmaceuticals, food safety and environmental pollution monitoring and deliver these services through the NMISA Africa Reference Institute, thereby supporting fair and safe trade of South African products and services. The post-doctoral student would also be required to assist with skills development and knowledge transfer to younger staff and recently graduated students.

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

- PhD Chemistry/ Biochemistry/ Pharmaceutical/Food Science/ Environmental Science degree or equivalent scientific qualification in applicable field of study with Chemistry as minimum 1<sup>st</sup> year subject – the PhD degree was obtained after April 2020 and by 31 March 2023.
- Experience with gas and/or liquid chromatography, mass spectrometry and related sample preparation techniques for quantitative analysis as applied during the PhD experimental work.
- Experience in a laboratory/technical environment (3 years minimum which may also include own experimental work for PhD).
- Experience in conducting research and literature reviews as evidenced through publication record.
- Level 1- or first-year Mathematics/Statistics as subject would be an advantage.
- Excellent report writing skills.
- Excellent communication skills.
- Computer literacy, including Microsoft Word, Excel and PowerPoint.

#### **DUTIES AND RESPONSIBILITIES**

- Conduct research and provide comprehensive, accurate reports on the outcomes
- Research and develop new methods of analysis in pharmaceutical, environmental monitoring and food safety applying quantitative organic analytical techniques such as gas chromatography, liquid chromatography, mass spectrometry etc.
- Generate and validate standard operating procedures for the performance of measurements in field of Organic Analysis.
- Operate analytical instruments to perform measurements in the field of Organic Analysis metrology.
- Maintain detailed records of equipment and measurement results.
- Generate certificates and/or reports for the purpose of reporting measurement results.
- Generate measurement uncertainty budgets according to the GUM.

- Liaise with stakeholders in SA and relevant Regional and International organizations, to provide input for NMISA and gather information as input to NMISA's strategic planning.
- Participate in skills transfer both as a recipient and a trainer by attending courses and conferences presenting at conferences, by developing and presenting courses internally and externally and by publishing peer-reviewed papers
- Comply with NMISA's policies and procedures and perform all duties in line with the Total Quality Management System.
- Initiate and follow up on the timely procurement of any equipment, instruments, consumables or other expenses required to execute the duties above.

## PERSON SPECIFICATIONS

The ideal candidate will possess the following qualities and competencies.

- Dynamic positive thinking individual who is proactive with analytical problem-solving abilities
- Motivated self-starter with initiative
- Displays a willingness to lead, take charge, offer opinions
- Is responsible, reliable and dependable in fulfilling obligations
- Individual with a hands-on approach, balanced with the ability to understand complex technical systems
- Good communication and people skills are essential
- Good writing skills and fluency in English are required (reading comprehension)
- Strong verbal and written reasoning ability
- Systematic approach to work
- Must have the ability to work both as part of a team and independently
- A professional taking pride in all work outputs
- Strong attention to detail
- Has integrity, being honest and ethical

### **Please note:**

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, 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.**

Closing date for applications: **30 June 2023**

People with disabilities are encouraged to apply.

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 SAP 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. You expressly give NMISA consent to process your personal information stored in our history of all who have applied will be processed in accordance with the Protection of Personal Information Act 4 of 2013 (POPIA)