



**DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY**  
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## **ADVERTISEMENT FOR MSC SCHOLARSHIPS IN THE UNIVERSITY**

### **INSTITUTION PROFILE.**

Dedan Kimathi University of Technology (DeKUT) is a rapidly growing institution situated along the Nyeri-Nyahururu road in Nyeri County. The University offers programmes at Diploma, Bachelors, Masters and PhD levels and is currently operating two campuses namely the Main Campus along the Nyeri-Nyahururu road in Nyeri and Nairobi Campus at Pension Towers.

With support from the International Development Research Centre (IDRC), the University is seeking suitable candidates to apply for a scholarship to study for Msc degrees in Telecommunication Engineering, Electrical Engineering, Computer Science, Data Science and Geospatial Information Systems and Remote Sensing.

Successful candidates will be affiliated to the Centre for Data Science and Artificial Intelligence (DSAIL) as research interns where they will also conduct research as part of their duties.

### **Requirements**

- i. A holder of at least an Upper Second Class Honours bachelors degree from DeKUT in Telecommunication & Information Engineering, Electrical & Electronic Engineering, Computer Science or Geospatial Information Systems and Remote Sensing OR
- ii. A holder of a Bachelor of Science in Electrical & Electronic Engineering, Telecommunication & Information Engineering, Computer Science or Geospatial Information Systems and Remote Sensing degree of at least Second Class Honours (Upper Division) from another institution recognized by the DeKUT Senate.
- iii. Students in their final year of a Bachelor of Science in Electrical & Electronic Engineering, Telecommunication & Information Engineering, Computer Science or Geospatial Information Systems and Remote Sensing degree who will have completed all graduation requirements by December 31st 2024 can apply provided they supply transcripts with a minimum grade average of B in each year of study and recommendation letters.
- iv. The candidates must have a good understanding of undergraduate level calculus, linear algebra

and probability with a minimum grade of B in the relevant course units.

- v. The candidates must have demonstrable computer programming experience in Python and C/C++. The candidate's CV should include a link to an online repository containing coding samples (eg. GitHub)
- vi. The candidates must have a keen interest in applying machine learning and artificial intelligence to areas such as health, agriculture and environmental conservation.
- vii. The scholarship shall be for two years.

### **Responsibility**

In addition to their studies, the Msc student shall be expected to work for **20 hours per week** on average. Specific duties include;

- i. Develop methodology leveraging drone data for forest health monitoring in reforested stands.
- ii. Develop methodology for anomaly detection in sensor data
- iii. Development of AI approaches for weather forecasting.
- iv. Development of AI applications in health.
- v. Development of natural language processing application for local languages
- vi. Any other duty that may be assigned by a senior officer.

### **How to Apply**

1. All applications should be sent to [[dsail-recruitment@dkut.ac.ke](mailto:dsail-recruitment@dkut.ac.ke)] with the subject line MSc Position - [Last Name]-[First Name]. **Hard copies will not be accepted.**
2. Each application shall be accompanied by a cover letter highlighting prior projects in machine learning, data science or related field, detailed curriculum vitae, copies of academic and professional certificates and relevant transcripts, national identity card or passport, testimonies, and other relevant supporting documents.

**Deadline:** Applications must be received on or before **22<sup>nd</sup> November, 2024 by 5. 00 P.M**

### **To note:**

1. *Successful candidates for the position of an intern will be remunerated in accordance with the internship policy.*
2. *Dedan Kimathi University of Technology is an equal opportunity employer. Applicants of either gender, any ethnicity, persons with disabilities and those from marginalized areas are encouraged to apply*
3. *Only shortlisted candidates will be contacted*

