

**The University of KwaZulu–Natal (UKZN) is committed to meeting the objectives of Employment Equity to improve representivity within the Institution.**

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**PRINCIPAL TECHNICIAN (ELECTRONICS)  
(PEROMNES GRADE 8)  
SCHOOL OF CHEMISTRY AND PHYSICS  
PIETERMARITZBURG CAMPUS**

**REF NO.:CP06/2017**

The incumbent will provide high level technical expertise for designing, troubleshooting, repairing and maintaining all electronic equipment used for teaching and research within the College of Agriculture, Engineering and Science and the wider UKZN. S/he will be responsible for designing, prototyping and testing of new and innovative electronic systems required for research applications. S/he will be required to have knowledge of state of the art digital and analogue techniques; and also offer expert consulting support and technical problem-solving to academics, researchers, postgraduate students and support staff. S/he will be required to independently design a wide range of high technology electronic instrumentation, including microprocessor controlled equipment. S/he will be required to independently diagnose faults and repair highly complex electronic circuits escalated to his/her attention, as well as provide knowledge transfer to junior staff. S/he will be responsible for ensuring that repairs and own designs conform to original specifications, so that research data obtained from the equipment is accurate.

The successful incumbent will be required to design printed circuit board layouts with a computer aided drawing package and manufacture printed circuit boards for own designs. The incumbent will be based in Pietermaritzburg, but may be required to travel and work in both campuses of operation.

The incumbent will report to the Technical Manager: EC & MIW.

**Minimum Requirements:**

- Three year relevant tertiary qualification
- Five (5) years of relevant post qualification work experience, of which two (2) will be at a senior level
- Knowledge and use of a variety of test instruments, Oscilloscopes, Function Generators, Oscillators, DVMs etc
- Experience in Microcontroller/Microprocessor programming
- Knowledge of computers and their operating systems and Engineering CAD programs
- Sounds knowledge of a wide range of Scientific Instruments.
- Experience in word-processing and spreadsheets.
- Unendorsed code EB driver's licence.

**Shortlisted candidates may be required to undergo a skills test.**

Enquiries and details regarding this post, as well as the request for the job profile may be directed to Mr Mbuso Cele, 033- 2605513 or email [CeleM2@ukzn.ac.za](mailto:CeleM2@ukzn.ac.za)

Appointment to this post will be on the January 2012 Conditions of Service, where applicable.

The total remuneration package offered includes benefits.

The closing date for receipt of applications is 18 April 2017.

Applicants are required to complete the relevant application form which is available on the Vacancies website at [www.ukzn.ac.za](http://www.ukzn.ac.za). Completed forms may be sent to [Recruitment-aes@ukzn.ac.za](mailto:Recruitment-aes@ukzn.ac.za)

Advert Reference Number **MUST** be clearly stated in the subject line.