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GLOBAL EDUCATION
FOR A COMPLEX WORLD.

BCIT®
BRITISH COLUMBIA
INSTITUTE OF TECHNOLOGY


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BCIT IS ONE OF CANADA'S LARGEST POST-SECONDARY INSTITUTIONS AND A WORLD LEADER IN APPLIED EDUCATION.

BCIT Downtown Campus

A Message from the Interim President

At the British Columbia Institute of Technology (BCIT), learning is flexible, accredited, hands-on, and industry-focused. As one of British Columbia's largest post-secondary institutes with five campuses and over 45,000 students, BCIT offers over 300 programs in the fields of environmental science, health, business and media, trades, engineering, and computing.

The depth and breadth of BCIT programs are further enriched by the diversity of our students and instructors. Each year, BCIT welcomes 5,200 international students who come from more than 100 countries. Students are taught by instructors who are experts in their field.

Whether it's an associate certificate, certificate, diploma, bachelor's degree, or master's degree, all BCIT courses are developed with industry input and learning takes place in small, team-based classes. This creates ample opportunity for students to network and collaborate with their peers while gaining practical, hands-on experience for job-readiness.

Apart from full-time BCIT programs, there are flexible learning options for students who want to learn at their own pace but still receive the same applied, industry-focused, and accredited BCIT experience.

Outside of the classroom, BCIT offers work-integrated learning opportunities for students to gain real-world industry experience and connections before they graduate. These include partnering with industry for co-ops, practicums, internships, industry-sponsored projects, and field experiences.

BCIT frequently delivers customized programs to organizations and communities overseas. Through the years, we have sent hundreds of faculty and students to over 20 countries, and established training initiatives with more than 200 organizations worldwide.

I invite you to join our diverse and rewarding BCIT community.

Paul McCullough
Interim President
British Columbia Institute of Technology

The British Columbia Institute of Technology acknowledges that our campuses are located on the unceded traditional territories of the Coast Salish Nations of Sḵwx̱wú7mesh (Squamish), səl̓ilwətaʔɬ (Tsleil-Waututh), and xwməθkwəy̓əm (Musqueam).

300+
programs

5
campuses

45,000
students enrolled annually

6,500+
international students
from over 110 countries†

200,000
graduates since 1964

96%
employment rate for
BCIT degree graduates*

90%
employment rate for
BCIT diploma and
certificate graduates*

**BC Student Outcomes, prepared by BC Stats (2020).*

†BC Student Outcomes, prepared by BC Stats (2019/20).

ABOUT BCIT

BCIT is one of Canada's largest post-secondary institutes, with credentials ranging from certificates and diplomas to bachelor and applied masters degrees.

Founded in 1964, the Institute serves the success of learners and employers by advancing the state-of-practice to provide high quality education and training that supports its graduates as practitioners.

BCIT develops partnerships with communities and industry—both in Canada and around the world—making BCIT integral to their economic, social, and environmental prosperity. BCIT's work-integrated education and training enables its graduates to distinguish themselves and influences employers to use BCIT's standards for their human capital development.

BCIT Aerospace Technology Campus

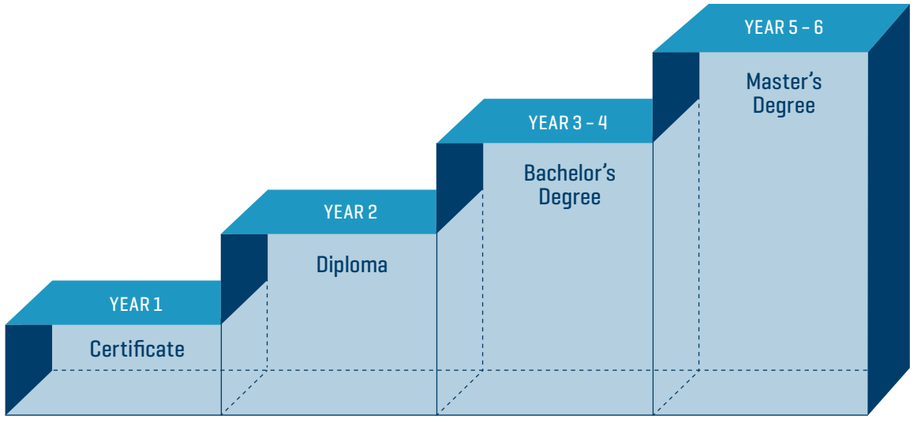
The BCIT Applied Education Model

Through its unique applied education approach, BCIT students gain the technical and hands-on skills needed to succeed in their chosen career. BCIT curricula are developed through close consultation with industry and delivered by instructors with direct experience in their fields.

Through internships, applied research, and project-based learning, students develop the industry-relevant competencies necessary for career success.

CREDENTIAL LADDERING

The BCIT progressive credential laddering model provides students with the opportunity to advance their education and upgrade their skills at an accelerated pace. This unique structure allows students to complete a credential and then continue their education or seek employment. Students may also return to further their education at a later date. By laddering educational growth, students gain a globally-renowned credential, specialized to their chosen career path.



MICROCREDENTIALS

BCIT offers a set of microcredentials that align with industry needs, positioning students to be adaptable as opportunities arise. Microcredentials are short programs that may be stacked to ladder into courses and programs that help students quickly master new skills and gain knowledge essential in Canadian industries.

Core Programs at BCIT

SCHOOL OF BUSINESS + MEDIA

- Accounting
- Bachelor of Accounting
- Bachelor of Business Administration
- Business Information Technology Management
  - Artificial Intelligence Management
  - Enterprise Systems Management
- Business Management
- Business Operations Management
- Finance
- Financial Planning
- General Insurance and Risk Management
- Global Trade and Transportation Management
- Human Resource Management

- Marketing Management
  - Entrepreneurship
  - Marketing Communications
  - Professional Sales
  - Tourism Management

- 3D Modeling, Art and Animation
- Communication Design Essentials
- Digital Design and Development
- Graphic Communications Technology Management
- Graphic Design (Associate Certificate)
- Master of Digital Media (joint Master's – UBC, SFU, Emily Carr & BCIT)
- New Media Design & Web Development
- Technical Arts (Advanced Diploma)

- Broadcast and Online Journalism
- Radio Arts and Entertainment
- Television and Video Production

SCHOOL OF COMPUTING AND ACADEMIC STUDIES

- Bachelor of Technology in Computer Systems
  - Games Development
  - Network Security Applications Development
- Bachelor of Technology in Forensic Investigation
- Computer Information Systems Administration
- Computer Information Technology
- Computer Systems Technology
- Front-End Web Developer
- Full-Stack Web Development
- Network Administration and Security Professional
- Software Systems Developer – Web Programmer Option
- Technology Support Professional

SCHOOL OF CONSTRUCTION AND THE ENVIRONMENT

- Architectural and Building Technology
- Bachelor of Architectural Science
- Bachelor of Engineering in Mining and Mineral Resource Engineering
- Bachelor of Engineering in Civil Engineering
- Bachelor of Interior Design
- Bachelor of Science in Ecological Restoration
- Bachelor of Science in Geomatics
- Bachelor of Technology in Construction Management
- Bachelor of Technology in Environmental Engineering
- Fish, Wildlife and Recreation
- Forest and Natural Areas Management
- Geographic Information Systems (Advanced Diploma)
- Geomatics Engineering Technology
- Interior Design
- Master of Applied Science in Building Engineering/Building Science
- Master of Engineering in Building Science
- Master of Science Ecological Restoration
- Mineral Exploration and Mining Technology

SCHOOL OF ENERGY

- Bachelor of Electrical Engineering
- Bachelor of Mechanical Engineering
- Bachelor of Technology in Manufacturing
- Chemical and Environmental Technology
  - Analytical Science
  - Process Engineering
- CNC Machinist Technician
- Electrical and Computer Engineering Technology
  - Automation and Instrumentation
  - Electrical Power and Industrial Control
  - Telecommunications and Networks
- Industrial Instrumentation and Process Control Technician
- Industrial Network Cybersecurity (Joint program with School of Computing)
- Mechanical Engineering Technology
  - Mechanical Design
  - Mechanical Manufacturing
  - Mechanical Systems
- Mechatronics and Robotics
- Power Engineering
- Technology Teacher Education
- Telecommunications Systems Technician
  - Radio Systems
  - Telecommunications Networks

SCHOOL OF HEALTH SCIENCES

- Bachelor of Science in Food Technology and Operations Management
- Bachelor of Science in Biotechnology (joint program with UBC)
- Bachelor of Technology in Environmental Health – Public Health Inspection
- Biomedical Engineering Technology
- Cardiology Technology
- Food Technology
- Medical Radiography
- Nuclear Medicine
- Nursing
- Occupational Health and Safety
- Prosthetics and Orthotics
- Radiation Therapy
- Specialty Nursing
  - Critical Care
  - Emergency
  - High Acuity
  - Neonatal
  - Nephrology
  - Pediatric
  - Perinatal
  - Perioperative

SCHOOL OF TRANSPORTATION

- Aircraft Maintenance Engineer Category 'M' – Maintenance
- Aircraft Maintenance Engineer Category 'E' – Electronics
- Airline and Flight Operations Commercial Pilot
- Airport Operations
- Automotive Service Technician and Operations
- Bachelor of Technology in Technology Management
- Heavy Duty Truck Technology
- Marine Engineering
- Nautical Sciences

WORK INTEGRATED LEARNING

BCIT programs are designed to meet the needs of industry with innovative curriculum, industry-experienced instructors, state-of-the-art facilities, equipment, and technology. With BCIT's unique industry-driven learning methodology—including project-based learning, co-ops, practicums, and internships—students graduate with a winning combination of skills, knowledge, and competencies that quickly launch rewarding careers.

The Spartan Controls Centre for Energy Education and Research allows students to work on some of the most advanced energy management systems available.

APPLIED RESEARCH

Guided by a multidisciplinary team of researchers and faculty, our Applied Research department follows a model that benefits students, faculty, industry, and the public by:

- Providing innovative solutions to industry challenges
- Producing commercially relevant technology, products, and applications
- Creating practical learning opportunities for students

BCIT's core applied research expertise includes:

- Smart Micro-grid Applied Research Technology (SMART)
- MAKE+ Multidisciplinary Research Group
- Rehabilitation Engineering Design Lab (REDLab)
- Building Science Centre of Excellence
- Centre for Architecture Ecology

A research assistant for the Natural Health and Food Products Research Group conducts tests in the Phytoanalytics Lab.

PARTNERSHIP INITIATIVES

Brazil

Chile

China

France

Germany

Hong Kong

India

Indonesia

Italy

Japan

Kenya

Mongolia

Philippines

Russia

South Africa

South Korea

Sweden

Taiwan

Trinidad

Turkey

Ukraine

Vietnam

The EcoCity World Summit 2019, hosted by BCIT in collaboration with the City of Vancouver and Tourism Vancouver. The Summit is the longest-standing international conference focused on building cities in balance with nature. It is a biennial event with thousands of delegates from around the world.

Going Global

Through the mobility of faculty and students—in addition to the transferability of credentials and credits—BCIT is committed to providing students with international pathways to advance their careers by:

- Providing opportunities globally to enhance the international competitiveness of our programs and students
- Working with partners to develop dual credential programs and establish transfer credit options
- Supporting international students and faculty to upgrade skills and advance their professional qualifications
- Working with industry partners to meet the challenges faced by companies around the world
- Facilitating the mobility of students and faculty studying and teaching abroad
- Providing teacher training and curriculum development consultation that enables institutions to become world-class education providers
- Future-proofing education and careers through digital transformation to promote new models of business operation

Services for International Students

INTERNATIONAL STUDENT CENTRE

The International Student Centre (ISC) is a vital link to services and resources available to support international students, both on and off campus, including issuing letters of verifications, conducting orientations, helping students to register for medical insurance, and much more.

The ISC also produces a monthly newsletter and organizes regular social activities for international students to foster community.

CAREER SERVICES

Career Services support students during their studies at BCIT to ensure students are ready to transition to a rewarding career. The services range from resume and interview workshops and one-on-one appointments with career specialists to employee panels and hiring fairs with hundreds of employers.

PEER MENTORING

Peer Mentoring connects international students with a student mentor to help them better navigate their BCIT experience. In this program, international peer mentors provide guidance and support to new international students throughout the first two months of the term.

SUMMER SCHOOLS

BCIT hosts summer programs for university groups from different countries and regions—including Brazil, China, Chile, France, Japan, Korea, and Taiwan—tailoring the curriculum to suit each group's academic goals. Student groups have a number of program options to choose from, such as Aircraft Maintenance, Airport Operations, Computer Systems Technology, and more. Students have the option to live on campus or with homestay families.

BCIT Aerospace Technology Campus

Student Life and Support

RECREATION SERVICES

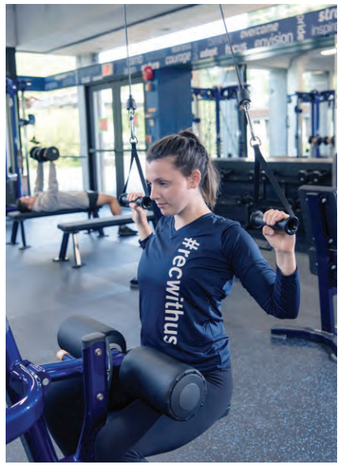
BCIT Recreation Services promotes, encourages, and enables the practice of physical and mental well-being. BCIT considers recreation to be an integral part of campus life and welcomes all students and staff to enjoy these services.

ON-CAMPUS HOUSING

BCIT Student Housing offers comfortable and convenient accommodations for full-time BCIT students and apprentices.

TUTORING

To support student learning, drop-in sessions with peer tutors are scheduled six days per week from September to May. This service is free for BCIT students.



Clockwise:
Students have free access to the Fitness Centre—a large training facility equipped with the latest equipment and machines.

Located on the Burnaby Campus, student housing is a great way to share experiences with people from different backgrounds.

Media Works, BCIT's self-service production facility, offers help and project consultation, as well as access to services, including 3D printing, scanning, video editing, and poster mounting.

International Mobility

STUDENT OUTBOUND

BCIT offers scholarships and financial assistance for students to participate in Summer Field School, Global Education Ambassador Exchange, and other global mobility programs.

The unique program enables domestic students to develop global competencies through extensive international experiences to enhance their career development and employment opportunities. Over 200 BCIT students have benefitted from this program.

A new outbound program is funded by Global Affairs Canada for BCIT students to undertake international activities in Agile Learning and Digital Transformation initiatives.

FACULTY OUTBOUND

The International Mobility Fund (IMF) provides opportunities for BCIT faculty to participate in research and teaching overseas. These activities promote global competitiveness, recognition, and experiential growth for individuals and the Institute to keep our educational offerings current.

The IMF supported BCIT Geomatics Engineering Technology instructor Eric Saczuk to map the Antarctic with drone technology to retrieve important data used for climate change research.

BCIT Geomatics Engineering Instructor Dr. Eric Saczuk in Antarctica using drones as a tool to study climate change backed by the International Mobility Fund.

International Industry Services

INTERNATIONAL CREDENTIAL EVALUATION SERVICE

The International Credential Evaluation Service (ICES) is the provincially mandated credential evaluation service for British Columbia. This service provider is also a member of the Alliance of Credential Evaluation Services of Canada (ACESC). Whether students need their credentials evaluated for employment, immigration, licensure, admission to post-secondary educational institutions, or general interest, ICES is there to help.

TTA TECHNOLOGY TRAINING ASSOCIATES

TTA Technology Training Associates Ltd., established in 1991, is a wholly owned subsidiary of British Columbia Institute of Technology (BCIT) in Canada. Through International Industry Services at the Institute, TTA develops partnerships, projects, and initiatives to benefit international industry by putting BCIT's theory into practice.

Since its inception, TTA has provided training programs for its international clients, specifically for managerial and technical personnel from developing countries in Asia and Africa. It also manages-educational programs between BCIT and a dozen post-secondary educational institutes in Brazil, South Korea, and China.

TTA Technology Training Associates Ltd. works on many international development projects around the globe including transportation initiatives like the China Western Roads Development Project, supported by the Canadian International Development Agency.

BURNABY CAMPUS

The largest BCIT campus is home to hundreds of specialized learning spaces, including classrooms, shops, labs, simulators, broadcast studios, green roofs, energy grids, forests, and waterways. The campus includes The Centre for Applied Research and Innovation (CARI) and is home to BCIT's dedicated research groups, the Centre for the Internet of Things, and Applied Research Liaison Office, the research office providing support to researchers across BCIT.

DOWNTOWN CAMPUS

Located at the heart of Vancouver's business and tech core, the Downtown Campus is home to the state-of-the-art Technology Education and Collaboration (TEC) Hub, an innovative IT learning space.

AEROSPACE TECHNOLOGY CAMPUS

With over 20 aircraft at the 285,000 square-foot campus in Richmond, BCIT is the largest post-secondary aerospace trainer in Canada.

ANNACIS ISLAND CAMPUS

Located in Delta, this 142,000 square-foot facility is home to heavy mechanical trades programs and the Emissions Reduction Research and Testing Hub (ERRTH), as well as a certified industrial railway.

MARINE CAMPUS

Located in North Vancouver, the waterfront campus has bridge and engine room simulators—as well as an indoor pool—so nautical and marine engineering students can gain experience with realistic scenarios in a safe environment.

Cover photos:

1 Students explore the 140-ton Maschinenfabrik Augsburg-Nürnberg (MAN) engine at the Annacis Island Campus.

2 An Environmental Health student monitors the temperature of a product to ensure food safety.

3 Researchers at the Centre for Architectural Ecology on the Burnaby Campus use living walls to test for acoustic and air quality performance.

4 BCIT students learn about solar panels on the roof of the SW1 building on the Burnaby Campus.

5 BCIT Computing grads work at Paladin Security.

6 BCIT Electrical Engineering grads work with atmospheric diving suits and undersea technology at Nuytco Research Ltd.

7 A Nursing student uses a virtual reality scenario in the simulation lab at the Burnaby Campus.

8 A Technology Teacher Education Instructor teaches a student about robotics at the Burnaby Campus.

9 Ecological Restoration students gain practical experience in Guichon Creek on the Burnaby Campus.

10 Computer Information Technology students collaborate on a project in the TEC Hub at the Downtown Campus.

BCIT®

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