Call for Application for Admission 2023/2024 Academic Year: Master of Science (MSc) in Biomedical Engineering.

Biomedical Engineering is the application of engineering principles and problem-solving techniques to biology and medicine for improvement of human health and health care. The department of Electrical and Communications Engineering, in collaboration with other departments in the School of Engineering, offers a graduate programme leading to the degree of Master of Science (MSc) in Biomedical Engineering with specialties in

1. *Biomedical Instrumentation and Control,*
2. *Biomechanical Engineering*
3. *Biomedical Structures.*

This is done through coursework, examination, and thesis. The programme aims to create scholarly research and develop capacity in the specialist area of Biomedical Engineering. It captures recent developments in innovative research, and it is intended to produce high quality specialists. A graduate of this programme should be able to utilise the acquired knowledge and practical skills to pursue successful professional and leadership careers in the industry, research, innovation, development, and teaching. The student will learn fundamental principles of biomedical engineering through coursework and research. In addition to first year's coursework, the learner will attend workshops and seminars presented by invited speakers from the industry and academia. Students in this programme shall share common biomedical engineering courses in the first and second semester of the first year. In the first semester, a learner shall pursue four common courses that are core to the programme, and two core courses in the respective area of interest specialisation. In the second semester, a learner shall pursue one common course that is core to the programme, two core courses in the respective area of interest, and three elective courses in the respective area of interest. The programme shall be led by a programme leader assisted by thematic leaders for each of the programme options.

Admission Requirements

To qualify for admission into the MSc degree programme in Biomedical Engineering a candidate shall normally be a holder of at least:

- Bachelor's degree of Moi University in Electrical and Electronics Engineering or Electrical and Telecommunications Engineering, Electrical and Communications Engineering or Mechanical and Production Engineering or Production Technology or Computer Engineering or Textile Engineering or Chemical and Process Engineering or Manufacturing

Engineering or Industrial and Textile Engineering or Materials Engineering.

- Bachelor's degree in Biomedical Engineering or any other relevant engineering degree from a university accredited/recognised by Commission for University Education, Kenya

Specific Objectives of the Programme

This programme is designed to facilitate learning about:

- Concepts in human sciences and engineering as applied in biomedical engineering.
- Selection, design, installation, and maintenance of Biomedical equipment.
- Research, dissemination and development of prototypes within Biomedical Engineering.
- Leadership and problem solving skills to enhance the practice of Biomedical Engineering.

Eligible and interested candidates can apply online here (https://admissions.mu.ac.ke/) and attach all required documents. The applicants should request their referees to fill the referee forms that are accessible from here: https://www.mu.ac.ke/images/Students_downloads/referee.pdf and send them to the email address indicated below.

The programs are scheduled to start in May, 2024 at Eldoret town Campus. The duration of the program is 2 years. The duly filled post-graduate application forms should be emailed to the following contact to be received not later than 31st January 2024.

Dean, School of Engineering,

Moi University, Eldoret,

P.O BOX 3900-30100.

Email: deanengineering@mu.ac.ke Copy to: electrical@mu.ac.ke