

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

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**POSTDOCTORAL POSITION  
TWO MONTH FIXED TERM APPOINTMENT  
SCHOOL OF CHEMISTRY & PHYSICS  
DURBAN CENTRE**

The Catalysis Research group is seeking to appoint a candidate with experience in the area of heterogeneous catalysis. The incumbent will be expected to interact with the post-graduate students at all levels (MSc, PhD and honours). S/He is expected to embark upon an active research programme on solution combustion and glycol-thermal syntheses and the application of these materials in green catalysis. Thus, the candidate should have competence in the operation of continuous flow reactors, mass balances, and product analyses and, also, have skills in the recording/interpretation of pXRD, BET, TPR/O/D, chemisorption, gc and EM images

The School has state-of-the-art instrumental facilities with excellently equipped undergraduate and research laboratories. The school has an extensive research base with first class spectroscopic and analytical instrumentation in NMR, IR, Raman, Fluorescence, Singlet Oxygen Phosphorescence, Laser Flash Photolysis, X-ray diffraction (powder and single crystal) and electrochemical instrumentation. There is a wide range of HPLC and GC instrumentation available including LC-MS and GC-MS. The University has materials characterization instruments such as the HRTEM, SEM/EDX, BET and AFM among others.

The incumbent will report to Professor Holger Friedrich.

**Minimum Requirements:**

- A PhD degree (or a degree complete letter) in heterogeneous catalysis
- Experience in solution combustion and glycol-thermal syntheses
- A proven research record as evidenced by at least a recent publication in peer-reviewed ISI/DHET rated journals

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>

Enquiries and details regarding this post may be directed to Professor Holger Friedrich, email address : [friedric@ukzn.ac.za](mailto:friedric@ukzn.ac.za).

**The closing date for receipt of applications is 10 August 2017**

**Applicants are required to send their Curriculum Vitae to [friedric@ukzn.ac.za](mailto:friedric@ukzn.ac.za), together with a covering letter explaining why they fit the requirements.**