**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.**

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**POSTDOCTORAL FELLOWSHIP**

**01 AUGUST 2024 – 30 JUNE 2025**

**THERMODYNAMICS RESEARCH UNIT**

**SCHOOL OF ENGINEERING**

**HOWARD COLLEGE CAMPUS**

**REF NO.: TRU03/2024**

The Thermodynamics Research Unit (TRU) within the School has a postdoctoral fellowship position available in the area of sustainable processing, hydrometallurgy, and waste minimisation technologies. The incumbent will be required to work closely with the project leaders in the Unit to provide research assistance on various projects; undertake experimental measurements (LLE, SLE, VLE) and analyses thereof (GC, GC-MS, ICP OES), assist with procurement of chemicals and equipment for the Unit; assist with the supervision of both undergraduate and postgraduate activities.

**Minimum Requirements:**

Applicants must have completed a doctoral degree within the past three-five years in Chemical Engineering

* PhD in the relevant area of phase equilibria and chemical thermodynamics
* An adequate number of publications in the relevant area of expertise.
* Experience in measurement of phase equilibria and hydrometallurgy evidenced by publications and,
* Experience in analytical measurements, i.e., GC, GC-MS, ICP-OES
* Knowledge of experimental design and experimental techniques in chemical thermodynamics.
* Experience in relevant modelling and use of software.

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

The postdoctoral fellowship is for 12 months (reevaluated after year 1), with a nationally competitive reimbursement. This is funded through the Thermodynamics Research Unit.

**The closing date for receipt of applications is 8 July 2024.**

**Applicants are required to submit the following:**

1. **a covering letter highlighting their experience in meeting each of the minimum requirements as listed above.**
2. **a detailed CV including the list of publications**
3. **contact details for two referees**
4. **a certified copy of the applicant’s doctoral degree certificate or PhD award letter/relevant evidence of pending completion**
5. **a certified copy of the applicant’s ID / permanent residency document / foreigners must be in possession of relevant permits.**

**Applications must be emailed to the discipline administrator, Mrs N Ngcobo, email:** **ngcobon8@ukzn.ac.za** **before the closing date (cc Prof K Moodley** **moodleyk6@ukzn.ac.za****). The subject line must clearly indicate the reference no. TRU01/2024 Postdoctoral fellowship.**

**Late applications will not be considered. Shortlisted individuals will be contacted on or before 15 July 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 the 30 July 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](http://vacancies.ukzn.ac.za/Libraries/General_Documents/Section_18_Notice_-_Employees_and_Potential_Employees.sflb.ashx)