

The University of KwaZulu-Natal (UKZN) is committed to Employment Equity with the intention to promote representivity within the Institution. Preference will be given to applicants from the designated groups in accordance with our Employment Equity Plan

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**RESEARCH ASSISTANT: MODEL AND SIMULATOR DEVELOPMENT SUPPORT  
3 MONTH FIXED TERM APPOINTMENT (FRACTIONAL [20 hours/week]  
WASH R&D CENTRE, CHEMICAL ENGINEERING  
SCHOOL OF ENGINEERING  
HOWARD COLLEGE CAMPUS  
REF NO.: WASH 2/2025**

The Water Sanitation & Hygiene Research & Development (WASH R&D) Centre in the School of Engineering is an externally funded team of professional researchers working on multidisciplinary research projects in the urban and industrial water and sanitation sector.

The Centre is looking for a chemical engineering graduate with a background in mathematical modelling to provide support in the development of mathematical models in the field of Water Sanitation and Hygiene. The successful applicant would be responsible for researching the recent literature to obtain the kinetics, thermodynamics and mass transfer characteristics required to development models using a reaction engineering framework (mixed flow, plug flow, residence time distribution based). The final outcome must be a series of models which accurately predict the performance of tech units in the WASH field.

**Minimum Requirements**

- Masters in Chemical Engineering degree
- Experience in mathematical modelling
- Experience in creating model simulations using modern programming languages

**The total remuneration package will be in accordance with the University rates of pay.**

**The closing date for receipt of applications is Friday 16<sup>th</sup> May 2025.**

**Applicants are required to complete the ACADEMIC application form which is available on the Vacancies website at [www.ukzn.ac.za](http://www.ukzn.ac.za). Completed forms, and any queries may be sent to Lungi Ndlela on email [ndlelali@ukzn.ac.za](mailto:ndlelali@ukzn.ac.za)**






**The University reserves the right not to make an appointment to this advertisement**

Kindly note that the University of KwaZulu-Natal ("the University") is required to process any Personal Information (as defined by the Protection of Personal Act, 2013 "POPIA") submitted by candidates when applying for positions at the University. The University will endeavour to ensure that the appropriate security measures are in place and implemented for both electronic and paper-based formats that are used for processing of the personal information recorded through this recruitment and selection process. We refer you to the University's relevant Section 18 notice at [http://vacancies.ukzn.ac.za/Libraries/General\\_Documents/Section\\_18\\_Notice\\_-\\_Employees\\_and\\_Potential\\_Employees.sflb.ashx](http://vacancies.ukzn.ac.za/Libraries/General_Documents/Section_18_Notice_-_Employees_and_Potential_Employees.sflb.ashx)

**WASH R&D Centre (Howard College Campus)  
Discipline of Chemical Engineering, School of Engineering  
College of Agriculture, Engineering & Science**

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**Founding Campuses:**  Edgewood  Howard College  Medical School  Pietermaritzburg  Westville