



UNIVERSITY OF  
ZULULAND

**The University of Zululand subscribes to the principles embedded in  
the Employment Equity Act**

**FACULTY OF SCIENCE AND AGRICULTURE  
HRTEM ELECTRON MICROSCOPY TECHNOLOGIST  
5 Year Fixed Term Contract  
FSA2020/11/05  
Grade 08**

**Minimum Requirements:**

- M Sc in Chemistry
- 3 to 5 years in operating the HRTEM equipment
- Driver's license

**Added Advantage:**

- PhD in Chemistry will be an added advantage
- Ability to perform tasks requiring a high degree of manual dexterity to develop, enlarge and process micrographs, sample preparation and handling of chemicals and ability to adapt to new procedures concerning work in the electron microscope laboratory

**Knowledge:**

- Knowledge and experience in the use of scanning, transmission electron microscopes
- Knowledge and experience in the maintenance of vacuum equipment
- Knowledge and experience in electron beam microanalysis
- Knowledge and experience in computer and web site maintenance
- Extensive knowledge of sample preparation and laboratory supplies
- Knowledge and experience in troubleshooting and repairing electron and electrical devices

**Skills:**

- Ability to operate and maintain the electron microscope.
- Ability to perform tasks requiring a high degree of manual dexterity
- Ability to learn to develop, enlarge, and process micrographs
- Experience in maintaining computers and its use in assisting the instrument
- Experience in sample preparation and handling of chemicals
- Ability to adapt to new procedures concerning work in the electron microscope laboratory

**Behavior/Attributes:**

- Dedicated worker
- Hard Working
- Meticulous
- Punctual
- Well-spoken and people's person
- Independent worker as well as with people.

### **Summary of Duties: (Key Performance Areas)**

- Operation, maintenance and troubleshooting of electronic equipment and electrical devices
- Preparation of data as specified by person requiring the analysis
- Sample preparation for electron microscopy and handling chemicals
- Communication skills in dealing with staff and users of the facility and ability to take directions and to work well with a wide variety of people
- Perform analysis for outside users
- Demonstrate ability to maintain a clean and orderly laboratory environment and apply safety protocols
- Computer skills and specific computer skills as related to microscope operation and microanalysis

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To apply please log on to **PNET** ([www.pnet.co.za](http://www.pnet.co.za)) and submit your application.

**1. Communication will be entered into with short-listed candidates only.**

**2. No hand delivered or posted applications will be accepted.**

**Closing date: 29 November 2020**

“While UNIZULU strives for equal opportunities, preference will be given to suitable candidates in terms of the University’s equity policy”

The University reserves the right NOT to make an appointment