

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE, UKZN

**POSTDOCTORAL FELLOWSHIP (1 POST)
12 MONTHS FIXED-TERM APPOINTMENT
SCHOOL OF CHEMISTRY AND PHYSICS
DURBAN CENTRE**

The following postdoctoral fellowship opportunity is available to contribute to the multidisciplinary research effort between the disciplines of Physics and Chemistry at the University of KwaZulu-Natal, Westville Camps, Durban.

Research area: Surface physics, surface chemistry, computational physics and quantum many-body theory. The applicant is required to have expertise in the adsorption of corrosive compounds on metal surfaces, a chemical background knowledge in insulating oils and material related to transformers, computational transformer oil research and sufficient knowledge of analytical, physical and inorganic chemistry

The successful applicant will be expected to engage in **full-time** postdoctoral studies within the School of Chemistry and Physics and to engage with chemists and physicists within this research area.

MINIMUM REQUIREMENTS:

- A relevant PhD in Physics within the last five years
- Knowledge of physical and inorganic chemistry at least at third year level.
- Experience in High-performance Computing.
- Vast experience in Material Studio including the modules CASTEP and DMol³
- Publications on the adsorption of specifically corrosive compounds on metal surfaces in reputable international journals.

**Enquiries and details regarding this post may be directed to Dr Mervlyn Moodley:
moodley2@ukzn.ac.za.**

The closing date for receipt of applications is Friday, 9 September 2022.

Applicants are required to submit a covering letter and CV. The letter must provide details of the candidate's suitability with respect to the minimum requirements. The CV must include the names, full addresses and e-mail addresses of three referees.

Please e-mail applications to Dr Mervlyn Moodley, School of Chemistry & Physics, University of KwaZulu- Natal, Westville Campus, 3rd Floor, Physics Building, Block H, Westville; e-mail: moodley2@ukzn.ac.za

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.