PROGRAM DESCRIPTION

- Biotechnology uses the products and processes of living organisms to improve quality of life. Applications include gene therapies to treat genetic disorders; more effective medicines tailored to individuals; vaccines to prevent disease; environmental decontamination to restore polluted spaces; genetic engineering of crops and livestock to improve their yield and nutrition... even making cheese and beer
- Hands-on learning combines classroom theory and practical, lab-based instruction
- Students gain experience with a wide variety of instrumentation, with instruction in genetics, microbiology, fermentation and forensics
- The fundamentals of genetic analyses and genetic engineering allow students to apply the same techniques used to engineer GMOs, extract and amplify DNA, and analyze genetic differences using DNA profiling
- The third year focuses on intensive, laboratory-based instruction and project-based learning in molecular biology, microbiology, analytical instrumentation, tissue culture and cutting-edge extraction technologies
- Overlapping areas of study provide the option to fast-track your way to a second diploma in Chemical Engineering or Environmental Technology

APPROXIMATE COSTS (2013-2014)

Domestic Tuition/Ancillary Fees: \$3,659 (two semesters)

Consumables Fee: \$105 (Year One) Books and Supplies: \$1,040

Additional costs, such as travel and parking, may be incurred

during placements

ADMISSION REQUIREMENTS

Required Academic Preparation

- OSSD/OSSGD or equivalent with courses at the general or advanced, (C), (U) or (M) level, and
- Grade 12 English (C) level or equivalent OR
- Mature applicant (see loyalistcollege.com)

Recommended Academic Preparation

- Grade 12 Mathematics, Chemistry, and Physics at the (C), (U) or general level
- Applicants with a related degree or diploma may be considered for advanced standing or direct entry into Year Two

DIPLOMA TO DEGREE OPTIONS

Earn credit recognition at these institutions, or contact your university of choice to make individual arrangements. New agreements are added annually; visit loyalistcollege.com for the latest details.

Two or Three-Year Diploma

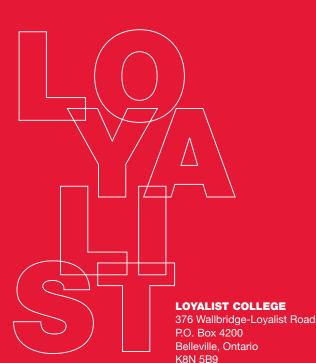
Algoma University College Athabasca University Carleton University - Bachelor of Science (Honours) Davenport University Griffith University Guelph University - Bachelor of Science

Laurentian University

Royal Roads University - Bachelor of Science University of Ontario Institute of Technology

Three-Year Diploma

Trent University - Bachelor of Science (Honours)



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BIOTECHNOLOGY TECHNICIAN/TECHNOLOGY





BIOTECHNOLOGY TECHNICIAN/TECHNOLOGIST



Contact: biot@loyalistc.on.ca

PROGRAM LENGTH

Two-Year Ontario College Diploma (Technician) Three-Year Ontario College Advanced Diploma (Technologist)

HIGHLIGHTS

- Biotechnology plays a critical role in the battles against hunger, disease and pollution
- You'll love studying in Loyalist's state-of-the-art Instrumentation and Molecular Biology Labs, equipped with PCR and DNA sequencing technology
- Get on-the-job, practical experience during field placements in Years Two and Three
- Choose a career where you can make a difference

CAREER OPPORTUNITIES

- A career in biotechnology holds many opportunities to make an impact in government, industry, education and medical facilities
- •There is a growing demand for skilled technicians, lab technologists and research assistants to work in life sciences, agriculture, food production, pharmaceuticals, sanitation, and health research
- Graduates also find opportunities in regulation and enforcement, quality control, and sales



OUR GRADS GET GREAT JOBS

Santa Maria Foods – Quality Control Analyst Royal Military College

- Research and Development Bioniche Life Sciences Inc.

Biopharmaceutical Production Assistant
Ottawa Hospital Research Institute

- Health Researcher

Huntsville Wine and Beer

- Brewmaster/Biotechnician

Percentage of grads working:* 100%

*2011-12 academic year. Source: KPI Survey 2012 (Forum Research Inc. for Ministry of Training, Colleges at Universities)

