



SEFAKO MAKGATHO HEALTH SCIENCES UNIVERSITY

OFFICE OF THE DVC: ACADEMIC AND RESEARCH

ELECTRON MICROSCOPE UNIT

(RE-ADVERT)

Sefako Makgatho Health Sciences University (SMU) is on a renewal path with exciting and unique opportunities to shape the training of medical and other health professionals, and scientists in general. We are on a vigorous campaign to attract top talent to join our exciting journey, as reflected in the opportunities below:

Senior Medical Natural Scientist (1 Post)

Ref: 14/2023/JSM/P7

The incumbent will be responsible for the operation of electron microscopes and ancillary preparation equipment, practical instruction and training to long-term users, and conducting research in line with the University's teaching and research strategy. He/she will report to the Director, and must meet the requirements and be responsible for the following key performance areas:

REQUIREMENTS

- Doctoral degree in Life or Materials Science
- At least five (5) years' working in a multi-user Electron Microscopy laboratory
- Experience in electron microscopy techniques such as e.g. SEM, TEM, STEM, EDS, HRTEM, Cryo-SEM, Cryo-TEM and tomography
- Proficiency in preparation of variable samples for light and electron microscopy, including ultramicrotomy and/or cryo-ultramicrotomy
- Evidence of collaborative research and publication output
- Knowledge in the use of specialised instrumentation and laboratory methods
- Proven ability to navigate online platforms such as Blackboard Collaborate, Zoom and Microsoft Teams with requisite proficiency
- Computer literacy, with a sound knowledge of MS Word, MS Excel and Internet
- A skills test may be performed

COMPETENCIES

- Technical/professional knowledge and skill
- Proven ability to work with minimum supervision both independently and as part of a team
- Good writing, communication and presentation skills
- Accurate interpretation of results and demonstrable ability in solving research problems
- Keeping abreast of developments within microscopy field
- Good interpersonal and communication skills
- Ability to identify problems and troubleshooting

KEY PERFORMANCE AREAS

- Liaise with researchers to assess microscopy needs, and advise on suitable analytical- and preparation methods for their samples
- Maintain optimal operation of electron microscopes and ancillary equipment
- Provision of theoretical instruction and practical training in the use of light- and electron microscopes to long-term users
- Provide training in the operation of equipment available in the Unit
- Supervision and mentorship of students in research and presentation
- Assist users with interpretation and analysis of results
- Analysis and data processing
- Conduct research independently and through collaboration with colleagues within the university, as well as national and international collaborators in line with the University's strategic objectives
- Write publications for peer-reviewed journals
- Produce scientific progress reports for funders, as well as reports for internal and external stakeholders applying for local and international grants
- Promote the available microscopy services
- Contribute to the overall development of SMU and actively improve institutional culture
- Perform any other duties assigned by the Line Manager

Closing date: 17 March 2024

Applications from Employment Agency will not be considered.

Typed applications (quoting the reference number) which should contain a comprehensive curriculum vitae, certified copies of all qualifications and contact details of three referees, should be forwarded, for the attention of Mr JS Mahlaola, to the Human Resources Department, P.O Box 68, Medunsa, 0204, to the Human Resources Department, P.O Box 68, Medunsa, 0204 **or** by e-mail at hr.recruitment3@smu.ac.za

The applications may also be posted or hand delivered to (place in an application box):

Human Resources Department, 5th Floor, Clinical Pathology building, Sefako Makgatho Health Sciences University, Molotlegi Street, Garankuwa, OR Human Resources Department, P. O. Box 68, MEDUNSA, 0204.

It is the applicant's responsibility to have foreign qualifications evaluated by the South African Qualification Authority (SAQA). Failure to submit the requested documents/information will result in your application not being considered.

Telephonic enquiries regarding conditions of service: (012) 521-3906.

The Sefako Makgatho Health Sciences University is an Equal Opportunity and Affirmative Action Employer.

Correspondence will be limited to short-listed candidates only. Applicants who have not been contacted within 30 days of the closing date must consider their applications as unsuccessful.

Sunday, 25 Feb 2024

The University reserves the right not to make an appointment

Final