

**CRYSTALLOGRAPHY OFFICER/LECTURER**  
**REFERENCE NO: SA13/2007**  
**SCHOOL OF CHEMISTRY, UNIVERSITY OF KWAZULU-NATAL**  
**SOUTH AFRICA**

The School of Chemistry wishes to appoint an expert to run the School's Crystallography Unit. This Unit is based on the Pietermaritzburg Campus (<http://chemweb.unp.ac.za/chemistry>) and is an NRF Regional Facility. The School has a research base of approximately 25 academics and 100 postgraduates. This unit currently consists of an Oxford Diffraction Xcalibur-2 Diffractometer with a low temperature capability and an Enraf-Nonius CAD-4 instrument. It is hoped in the very near future to obtain funding for a Gemini PX-ultra Diffractometer (or equivalent) to allow the unit to expand into macromolecular work.

The successful applicant will be required to provide the entire University community with a full crystallographic service including diffractometer maintenance, mounting crystals, collecting data sets, solving structures and preparing publishable manuscripts. Teaching Honours and postgraduate students at both the Durban and Pietermaritzburg campuses will also be integral to the post. The successful applicant should have good communication skills.

**MINIMUM REQUIREMENTS:**

- A PhD in Chemistry with the main emphasis on crystallography;
- Experience in the practical aspects of X-ray crystallography including selecting and mounting crystals for data collection;
- Experience in solving and refining crystal structures including difficult/disordered structures;
- Evidence of theoretical understanding of the fundamentals of X-ray crystallography including space group symmetry, chirality, and polymorphism;
- Publications on crystallography in ISI-rated international journals.

Short-listed candidates will be required to undergo a skills test.

**The remuneration package offered includes benefits and will be dependent on the qualifications and/or experience of the successful applicant. The selection process will commence on 17 April 2007 and will continue until a suitable candidate is appointed or a decision is taken not to fill the post.**

**Applicants are required to submit a covering letter highlighting their experience in, and providing evidence for, each of the minimum requirements and advantage as listed above, together with a detailed CV including the names, full addresses, fax numbers and e-mail addresses of three referees, to Mrs C Bhebhe, Human Resources Administration, University of KwaZulu-Natal, Private Bag X01, Scottsville, 3209, Fax. No. +27 (0) 33 260 5356 or e-mail [bhebhec@ukzn.ac.za](mailto:bhebhec@ukzn.ac.za).**