

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 South African applicants from the designated groups in accordance with our Employment Equity Plan.

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

**POSTDOCTORAL RESEARCHER (2 POSTS)
ONE YEAR FIXED-TERM APPOINTMENT
CIVIL ENGINEERING (SARChi Chair – Waste and Climate Change)
SCHOOL OF ENGINEERING
HOWARD COLLEGE CAMPUS**

REF NO. SARChi/01/2025

The SARChi Chair—Waste and Climate Change in the School of Engineering is seeking a highly motivated and qualified postdoctoral researcher with a background in civil engineering, water resources engineering, environmental engineering/Science, or relevant fields to join our interdisciplinary team in the area of waste management and climate change. The successful candidate will contribute to ongoing research activities focused on the control and management of waste emissions, climate impacts of and on the waste sector, sustainable resource management, and environmental sustainability.

The incumbent will support the supervisor's research areas and/or projects through active research, planning, and field trips to collect samples, support laboratory experiments, and model development techniques. S/he will be expected to collaborate with a multidisciplinary team of researchers, publish research results in high-impact scientific journals, and present research findings at conferences and seminars. S/he will contribute to the preparation of project reports, grant proposals, and other research-related documents, mentor and supervise graduate students and research assistants involved in related projects, and assist in any relevant tasks required by their supervisor.

Minimum requirements

- A recent PhD (within the last 5 years) in Civil/Chemical Engineering, Environmental Science/Engineering, or relevant fields.
- Strong knowledge in one or more of life cycle analysis, techno-economic analysis, waste management/strategies/models, reuse/recycle waste materials, waste emissions, waste control and treatment, wastewater treatment and effluent discharge impact analysis and modelling, and climate change, demonstrated through a proven track record of published peer-reviewed research articles.
- Experience in conducting field experiments, data collection and analysis, and interpretation of data.
- Knowledge of programming with relevant software tools for data analysis and model development is an advantage.

Applicants are required to submit the following:

- Motivational letter, including a 1-2-page outline of relevant expertise and experience.
 - Full CV including a list of research publications, conference papers and other scholarly output.
 - Full transcripts of academic record and copy of doctoral degree certificate.
 - Title and Abstract of doctoral Thesis
 - Copy of ID document (or copy of passport in the case of foreign applicants).
 - Contact details of two academic referees who have taught/supervised the candidate.
- to Ms Ntombilungile Ntola at NtolaN@ukzn.ac.za

The remuneration associated with the postdoctoral fellowship is R 280,000 per annum.

Enquiries and details regarding the post may be directed to Prof. Muthukrishna Kumarasamy: Kumarasamy@ukzn.ac.za.

Closing date for application is 27 June 2025.

Applications must be sent to the administrator Ms Ntombilungile Ntola email NtolaN@ukzn.ac.za indicating the reference number in the email's subject line.

*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)*