

# BIOPHARMACEUTICAL PRODUCTION TECHNOLOGY

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**235.CO**

John Abbott College offers Québec's only English language production technology program focusing on biotechnologies and the pharmaceutical industry.

Housed in the Anne-Marie Edward Science building, the laboratory spaces are designed to train students in both sterile and non-sterile manufacturing processes, dry-form manufacturing, liquid/ointment/cream manufacturing, fermentation, harvesting, sample-testing techniques and quality control as well as the packaging of various dosage forms.



## THIS PROGRAM IS FOR YOU IF...

- You are interested in science and technology.
- You are organized, meticulous, and have good problem-solving skills.
- You are interested in a career in the bio-technology sector.
- You enjoy working independently and as a member of a team.

## AS A BIOPHARMA STUDENT, YOU WILL LEARN FLEXIBLE AND TRANSFERABLE SKILLS IN THE FOLLOWING AREAS

- Communication
- Decision making
- Health and safety
- Problem solving
- Professional ethics

During your final semester you will be introduced to the job market and will gain invaluable work experience by completing a stage at a local company.



## WHERE BIOPHARMACEUTICAL PRODUCTION TECHNOLOGY CAN TAKE YOU!

Graduates will find work with companies employing bio-processing as well as traditional production techniques such as: pharmaceutical, cosmetic, nutraceutical, food & beverage production and bioremediation.

## ADMISSION REQUIREMENTS

DES  
+ Mathematics CST 5 or TS 4 or SN 4

## POTENTIAL INDUSTRIAL SECTORS OF JOB OPPORTUNITIES:

- Traditional pharmaceutical industry
- Pharmaceutical - generic
- Biotechnology
- Natural Health Products (NHP)
- Contract Manufacturing Organizations (CMOs)
- Contract Research Organization (CROs)
- Cosmetics industry
- Food industry



### EXAMPLES OF JOB OPPORTUNITIES:

- Manufacturing/production technologist who work on blending, granulation, and compression.
- Biotechnology technologist (fermentation, purification, filtration, etc.)
- Quality control associate
- Quality assurance associate
- Research & development technologist
- Regulatory affairs and compliance associate
- Production planner
- Equipment validation/qualification associate

### JOB PLACEMENT RATE UPON GRADUATION IS 100%.

### APPLIED RESEARCH JOB OPPORTUNITIES WHILE WORKING TOWARDS YOUR DEC:

Students frequently participate on applied research projects run by our faculty for which they have received NSERC grants. Students who have this opportunity get the added benefit of being exposed to industry specific equipment and technology. Recent research projects include:

- Oral drug delivery systems
- Stealth nanocapsules for passive drug targeting
- Microencapsulation using spray-drying technology



### HOW TO APPLY

John Abbott College is affiliated with the *Service régional d'admission du Montréal métropolitain* (SRAM) and uses its online application service.

To apply:

- complete the online application at [admission.sram.qc.ca](http://admission.sram.qc.ca),
- select John Abbott College and the program of your choice along with the corresponding program number, and
- if applicable, send all required documents and the application fee.

Students whose prerequisites are more than five years old should contact the Admissions office.

The application deadline is March 1. All documents and payment must be submitted by the deadline.

**Program start: fall**

## PROGRAM PLANNER

### FIRST SEMESTER

603-101-MQ	English
109-101-MQ	Physical Education
____-____-__	Complementary Course
202-1B5-AB	Introduction to Chemistry
420-184-AB	Computerized Systems
235-114-AB	Introduction to the Profession
235-144-AB	Good Manufacturing Practice 1
235-154-AB	Liquid Manufacturing 1

### SECOND SEMESTER

603-1__-MQ	English
602-1__-MQ	French
345-10_-MQ	Humanities
201-284-AB	Statistics
235-213-AB	EHS & Toxicology
235-224-AB	Production Best Practices
235-244-AB	Good Manufacturing Practice 2
235-254-AB	Liquid Manufacturing 2

### THIRD SEMESTER

603-1__-MQ	English
109-102-MQ	Physical Education
244-3B4-AB	Applied Physics
235-314-AB	Quality Control
235-323-AB	Production Planning
235-344-AB	Oral Solid Dosage (OSD) Manufacturing 1
235-354-AB	Packaging 1

### FOURTH SEMESTER

60603-200-AB	English
109-103-MQ	Physical Education
345-10_-MQ	Humanities
101-484-AB	Microbiology
235-444-AB	OSD Manufacturing 2
235-454-AB	Packaging 2
235-474-AB	Sterile Manufacturing 1
235-484-AB	Quality Assurance 1

### FIFTH SEMESTER

345-21_-AB	Humanities
602-20_-MQ	French
____-____-__	Complementary Course
235-515-AB	Bioprocessing
235-544-AB	Validation 1
235-574-AB	Sterile Manufacturing 2
235-584-AB	Quality Assurance 2

### SIXTH SEMESTER

244-6B4-AB	Introduction to Controls & Automation
410-6B5-AB	Production Management
235-614-AB	Clean Utilities & Equipment
235-624-AB	Continuous Improvement
235-645-AB	Validation 2
235-63B-AB	Stage