

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

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**POSTDOCTORAL FELLOWSHIP (1 POST)  
ARTIFICIAL INTELLIGENCE FOR CLIMATE CHANGE (AICC) RESEARCH PROJECT  
1 NOVEMBER 2022 – 31 OCTOBER 2023 (Renewable conditionally)  
SCHOOL OF MATHEMATICS, STATISTICS AND COMPUTER SCIENCE  
PIETERMARITZBURG CAMPUS**

**REFERENCE NO.: MSCS0821/2022**

The UKZN Artificial Intelligence for Remotely Sensed Image Scene Detection and Classification (AIRSISDC) Research Project has a Post-Doctoral fellowship opportunity available in a research for community engagement initiative focusing on the field of Artificial Intelligence for the ontological modelling and remotely sensed imaged classification of flooded areas in KwaZulu-Natal province. The project team is looking for a candidate that will work closely with the research investigators to provide assistance in various aspects of the project that include: undertaking literature surveys, modelling flooded landscapes using ontology-based image analysis and Deep Learning on remotely sensed image data, , writing high quality research papers from the project, facilitating workshops, developing Massive Open Online Courses (MOOCs) that showcase research insights, designing an AIRSISDC short course proposal and assisting with the supervision of postgraduate activities.

The successful applicant will be expected to engage in **full-time** postdoctoral studies under the supervision of a member or members of the academic staff in Computer Science, and Earth and Environmental sciences.

**Minimum Requirements:**

- PhD in Computer Science or related fields obtained in the last three years.
- Applicants must be under the age of 45 years.
- Must be based at UKZN for the duration of the scholarship.
- An adequate number of publications in the relevant area of expertise.
- Knowledge and experience in the fields of AIRSISDC and image analysis.

The Chair is committed to equity and transformation. Applications from previously disadvantaged population groups and persons with disabilities will be viewed favourably.

Enquiries and details regarding the post may be directed to the AIRSISDC principal investigator: Dr. J. V. Fonou-Dombeu at email: [fonoudombeuj@ukzn.ac.za](mailto:fonoudombeuj@ukzn.ac.za)

The postdoctoral fellowship is for 12 months, worth R180 000 per annum, renewable for a second year upon a satisfactory progress report, funded by the UKZN College of Agriculture, Engineering and Science.

**The closing date for receipt of applications is 31 October 2022.**

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

- (i) a covering letter highlighting their experience in meeting each of the minimum requirements as listed above.**
- (ii) a detailed CV including the list of publications**
- (iii) contact details for two referees**
- (iv) a copy of the applicant's doctoral degree certificate or PhD award letter.**
- (v) 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 school principal academic officer (Ms Nondumiso Khanyile), email: [khanyilet@ukzn.ac.za](mailto:khanyilet@ukzn.ac.za) before the closing date. The subject line must clearly indicate the reference no. MSCS0821/2021. Late applications will not be considered. Successful individuals will be contacted on or before 04 November 2022, thereafter an online interview session 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 September 2022, kindly consider your application to have been unsuccessful.**