

# ENGINEERING TECHNOLOGIES

engineering.tech@johnabbott.qc.ca  
JOHNABBOTT.QC.CA

**244.A0**

This program combines electronic, mechanical, thermal, computer, automation and photonic technologies. It provides students with a hands-on approach in which they not only learn about science and technology, but also apply what they are learning. It is the only Engineering Technologies program of its kind in Québec. Small classes give students the opportunity to work one-on-one with faculty while exploring the rapidly evolving fields of applied engineering technologies. Courses will be given on the John Abbott campus with opportunities to use the OPTECH Montréal facilities situated at Cégep André-Laurendeau.



## **THIS PROGRAM IS FOR YOU IF...**

- You are interested in science and technology.
- You like to take devices apart to see how they work.
- You are fascinated by technology and all its gadgets.
- You prefer learning through practical implementation of the technology.
- After graduating from CEGEP, you like having the options of either starting your career or continuing your studies at university.

## **STUDENTS IN ENGINEERING TECHNOLOGIES LEARN:**

- a wide range of modern electronic, mechanical, optical, thermal and robotic engineering subjects,
- engineering-related computer skills,
- to understand complex technologies using systematic and logical approaches,
- to design, build, and repair circuits and machines,
- where industry uses technology.



## **WHERE ENGINEERING TECHNOLOGIES CAN TAKE YOU!**

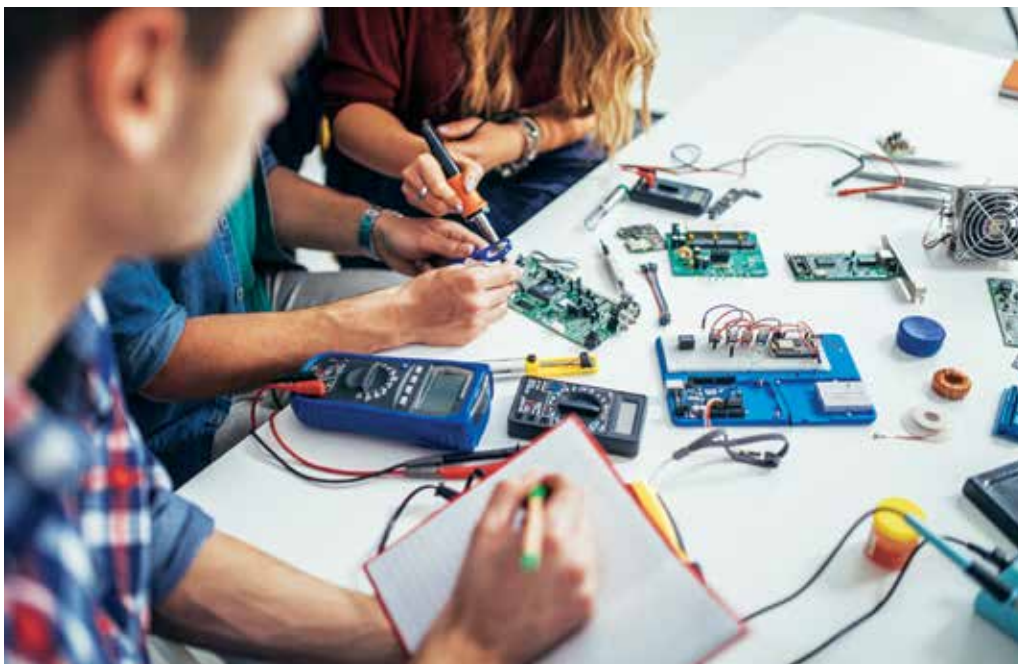
Graduates who choose to enter the work force immediately upon graduation have excellent career prospects. In addition, there are a significant number of graduates who successfully pursue their studies in Electrical, Mechanical, Building, Civil or Computer Engineering or Physics.

## **ADMISSION REQUIREMENTS**

DES

+ Mathematics TS 5 or SN 5

+ Science EST 4 or SE 4



## PROGRAM PLANNER

### FIRST SEMESTER

603-101-MQ	English
345-1__-MQ	Humanities
109-1__-MQ	Physical Education
201-115-AB	Mathematical Models 1
244-105-AB	Introduction to Technology
244-113-AB	Circuit Assembly
244-124-AB	Electric Assembly
244-144-AB	Light and Sound

### SECOND SEMESTER

603-1__-MQ	English
345-1__-MQ	Humanities
201-225-AB	Mathematical Models 2
244-204-AB	Design and Simulation
244-225-AB	Electronic Circuits
244-235-AB	Control Logic
244-255-AB	Matter and Heat

### THIRD SEMESTER

603-1__-MQ	English
109-1__-MQ	Physical Education
	Complementary Course
244-315-AB	Workshop Techniques
244-335-AB	Introduction to Control Systems
244-345-MQ	Applied Physics Technologies
244-355-AB	Thermodynamics and Heat Transfer
244-374-AB	Introduction to Optics

### FOURTH SEMESTER

602-1__-MQ	French
__-__-__-__	Complementary Course
244-414-AB	Management and Maintenance
244-435-AB	Automation and Control
244-446-AB	Motion and Energy
244-465-AB	Thermal Applications
244-475-AB	Materials

### FIFTH SEMESTER

603-200-AB	English
345-21_-MQ	Humanities
244-536-AB	Robotics
244-555-AB	Energy Analysis
244-586-AB	Project 1

### PHOTONICS PROFILE 244.A1

244-576-AB	Advanced Optics
------------	-----------------

### ENERGY MANAGEMENT 244.A2

244-596-AB	Building Construction and Automation
------------	--------------------------------------

### SIXTH SEMESTER

602-2__-AB	French
109-103-MQ	Physical Education
244-635-AB	Data Acquisition and Analysis
244-644-AB	New Technologies
244-686-AB	Project 2

### PHOTONICS PROFILE 244.A1

244-684-AB	Opto-electronics
244-696-AB	Photonics

### ENERGY MANAGEMENT 244.A2

244-656-AB	Industrial Energy Audit
244-604-AB	Manufacturing

## TWO EXIT PROFILES TO CHOOSE FROM

By default, students enter the Photonics profile in their first semester. At the end of semester four, they have the opportunity to choose either the Photonics or Energy Management exit profile for the last year of study.

**PHOTONICS PROFILE:** Photonics, the study of generating and controlling photons, includes opto-electronics, fibre-optics and imaging systems, and has applications in diverse fields including telecommunications and medical technologies.

OR

**ENERGY MANAGEMENT PROFILE:** Energy Management, the study of energy generation and use, includes the engineering techniques used to measure, analyze and optimize the energy consumption associated with the heating, cooling, ventilation, electrical, and lighting systems found in residential, commercial and industrial facilities.



## 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**