



DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

Our Vision

“To be a premier technological university, excelling in quality education, research and technology transfer for national development”

Our Mission

“To provide an academically stimulating, culturally diverse and quality learning environment that fosters research, innovation and technology development towards producing relevant technical and managerial human resource and leaders to contribute to attainment of national

ADVERTISEMENT FOR MSC TELECOMMUNICATION ENGINEERING SCHOLARSHIPS IN THE UNIVERSITY

Dedan Kimathi University of Technology with support from Arm Limited, a world leading semiconductor and software Design Company, is seeking suitable candidates to apply for a scholarship to study for an Msc in Telecommunication Engineering with a focus on machine learning and signal processing applications. 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

To be appointed to this position, a candidate must have:

- i. At least an Upper Second Class Honours bachelor’s degree from DeKUT in Electrical and Electronic Engineering OR Telecommunication & Information Engineering;
OR
- ii. A Bachelor of Science in Electrical & Electronic Engineering OR Telecommunication & Information Engineering degree of at least Second Class Honours (Upper Division) from another institution recognized by the DeKUT Senate;
- iii. Have a good understanding of undergraduate level calculus, linear algebra and probability;
- iv. 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);

- v. Have a keen interest in developing machine learning and internet of things (IoT) applications in areas such as health, agriculture and environmental conservation;
- vi. Experience with electrical hardware design and electronic design automation software is desirable; and
- vii. The scholarship shall be for a period of 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 are as follows;

- 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 a bat call library for Kenyan bats to enable survey of bat species for ecosystem monitoring using appropriate signal processing and machine learning techniques.
- iv. Any other duty that may be assigned by a senior officer.

How to Apply

1. All applications should be submitted to; vc@dkut.ac.ke or hr@dkut.ac.ke. **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 **14th February, 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 and is committed to implementing the provisions of Article 232 (i) of the constitution. Therefore, Persons with disability and those from marginalized and minority communities are encouraged to apply.*
3. *Only shortlisted candidates will be contacted*