

We invite application for the position of

# Post-Doctoral Research Fellow

## Climate Change, Air Quality and Impacts

The North-West University's Unit for Environmental Sciences and Management (UESM) invites suitable applications for the position of Post-Doctoral Research Fellow in the field of Climate Change, Air Quality and Impacts (CCAQI).

The UESM hosts a world-renowned group of researchers and is offering a Post-Doctoral Research Fellow position in the abovementioned field of research.

The Post-Doctoral Fellowship (PDF) is funded through the NWU Post-Doctoral Program and carries a value of R249 600 (tax-free) per annum, once-off translocation costs of R20 000, and R20 000 per annum research funding. The successful post-doctoral candidate should commence as soon as possible. The fellowship is available for three years and the successful candidate is expected to be a full-time active member of the CCAQI sub-programme. The PDF position is reviewed on an annual basis and continuation thereof is subject to performance evaluation. The PDF will be based at the Potchefstroom Campus.

The subprogram is aimed at providing key information to support the development of sustainable air quality policies and practices in Southern Africa. Research focusses are atmospheric chemistry, the investigation of current climate change and its impacts but we are also looking, e.g., at crop physiology.

Since 2022 we implemented aerobiology into our research portfolio, where we as a member of SAPNET (South African Pollenmonitoring Network) measure the content of allergenic pollen and spores in the atmosphere above the North West Province. Here we compare to environmental factors (weather parameters, air pollution PM2.5) at the same location.

### Key responsibilities:

- Perform research and analyses in the fields of air quality research, aerobiology and meteorology.
- Play an active role as an investigator in all aspects of the research project.
- Lead author of at least 3 papers per annum published in international accredited peer-review journals.
- Assist in capacity development at the NWU through active interaction, co-supervision and collaboration with post-graduate students and interns.
- Assist in community engagement activities

### Minimum criteria:

- A PhD degree in environmental sciences, with a specialization in air quality research/atmospheric sciences ideally with aerobiology and numerical/statistical analysis as components of the degree.
- Strong written and oral communication skills with a minimum of 3 ISI rated publications in the relevant discipline as well as presentations at various national and international conferences.
- Ability and willingness to expand the current research program
- Ability and willingness to conduct laboratory and fieldwork in the respective research field.
- Ability to work independently but also participate within the team to reach certain goals.
- Valid driver's license.

### Desirable criteria:

- Experience with relevant software, e.g., R.
- Experience in laboratory techniques and instrumentation.
- Student supervision and mentoring experience.

### Applications and enquiries:

If you are interested in applying, please submit the following documentation:

1. A letter of motivation, detailing your relevant experience and research interests, current research activities as well as your interest in the project(s).
2. A Curriculum Vitae including a list of publications.
3. The names, contact details and relationship of at least three references (including doctoral supervisor).
4. Proof of completion of PhD or, in the case of a final year PhD candidate, a letter from your supervisor stating the expected date of submission of the PhD thesis.
5. Copy of identification document or passport.

The closing date for applications is 15 April 2024 at 12:00 (noon).

Scan the QR code or follow [this link](#) to apply via the Post-Doctoral Application Form. For further enquiries contact Prof Roelof Burger at [Roelof.Burger@nwu.ac.za](mailto:Roelof.Burger@nwu.ac.za) with subject line: **CCAQI Postdoc Enquiry.**

