



VISION

Shape and own the future

To be a transforming, equitable, sustainable, and academically excellent University of Technology anchored in its communities.

MISSION

To offer technological, career-directed educational programmes focussing on the innovative problem-solving research and engage with government, business, industries and communities as end-users.

FACULTY OF NATURE CONSERVATION POSTDOCTORAL RESEARCH FELLOWSHIP (Computational Modelling in Phytomedicine) One-Year Fixed Contract

Key Performance Areas:

- Interact with collaborators to design experiments and develop process designs.
- Draft grant applications in this broad research area.
- Publish a minimum of 2 manuscripts per year in reputable journals and peer-reviewed conference proceedings in this field.
- Manage an internal database containing the results of laboratory experiments and molecular simulations that can be used to model new applications.
- Ability to co-supervise relevant postgraduate research and/or collaborating with other postdoctoral fellows.
- Involvement in initiating and managing research projects.
- Assisting in overall management and contribute to the various activities of the Research projects.
- Initiating, developing and/or being involved in research networks, collaborations (i.e. formulating spin-offs, and joint ventures), institutional partnerships, and the organization of research events.

Minimum Requirements:

- A recently earned PhD in Biological Science (specializing Biochemistry, Botany/Plant Biology, Phytomedicine and Plant Biotechnology), or in Chemistry (Computational modelling). At the time of the award, the candidate should have graduated with his/her doctorate degree no longer than within the previous five years.
- International Postdoctoral Research Fellows must have a long-term visitor's visa endorsed for academic activities affiliated with MUT (Section 11(1)(b) Visitors Visa)
- A solid knowledge of molecular dynamics simulation.
- At least 4 published journal papers in the last 24 months.

- Has not held full-time permanent academic or professional employment.
- Established track record of publications and conference contributions related to the outlined research areas.
- Experience in postgraduate student mentorship.

Competencies:

- Excellent oral and written communication skills.
- Coherent use of multiple computational approaches, such as molecular dynamics simulations.

Salary Scale: R300 000.00 basic salary per annum – with no benefits

Interested applicants should send (a) a motivation detailing the extent to which they meet the requirements of the position; (b) an application form (downloadable from www.mut.ac.za); (c) a Curriculum Vitae; (d) certified copies of academic qualifications plus academic records, proof of professional registration with a relevant professional body where applicable and copy of a valid driver's license. **(Please provide academic transcripts and SAQA evaluation certificate, if qualifications were obtained outside South Africa)**; and (e) names of three contactable referees via email: hr@mut.ac.za copied to singh.karishma@mut.ac.za

Enquiries: Tel: (031) 907 7560 / 7565

Closing Date: 12 April 2024

Mangosuthu University of Technology is committed to meeting the objectives of Employment Equity to improve representivity within the institution. Preference will be given to applicants from designated groups in accordance with our Employment Equity targets including people with disabilities.