



Background

The Department of Biomedical Sciences currently offers four specialised programmes in the field of biomedical sciences namely: Biomedical Technology, Veterinary Technology, Clinical Technology and Radiography. Apart from the general admission requirements, as stated in each course, applicants will be required to do a Tshwane University of Technology Potential Assessment test and an interview for all the courses offered within the Department of Biomedical Sciences.

The following are the minimum academic requirements to enroll for the National Diploma programmes in Radiography, Biomedical Technology, Veterinary Technology and Clinical Technology.

In addition to the senior certificate - general and vocational certificate a candidate must adhere to the specific requirements for the programme.

Specific requirements are:

English (1st or 2nd, rating 4) and a pass (rating 3) in Mathematics, Life Sciences and Physical Science.

Applicants who score 49 or more points according to the Admission Points Score (APS) will be considered for enrolment subject to the availability of space in the programme.

Recommended subject is:

Information Technology

N DIP: BIOMEDICAL TECHNOLOGY

Duration

National Diploma (three years full time) / B Tech (two years part time)

Five semesters of formal training and one semester of suitable work integrated learning (Laboratory Practice III). No student will be permitted to register for work integrated learning (Laboratory Practice III) if he or she has not passed all the subjects prescribed for the first five academic semesters. Students must register as student medical technologists with the Health Professions Council of South Africa within four months after the commencement of their studies.

Registration as a qualified medical technologist takes place four years after registration as a student medical technologist, provided that the candidate has obtained the National Diploma: Biomedical Technology. The candidate must also have worked for at least 14 months in a laboratory approved by the Health Professions Council of South Africa and have passed the board examination of the Council.

Evaluation

No student will be permitted to enroll for the second-semester subjects unless he or she has passed at least five subjects in the first semester. A 100% attendance is compulsory for all practicals.

Work Integrated Learning

Work integrated learning must be done with an accredited laboratory. These laboratories are approved for training purposes by the Health Professions Council of South Africa (HPCSA). Training starts from the 1st week in July to November.

Job description

Biomedical technology involves the analysis of amongst others blood, sputum, urine, faeces and histological samples. As sophisticated instruments and techniques are used to analyse samples, a medical technologist must acquire a sound understanding of the procedures and a high level of competence in order to perform the analyses accurately. Medical technologists work in different medical disciplines and usually specializes in the one of his/her preference e.g. Clinical Pathology (Chemical Pathology, Haematology and Microbiology), Histology, Cytology, Virology, Blood Transfusion. and others.

Job opportunities

Medical Technologist.
Company representative for medical and laboratory products.
Research assistant at medical research institutions.

Qualification structure

Qualifications at Tshwane University of Technology are offered within a three year qualification structure. Students register directly for this qualification, but are offered the opportunity to obtain approved qualifications by applying for a National Diploma, where applicable, at approved exit levels once they qualify. The highest qualification which can be obtained within this structure is the Doctorate in Technology.

CLOSING DATE FOR APPLICATIONS

15 August

ACADEMIC ENQUIRIES ARCADIA CAMPUS

Dr.Keolebogile Shirley Motaung
Tel. (012) 382-6265
Fax: (012) 382-6262

N DIP: VETERINARY TECHNOLOGY

Duration

National Diploma (three years full time)
Four semesters of formal training with two semesters of suitable experiential training.

B Tech (two years part-time)

Students must register with the South African Veterinary Council within thirty days after the commencement of their studies.

Evaluation

No student will be permitted to enroll for the second-semester subjects unless he or she has passed at least four subjects in the first semester. A minimum of 90% attendance is compulsory for all practicals.

Work Integrated Learning

No student will be permitted to register for the second semester of work integrated learning if he or she has not passed all the subjects prescribed for the first three academic semesters. A student may do integrated learning with an approved employer only, and although the University undertakes to assist students with placement for integrated learning, it is the student's own responsibility to find an accredited employer. All prescribed compulsory and chosen subjects (instructional offerings) as well as the work integrated learning component must be passed in order to obtain sufficient credits to qualify for the qualification in question.

Job description

The work of a veterinary technologist is mainly laboratory-orientated and supports the total veterinary industry. Diagnostic work, research and vaccine production.

Job opportunities

Veterinary technologist at research institutes, provincial veterinary laboratories, pharmaceutical companies, private laboratories and laboratory animal centres.

Qualification structure

Qualifications at Tshwane University of Technology are offered within a three year qualification structure. Students register directly for this qualification, but are offered the opportunity to obtain approved qualifications by applying for a National Diploma, where applicable, at approved exit levels once they qualify. The highest qualification which can be obtained within this structure is the Doctorate in Technology.

CLOSING DATE FOR APPLICATIONS:

15 August

ACADEMIC ENQUIRIES

Mr LJ Gerber
Tel. (012) 382-6261 Fax: (012) 382-6262



N DIP: CLINICAL TECHNOLOGY

Duration

National Diploma (three years full time)/B Tech (two years part time)

Four semesters of formal training and two semesters of appropriate cooperative education in a unit approved by the Health Professions Council of South Africa. No student will be permitted to register for cooperative education if he or she has not passed all the subjects prescribed for the first four academic semesters. Students must register as student clinical technologists with the Health Professions Council of South Africa within thirty days after the commencement of their studies. Registration as a qualified clinical technologist takes place three years after registration as a student clinical technologist, provided that the candidate has obtained the National Diploma: Clinical Technology. The candidate must also have worked for at least 12 months in a unit approved by the Health Professions Council of South Africa.

Evaluation

No student will be permitted to enroll for the second-semester subjects unless he or she has passed at least four subjects in the first semester. A 100% attendance is compulsory for all practicals.

Experiential training

Experiential training in one of the fields of specialization must be done with an accredited employer.

Job description

Ascertaining clinical information by means of modern medical technology from patients with physiological dysfunctions in one of the following fields: Cardiology, Pulmonology, Nephrology, Cardiovascular Perfusion, Reproductive Biology, Critical Care and Neurophysiology.

Job opportunities

Clinical technologist at clinical departments of academic hospitals, private hospitals and private practices.

Qualification structure

Qualifications at Tshwane University of Technology are offered within a three year qualification structure. Students register directly for this qualification, but are offered the opportunity to obtain approved qualifications by applying for a National Diploma, where applicable, at approved exit levels once they qualify. The highest qualification which can be obtained within this structure is the Doctorate in Technology.

CLOSING DATE FOR APPLICATIONS:

15 August

ACADEMIC ENQUIRIES

Ms JM Swart

Tel. (012) 382-6263 Fax: (012) 382-6262

N DIP: RADIOGRAPHY (DIAGNOSTIC)

Duration

National Diploma (three years full time) / B Tech (two years part time - contact days)

Experiential Training (Co-operative training)

In-service training is done in co-operation with mainly the private sector. Training starts from the first year on a continuous basis.

These training facilities are approved for training purposes by the Health Professions Council of South Africa.

Job description

The goal of radiography is to provide radiographic images of the highest quality to facilitate radiological diagnoses of the highest accuracy to provide quality service care in the health sector. In order to achieve these images one gets exposure to and training in using state of the art equipment such as general radiography, fluoroscopy, computerized tomography, magnetic resonance imaging and mammography.

Job opportunities

Radiological departments as radiographer, Department of Health as radiation control officer and Medical- and pharmaceutical firms as a representative. Render radiographic service as an independent practitioner.

Qualification structure

The qualification structure for Radiography (Diagnostic) offered at Tshwane University of Technology is a basic (3 years) National Diploma course (first exit level), and a B. Tech qualification (2 years part-time - contact days).

CLOSING DATE FOR APPLICATIONS:

15 June

ACADEMIC ENQUIRIES

Dr M vd Watt

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GENERAL ENQUIRIES

Ms A Bronkhorst

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Tshwane University
of Technology

We empower people

Faculty of Science

Department of Biomedical Sciences



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