

# Start your future career in Biotechnology

Diploma in Biotechnology



## CONTACT

+27 (0)21 460 9097  
ntwampes@cput.ac.za



Cape Peninsula  
University of Technology

creating futures

Are you passionately curious about all living organisms?

Biotechnology is one of the most rapidly expanding sciences internationally. You will become competent in the theoretical, applied and general skills across a variety of scientific and technology disciplines. Biotechnologists are involved in the industrial use of living organisms (or parts of organisms) to produce food, drugs and other products. This ranges from fermentation, plant and animal hybridisation, to genomics.

You will train in modern, well-equipped laboratories on our campus and when you graduate you may register with the South African Council for Natural Scientific Professions as a Candidate Natural Scientist.

### YOU WILL LIKE THIS IF

You enjoy science, have strong analytical skills and an aptitude for research.

### YOU WILL STUDY AT

District Six Campus

### YOU WILL STUDY FOR

Three years, full-time (Mainstream programme)  
Four years, full-time (Extended Curriculum Programme/ ECP)

## YOUR SUBJECTS

### FIRST YEAR

- Biotechnology: Introduction
- Mathematics
- Physics for Biology
- Microbiology
- Biochemistry
- Bio-analytical Chemistry
- Immunology

### SECOND YEAR

- Biochemistry 2
- Microbiology 2A
- Operations Management
- Bioprocessing 2A
- Microbiology 2B
- Bio-analytical Chemistry 2
- Molecular Biology Techniques
- Bioprocessing 2B
- Work-Integrated Learning (WIL) Preparedness

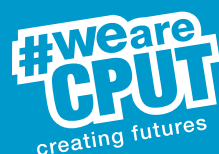
### THIRD YEAR

- Work-Integrated Learning (WIL)
- Applied Biotechnology
- Research Methodology
- Biotechnology Integrated Project



## Your on-the-job training

**You are required to complete** 10 – 12 months of industrial training in a suitable facility, primarily in the following areas: Research and development, quality control and manufacturing.



## YOUR FUTURE SELF

### Future studies

Advanced Diploma in Biotechnology

Masters in any of the following:

- Plant Biotechnology, Bioresources
- Engineering, Environmental microbiology

Doctorate in any of the following:

- Plant Biotechnology, Bioresources
- Engineering, Environmental microbiology

### Future industries

Bioprocessing/ Biomanufacturing industry  
Food and beverage industry  
Pharmaceutical industry  
Pulp and paper industry  
Wastewater treatment plants  
Agriculture and forestry  
Research institutions  
Academic institutions  
Research councils  
Government departments

### Future career

Biotechnologist  
Microbiologist  
Quality controller  
Product developer  
Researcher

creating futures in biotechnology

## WHAT YOU NEED

### Minimum Admission Requirements

#### National Senior Certificate (Grade 12) with:

- English, Home or First Additional Language (4)
- Mathematics (4)
- Physical Science (4)
- Life Sciences (4)

The department utilises an Admission Point Score (APS) as selection criteria once your minimum admission requirements are satisfied. You also have to score a minimum of **26** for the Extended Curriculum Programme and **28** for the mainstream programme on the APS.

## HOW TO APPLY



### MANUAL APPLICATIONS

Do you qualify to apply manually?

**Please note:** a non-refundable application fee will be applicable. Manual applications are only available to the following persons:

- Applicants applying for RPL (Recognition of Prior Learning)
- Non-South African citizens
- South-African citizens with international qualifications
- Applicants with permanent residence in South Africa
- Refugee asylum seeker temporary permit/formal recognition of refugee status in the RSA

- 1 Choose a qualification
- 2 Complete an application form
- 3 Gather your documents (i.e. certified copies less than three months old)
- 4 Fill in the application form
- 5 Pay the application fee
- 6 Hand deliver or post your form and certified copies of documents to our District Six, Bellville, Mowbray Wellington Campuses (Admin buildings)
- 7 Follow-up and get your admission status via the online application tracking system by visiting [www.cput.ac.za/study/track](http://www.cput.ac.za/study/track)



### ONLINE APPLICATIONS

Do you qualify to apply online?

ONLINE APPLICATIONS ARE FREE

The following persons may only apply online, i.e. no manual applications will be allowed:

- South African citizens with South African qualifications
- Returning students with a break in studies (more than 1-year break)

- 1 Choose your qualification by consulting this brochure or the website
- 2 Gather your documents (i.e. certified copies less than three months old)
- 3 Download the online application guide available on our website for information on how to apply online
- 4 Complete your application online by visiting [www.cput.ac.za/study/apply](http://www.cput.ac.za/study/apply)
- 5 Follow-up and get your admission status via the online application tracking system by visiting [www.cput.ac.za/study/track](http://www.cput.ac.za/study/track)

### CLOSING DATES

**31 AUGUST**

International applicants

**30 SEPTEMBER**

South African citizens

### DISCLAIMER

Meeting the minimum requirements does not guarantee admission. This information is subject to change based on approval and accreditation of HEQSF aligned qualifications during 2018/ 2019.

Admission requirements may therefore differ between the existing qualification and the HEQSF aligned qualification. Please consult the CPUT website or faculty for updated information. Every effort has been made to ensure the accuracy of the information in this pamphlet; however the University reserves the right at any time, if circumstances require to make changes to any of the published details.