

The Harare Institute of Technology is inviting applications for admission into Part one of a five year full time Bachelor of Technology Honours Degree in Biomedical Engineering from candidates who meet the specified entry requirements. Candidates must have five “O” Level passes at grade “C” or better including English and Mathematics.

## About the program

Biomedical Engineering is an enthralling interdisciplinary area of study that combines engineering with science and technology to solve medical problems in living systems. It is the application of the principles and problem-solving techniques of engineering to biology and medicine. This is evident throughout healthcare, from diagnosis and analysis to treatment and recovery, and has entered the public conscience through the proliferation of implantable medical devices, such as pacemakers and prosthetics, to more futuristic technologies such as stem cell engineering and the 3-D printing of biological organs.

The Biomedical Engineers are experts in designing Electronics Circuits, Embedded Systems, Imaging Techniques, Telemedicine, Healthcare Communication and Medical Informatics. The programme is also designed to inculcate graduates with the technopreneurial skills required to create and manage high growth, scalable business enterprises. Furthermore, the curriculum contains a strong component of project-based learning to enhance the creative thinking and innovative attitudes required for biomedical engineering research and development.

## Competencies

On completion of the programme, the graduates must be able:

- To design, construct, assemble and manage complex biomedical engineering projects, medical and laboratory equipment.
- To conduct, analyze, and interpret experiments and apply experimental results in biomedical research and development.
- To apply biomedical engineering technical expertise to industry-related fields.
- To take leadership and mentoring roles during the design and implementation phases of biomedical engineering projects.
- Manage complex biomedical engineering projects that are motivational, technopreneurial and research driven.
- To apply ethical standards, principles of design for sustainable development, and environmental consideration.

## Career paths include:

- Biomedical Engineers in industry and R&D institutions.
- Design Engineers and Scientists in health care research institutes.
- Embedded Systems Designer in medical devices manufacturing industry.
- Healthcare research analysts/consultants.
- Entrepreneurs in the ever-developing medical services industry
- Medical equipment and supplies manufacturing.
- Developers of equipment and devices in the following: Rehabilitation Engineering, Bioinstrumentation, Biomaterials, Biomechanics, Clinical Engineering, Medical Imaging Systems, Patient Health.
- Developers of systems for data and information management.

## Entry qualifications

Entry requirements for acceptance into the Bachelor of Technology Honours

Degree in Biomedical Engineering programme are:

- At least three 'A' Level passes in Physics, Mathematics and a third approved subject such as Biology, Chemistry, Computer Science or equivalent subjects at “A” Level.

**Or**

- National Diploma in Biomedical Engineering or equivalent qualification plus a minimum of two years relevant post qualification experience.

**Or**

- Higher National Diploma (HND) in Biomedical Engineering or its equivalent qualification.

## HOW TO APPLY

- Application forms are obtainable from the Institute at a non-refundable fee of **ZWL\$500.00** for Zimbabweans and **US\$50.00** for international applicants.
- You can also download the form from our website: [www.hit.ac.zw](http://www.hit.ac.zw)
- Candidates who wish to apply on-line should visit the University website; [www.hit.ac.zw](http://www.hit.ac.zw)

## Deposit the application fee into the HIT Bank Account:

### Zimbabwean Applicants

CBZ Account Number: 02420583120037, Swift Code: COBZZWHA, Branch Sort Code: 6120, Harare SAPPHIRE Branch.

### International Applicants

CBZ Nostro Account Number: 03320583120047, Swift Code: COBZZWHA, Harare SAPPHIRE Branch.

**OR**

Stanbic Nostro Account Number: 9140000927995, Swift Code: SBICZWHX, Harare Southerton Branch

The completed form should be accompanied with certified copies of the following:

- (a) **Relevant academic and or professional certificates, results slips or transcript.**
- (b) **National Identity Card or first two pages of a candidate's passport**
- (c) **Birth Certificate**
- (d) **Bank Deposit Slip**

- The closing date for receipt of completed application forms is **Friday, 16 October 2020 at 1600hrs**. Late applications will be considered up to **Friday, 30 October 2020** upon payment of a late application fee of **ZWL\$1000.00** for Zimbabweans and **US\$50.00** for international applicants.

## For further enquiry contact:

**The Assistant Registrar-Admissions  
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P O Box BE 277**

**Belvedere  
HARARE**

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