



C1 (B)

Internal/External

**APPLICATION TO ADVERTISE AN ACADEMIC /ADMINISTRATIVE POST**

**TO BE COMPLETED BY THE LINE MANAGER AND FORWARDED TO THE DEPARTMENT OF FINANCE WITH THE FOLLOWING DOCUMENTS:**

- (i) *Job Description*
- (ii) *Organogram*
- (iii) *Full website advert (typed on specimen form)*

**POST: POSTDOCTORAL RESEARCH FELLOW**

**POST NO:**

**DEPARTMENT: CHEMICAL ENGINEERING**

**MINIMUM REQUIREMENTS**

- . *A recently earned PhD in Chemical Engineering.*
- . *At the time of the award, the candidate should have graduated with his/her doctorate degree no longer than within the previous five years.*
- . *South African citizens and permanent residents will have priority.*
- . *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)*
- . *Has not held full-time permanent academic or professional employment.*
- . *A solid knowledge of electrochemical engineering processes*
- . *At least 3 published papers related to renewable energies in the last 24 months.*
- . *Established track record of publications and/or conference contributions related to the outlined research areas. · Experience in postgraduate student mentorship.*
- . *Working knowledge and experience with technical software such as Matlab, Comsol and Aspen Plus.*

**QUALIFICATIONS**

*PhD in Chemical Engineering*

**WORK EXPERIENCE:**

*Non applicable.....*

**DUTIES:**

- Interact with collaborators to design experiments and develop reverse electro dialysis-based processes for electricity or hydrogen production.
- Publish manuscripts in reputable journals and peer-reviewed conference proceedings in this field.
- Explore the possibility of producing electricity using reverse electro dialysis for landlocked regions.
- Manage an internal database containing the results of laboratory experiments, process modelling and process simulations.
- Co-supervise relevant postgraduate research and/or collaborating with other postdoctoral fellows.
- Be involved in initiating and managing research projects.
- Assist in overall management and contribute to the various activities of the Research projects.
- Initiate, develop and/or be involved in research networks, collaborations (i.e. formulating spin-offs, and joint ventures), institutional partnerships, and the organization of research events

**HOD/ HOST:** Armel Tumba Kaniki

**DATE:** 9<sup>th</sup> February 2024

**DEAN:** Babatunde F. Bakare

**DATE:** 19<sup>th</sup> February 2024

**Decision:** Approved

**SIGNATURE:** 

I confirm that provision has been made in the budget for the above post and that funds are available for the remainder of the financial year.

**RECRUITMENT & SELECTION:**.....**DATE:**.....  
(Budget Verification)

**SENIOR DIRECTOR: HUMAN RESOURCE & DEV:** .....**DATE:**.....  
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Comments if any:

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