

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

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

**POSTDOCTORAL FELLOWSHIP
01 OCTOBER 2024 – 30 SEPTEMBER 2025
SCHOOL OF ENGINEERING
THERMODYNAMICS RESEARCH UNIT
HOWARD COLLEGE CAMPUS**

REF NO.: TRU06/2024

The Thermodynamics Research Unit (TRU) within the School of Engineering has a postdoctoral fellowship position available in the area of separation applications for water management in the green hydrogen economy. The incumbent will be required to work closely with the project leaders in the Unit to conduct a study for quantitative information of the water cycle and the viability of the process routes, and water pre-treatment waste management strategies for green hydrogen production within an eco-hub in the KZN corridor.

Minimum Requirements:

- PhD in Chemical Engineering or a suitable aligned discipline, obtained in the past 5 years
- An adequate number of publications in the relevant area of expertise
- Experience in measurements involving wastewater, green hydrogen, bioremediation, desalination R/O, waste management, or techno-economic and life cycle/impact analyses
- Knowledge of analytical measurements
- Knowledge of experimental design and experimental techniques in the broad area of renewable/green hydrogen energy, water, and waste management
- Experience in relevant modelling and process design

The postdoctoral fellowship is for 12 months (reevaluated after year 1), with a nationally competitive reimbursement.

Enquiries and details regarding this post may be directed to Prof K Moodley via email: moodleyk6@ukzn.ac.za

The closing date for receipt of applications is **20 September 2024**.

Applicants are required to submit the following documents in a single PDF to Mrs N Ngcobo, email: ngcobon8@ukzn.ac.za **before the closing date (cc Prof K Moodley moodleyk6@ukzn.ac.za with the subject line "TRU06/2024 Application (Your surname)".**

- (i) a cover letter highlighting their experience in meeting each of the minimum requirements listed above.

- (ii) a detailed CV including the list of publications
- (iii) contact details for three referees
- (iv) a certified copy of the applicant's doctoral degree certificate or Ph.D. award letter/relevant evidence of pending completion.

Late applications will not be considered. Shortlisted individuals will be contacted on or before 15 October 2024. An online interview will take place. The research group reserves the right not to make an appointment to this advert. Should you not receive a reply or update by 30 October 2024, kindly consider that your application has not been successful. 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