

Lycée Saint-Paul IV

# Lab Technician Bioanalyses and Controls



## Lycée Saint Paul 4 Technical school Saint Paul

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### A teaching anchored in bio-industries reality

These studies allow students to acquire theoretical and practical knowledge in most bio-industrial fields.

#### Pharmaceutical industry:

Antibiotics production in bioreactors, drug forms, controls, (FDA) marketing authorization ...

Cosmetics industry :

Formulation, achievement and study of an emulsion in a mixer, quality controls ...

#### Food industry:

Knowledge of the various Agro-Industrial sectors and associated techniques : water treatment, eggs, egg, dairy and meat products, cereals ...

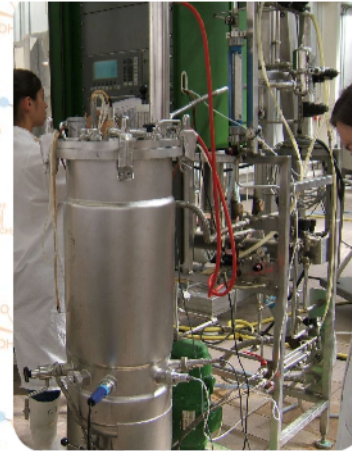
HACCP procedures, Good Manufacturing Practices  
Codex Alimentarius standards ...

#### Metrology:

Methods or instrument validations, statistical analysis ...

#### Environment preservation :

Pollution measurement, remediation process ...



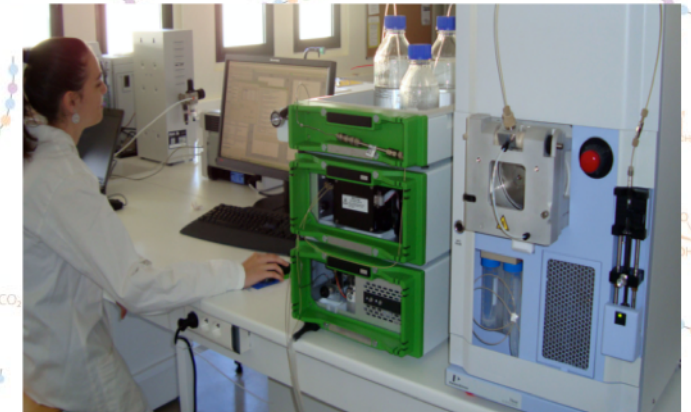
### Technical skills of Bioanalyses and Controls Technicians trained in Reunion Island

Their main mission is to implement and optimize analyses techniques.

This implies they have been trained to handle chemical and biological products and to use laboratory instruments in biochemistry, microbiology, immunology as well as molecular biology and cell culture.

They are therefore able to :

- Perform any technical task in the laboratory.
- Report on their work and results using modern communication techniques.
- Use technical and scientific English documents.
- Contribute to the development, implementation and monitoring of a production.
- Assess risks analysis and prevention.
- Participate in the existing quality approach.





## Who :

Our technical course is dedicated to post A-level students with either scientific or technological subjects.

We sometimes integrate university students who feel they have chosen the wrong course, when they are motivated.

## What for :

A Lab Technician graduated from the BTS Bio Analysis and Controls in Saint Paul 4 is able to perform autonomously most of the experiments done in control laboratories from most industrial fields : pharmacy, cosmetology and food industries, environmental controls, forensic science...

They are prepared to work in various departments in industry like research and development, quality tests, metrology, production controls....

## Where :

The students follow a 2-year practical and theoretical course in the Lycée St Louis.

It includes a few days in an industrial platform (AGIR) where they learn the processes used in the food and drug industries (fermentation, pasteurization,...) and 14 weeks of internship in an industrial control lab.

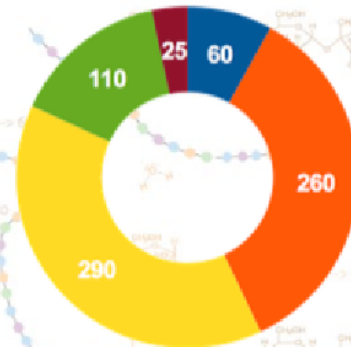
## Examination :

Their graduation is validated by a French National exam (equivalent to 120 ECTS)

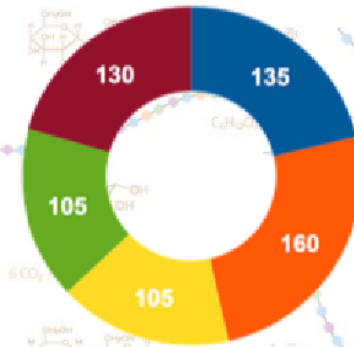
## The teaching in the BTS BioAc (number of hours for 2 years)

### Vocational Teaching (1380 h)

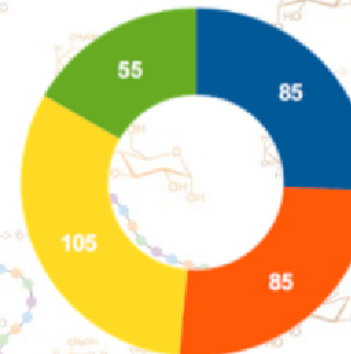
#### Practical work (745 h)



#### Theoretical work (635 h)



#### Other courses (330 hours)



- Physics and Chemistry
- Biochemistry  
CPG – HPLC -  
Electrophoresis ...
- Microbiology  
Aerobiocontamination,  
membrane filtration
- Molecular and Cell Biology  
PCR – Cell culture ...
- STBI / Industrial platform  
Pasteurisation –  
Microfiltration ...

- English
- French
- Maths
- Bioinformatics

