

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

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**POST DOCTORAL RESEARCHER: AGRICULTURAL REMOTE SENSING  
TWO YEAR FIXED TERM APPOINTMENT  
SCHOOL OF AGRICULTURE AND SCIENCE  
PIETERMARITZBURG CAMPUS**

**REF NO. SAR01/2025**

The DSI/NRF South African Research Chair Initiative (SARChI) in Land Use Planning is pleased to announce a fixed term Post-Doctoral Fellowship. The overall objective of the post-doctoral researcher is to develop an integrated approach to studying crop water use at various spatial scales using GIS, Remote Sensing and Machine Learning technologies. Advancement of the science using high-resolution Earth Observation datasets (e.g., thermal, multispectral, and LiDAR) from an array of platforms and in-situ biophysical measurements will constitute the core of the fellowship. We seek to appoint a dynamic, innovative and self-motivated professional with a background in GIS/Remote sensing and/or Computer Science with high level proficiency in programming and Machine Learning. The candidate is expected to work in a multidisciplinary environment, supporting post graduate students and publish research findings in accredited journals. As part of our transdisciplinary team, the successful candidates will be exposed to exciting research opportunities and challenges to foster their career growth through innovative solutions.

**Minimum Requirements:**

- PhD in Environmental Science, Computer Science, Geography, Remote Sensing/GIS, Ecology, Land/Natural Resources Management, with strong evidence of remote sensing applications in Agriculture.
- A proven research record as evidenced by recent publications in peer-reviewed ISI/DHET accredited journals.
- Analytical GIS and or Remote Sensing with programming skills
- Experience in near-real-time crop water stress modelling using Earth Observation data
- Experience of working in multi-disciplinary teams.

Candidates who are self-motivated, rigorous and responsible, with a track record showing the ability to conduct independent research and publications in reputable journals are encouraged to apply. **The closing date for receipt of applications is 25 September 2025, however, this advert will remain open until the positions are filled.**

This appointment will be made in line with the University Guidelines/benchmarks which are available on the University Vacancies website on <http://vacancies.ukzn.ac.za/Academic-Process-Proc-Guides.aspx>

For more information, contact the SARChI Chair, Prof. O. Mutanga [Mutangao@ukzn.ac.za](mailto:Mutangao@ukzn.ac.za)

**Fellowship Award applications should consist of:**

Applicants are required to submit the following: (1) A one-page motivation on suitability for the fellowship, (2) CV with publication record, (3) Full academic records, and (3) contact details of two academic referees to Andile Mshengu [MshenguA@ukzn.ac.za](mailto:MshenguA@ukzn.ac.za) and copied to [Mutangao@ukzn.ac.za](mailto:Mutangao@ukzn.ac.za)