2019

# Start your future career in **Biotechnology**

## Diploma in Biotechnology

LTY

CONTACT

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Cape Peninsula
University of Technology

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## 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)<br>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.

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# 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

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# 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.

## 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.

# 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

## 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

5 Follow-up and get your admission status via the online application tracking system by visiting www.cput.ac.za/study/track

## CLOSING DATES

**31 AUGUST**
International applicants

**30 SEPTEMBER**
South African citizens

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