

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

DESK COPY



Path Finder

PROGRAM GUIDE | 2006-2007

DESK COPY



THE PATH YOU CHOOSE CAN MAKE ALL THE DIFFERENCE



Many paths.

BCIT OFFERS A DIFFERENT PATH OF LEARNING FOR PEOPLE AT ANY AND EVERY CAREER AND LIFE STAGE. WHETHER YOU'RE JUST GETTING STARTED, OR BUILDING ON PREVIOUS EDUCATIONAL OR PROFESSIONAL EXPERIENCE, FOLLOWING BCIT'S UNIQUE PATH OF LEARNING WILL GIVE YOU MORE THAN THE SKILLS YOU NEED TO GET A JOB; YOU WILL GAIN THE KNOWLEDGE YOU NEED FOR A CAREER.

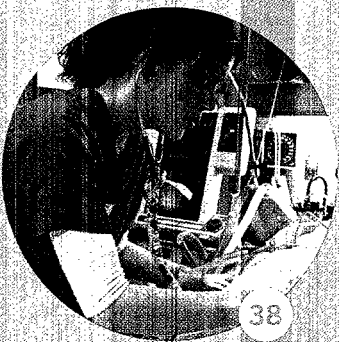
You get from here to there through a combination of academic teaching and applied learning. Award-winning instructors share their experience in their fields, and continue to conduct applied research to make new discoveries accessible to the marketplace. Students apply what they learn before they leave BCIT.

The many paths that lead from BCIT all begin with the choices made by individual students to pursue their dreams here. We hope you will be one of them. Use this Path Finder to help you map your way.

ENJOY YOUR TRIP.

One starting point.

Contents



- 3 Education at BCIT
- 5 Excellence in Education
- 6 Applied Education and Research
- 8 Study Options
- 9 Credentials
- 10 Welcome to the West Coast
- 11 Global Perspectives
- 12 Campuses
- 13 Student Services and Organizations
- 14 Student Life
- 15 Finding your Path
- 17 Access and Transfer Programs
- 18 Business and Media Programs
- 24 Computing and IT Programs
- 28 Engineering, Applied and Natural Sciences Programs
- 38 Health Sciences Programs
- 44 Trades, Vocational and Apprenticeship Programs
- 60 Admissions Information
- 65 How to Apply
- 67 Costs to Attend BCIT
- 68 Paying for your Education
- 69 Credential Index
- 71 Index

Education at BCIT

WITH MORE THAN 200 FULL-TIME PROGRAMS, ANOTHER 190 CREDENTIALLED PROGRAMS OFFERED THROUGH PART-TIME STUDIES, DISTANCE EDUCATION OR ONLINE LEARNING, AND OVER 1,600 COURSES, THE BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY OFFERS A DIVERSE RANGE OF STUDY OPTIONS. PURSUE YOUR EDUCATION IN ONE OF THE FOLLOWING PROGRAM AREAS:

- Business and Media
- Computing and Information Technology
- Engineering, Applied and Natural Sciences
- Health Sciences
- Trades, Vocational and Apprenticeship.

The basis for each area is the same. As a polytechnic institute, BCIT focuses on applied learning. That means you don't just learn facts and theories – you put them into practice.

LEARNING – THE BCIT WAY

You'll learn a lot in your time at BCIT. Our grads say it's hard work, but well worth it. And the relatively short timeframe of many programs means you'll be on the path to success that much sooner.

Through small classes and team assignments, you will get to know your instructors and classmates well, developing friendships and industry networks that will last for years. Smaller classes also mean better access to lab and shop equipment.

You'll emerge with finely-tuned time management and organizational skills. You'll be prepared for the multi-tasking required in your career because you've had to set priorities and plan your actions to support them. Group assignments help you learn from each other as well as reinforcing the communication and teamwork skills you'll need in any field. Now that's a well-rounded education.



WHAT IS A POLYTECHNIC INSTITUTE, ANYWAY?

The term polytechnic comes from the Greek words for "many" and "arts." So, as you might guess, a polytechnic institute offers a diverse range of programs. What makes a polytechnic different from a university is that the merging of academic and applied (practical) learning is emphasized. Polytechnic institutions also maintain close ties with industry and conduct applied research.

ENT OR HIGHER FOR

TING SALARY OF GRADUATES

D PER MONTH.^②

O 2011, 44 PER CENT

ILL REQUIRE A FORM

Y TRAINING OTHER

L UNIVERSITY DEGREE.^③

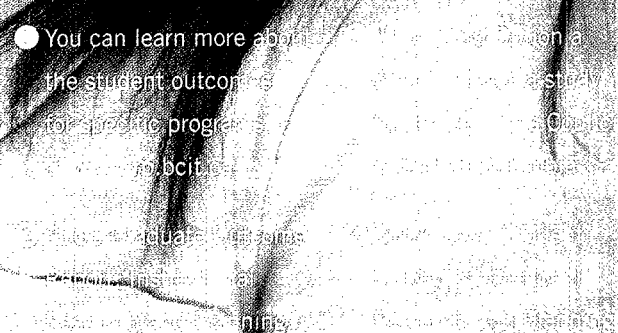
STUDENTS STATED

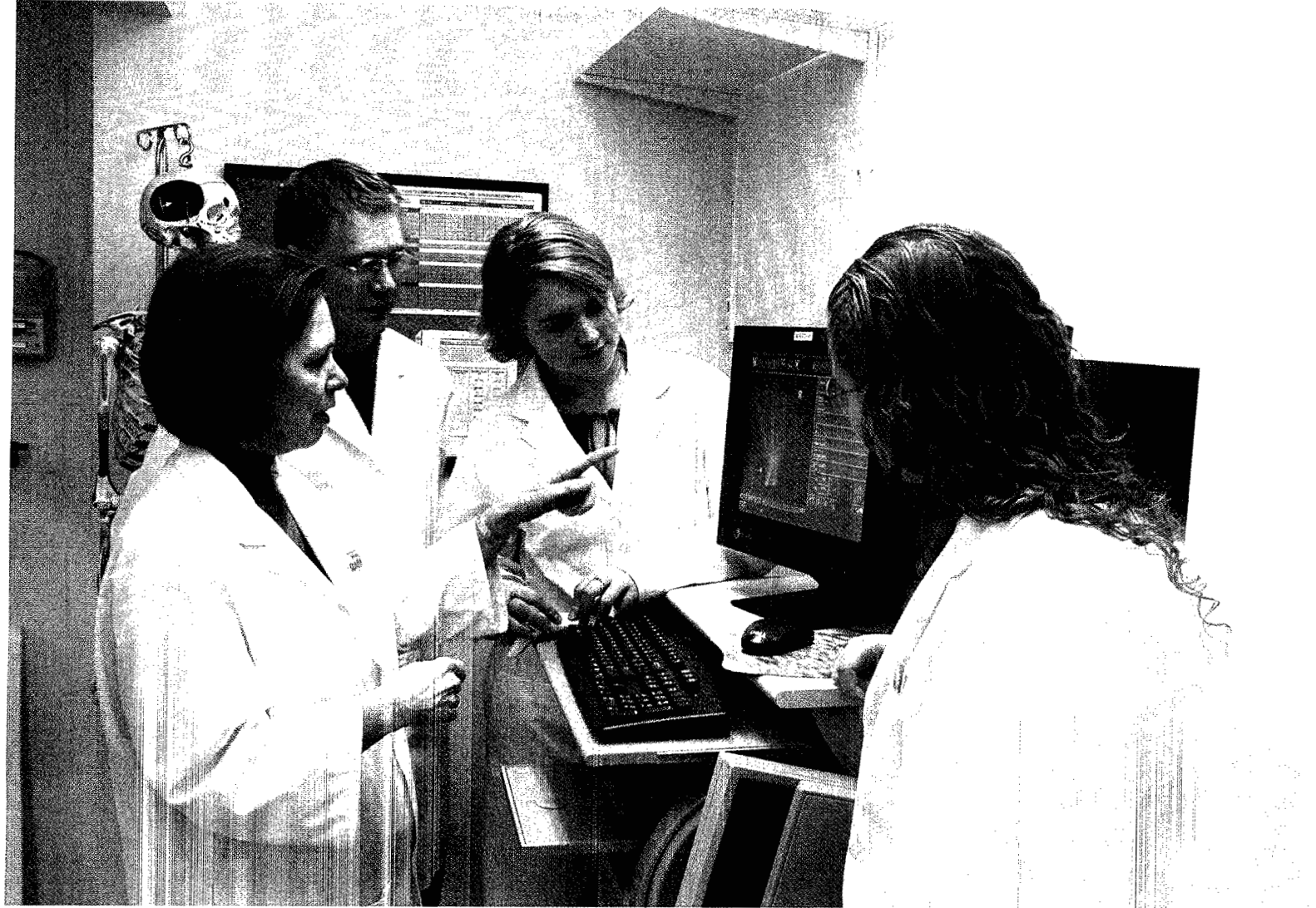
IR FIRST CHOICE

ON TO ATTEND

INSTITUTE.^④

- You can learn more about the student outcomes for specific programs at [www.bcit.ca/graduate](#).

- 
- You can learn more about the program at www.berkeley.edu/education or by contacting the student outcomes research team at education@berkeley.edu or by calling 415.746.0000.



Excellence in Education

BCIT PROGRAMS ARE DESIGNED IN CONSULTATION WITH LEADING EMPLOYERS in related industries. Advisory Committees meet regularly with our deans and program heads to advise on new software, help improve technology and ensure that curriculum is up to date and in line with industry trends. That way, employers can tell us what we should teach you so that you will have the skills and knowledge they are looking for when you graduate.

And you can be sure that you're learning from the best. In order to teach at BCIT, faculty must be leaders in their industry, with years of relevant, practical experience. We encourage our instructors to keep active in their industry in order to upgrade skills and stay on top of industry changes.

But even more important than having the knowledge is the desire to share it. Faculty members know their students by name and care about their education. They are committed to helping you meet your educational and career goals.



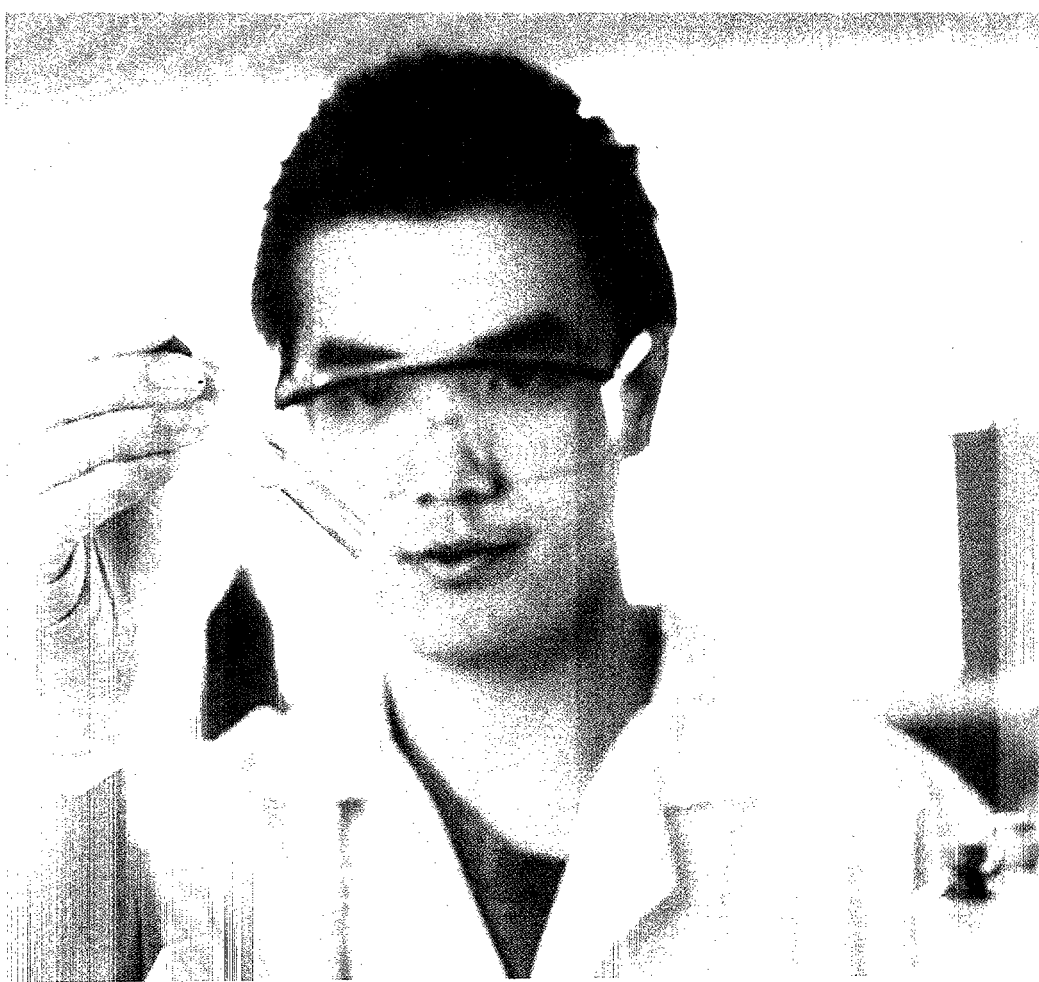
Applied Education

BCIT SPECIALIZES IN APPLIED LEARNING. AS A STUDENT, YOU'LL LEARN THE THEORIES BEHIND HOW YOUR INDUSTRY WORKS, THEN YOU'LL PUT THEM INTO PRACTICE YOURSELF. THAT MEANS WHAT YOU'RE STUDYING IS RELEVANT TO YOUR FUTURE CAREER – AND YOUR EVERYDAY LIFE.

Here are some examples of what you might find yourself doing:

- a simulated work project in the classroom, lab, clinic, or workshop
- an industry-sponsored project, where you and fellow classmates solve a program for a real client
- a practicum or work period in your industry
- a supervised clinical term in a hospital
- a combination of such opportunities.

Because you'll spend about half of your time as a student completing practical, hands-on training projects, when you get to your first job, you'll know exactly what to do, as well as why it's done that way. Employers know that's what they can expect from BCIT grads, and they look for it. Applied learning works for everyone.



and Research



WHAT'S APPLIED LEARNING?

Applied is another word for practical. Applied learning combines theory with hands-on training, and refers to an educational model that challenges students to apply what they are learning academically to a situation or problem in the real world.

APPLIED LEARNING EXAMPLE #1

NAME OF PROJECT: Online Power Boiler Simulator

NAME OF SCHOOL: School of Manufacturing, Electronics and Industrial Processes

The online power boiler simulator supports BCIT's power engineering program by providing an interactive learning environment in which students gain essential knowledge of power boiler processes and operations. The graphical user interface of the boiler simulator mimics the real thing, giving students the opportunity to start up, run, and shut down a power boiler system. Using dynamic process data complete with process indication and alarms, students solve operating problems they might face in the workplace.

Applied Research

MOVING TECHNOLOGY OUT OF THE LAB AND INTO THE REAL WORLD

The object of research is to gain new knowledge or understanding. Applied research goes one step further, developing practical applications to solve existing problems. Research conducted at BCIT is focused on activities with industrial and commercial relevance, where partnerships lead to benefits for the Institute, business and industry, and students. Our commercialization office then helps bring those applications to the marketplace where they can make a difference in people's lives. In the process, these activities provide unparalleled learning opportunities for scientists and students alike.

The Institute's extensive research and development resources include:

- a team of faculty dedicated to research in a wide range of fields
- faculty and students from approximately 200 technical programs
- extensive and unique research facilities and equipment.



Study Options

TAILOR YOUR EDUCATION TO FIT YOUR LIFE. COME TO SCHOOL FULL TIME OR WORK WHILE YOU STUDY FOR A NEW CAREER OR UPGRADE IN YOUR CURRENT ONE. HOWEVER YOU WANT TO LEARN, THERE'S SURE TO BE AN OPTION TO SUIT YOU.

FULL-TIME STUDIES

Taking a full-time program is kind of like having a full-time job. Classes run for approximately seven hours per day, five days per week (usually between 7 a.m. and 5 p.m., but not always). Once you are accepted in a full-time program at BCIT, you are automatically registered in the courses you require to complete it.

Visit www.bcit.ca/study/options to learn more.

CO-OPERATIVE EDUCATION

Co-op education involves alternating classroom terms with paid work terms. A co-operative education credential takes longer to complete, but you will gain experience and a contact network along the way. Visit www.bcit.ca/co-op for more information.

APPRENTICESHIP

The long-established system of apprenticeship includes short, scheduled periods of formal training at BCIT, interspersed with extensive on-the-job training and paid work experience. Apprentices must be working for an employer as an apprentice and must be registered as an apprentice with the Government of B.C. BCIT offers apprenticeship training in more than 30 trades. To find out more, contact the Apprentice Service Office at 604-456-8100 or 1-800-667-0676, e-mail apprentice@bcit.ca or visit www.bcit.ca/apprenticeship.

DISTANCE EDUCATION

If you can't come to BCIT, sometimes BCIT can come to you. Distance Education includes:

- correspondence learning, in which you work on your own at your own pace
- guided learning, in which you work on your own but according to a predetermined schedule, and with guidance from an instructor
- online learning, in which you participate in virtual classes online without ever leaving your home.

Visit www.bcit.ca/distance for more information.



PART-TIME STUDIES

Your path. Your pace.

Part-time Studies allows you to take individual courses when – and often, where – it's convenient for you. It's all about flexibility. You can take individual courses that are of interest to you, or you can work toward earning a credential. It's a great way to explore career possibilities without a full-time commitment. BCIT offers three Part-time Studies terms per year, in the fall, winter and spring. Visit www.bcit.ca/pts for details.



Credentials

MOST BCIT PROGRAMS ARE DESIGNED SO YOU CAN BUILD ON THEM. FOR EXAMPLE, YOU MAY BEGIN WITH A CERTIFICATE, UPGRADE TO A DIPLOMA, THEN COMBINE YOUR WORK EXPERIENCE WITH ADDITIONAL COURSEWORK TO EARN A DEGREE.

MASTER'S DEGREES

Several applied master's degrees are under development at BCIT. They will build on our degree programs, offering students a higher level of applied knowledge and the opportunity to conduct research in their field. With their combination of higher learning and applied research, these programs will position graduates for career advancement, provide increased salary potential and form the basis for lifelong learning.

DEGREES

A degree from BCIT gives you the best of both worlds: a recognized bachelor's credential and practical training for job readiness.

BCIT degrees focus on applied learning to ensure that students graduate not only with sound theoretical knowledge but also with the competencies to apply that knowledge immediately on entering the workforce.

All BCIT degrees include academic specialty courses, management studies, and liberal studies. BCIT offers baccalaureate degrees of these types:

- Bachelor of Business Administration
- Bachelor of Engineering (*available September 2006*)
- Bachelor of Science
- Bachelor of Technology.

Many programs are available for either full-time or part-time study.

POST-DIPLOMA AND ADVANCED STUDIES

These programs build on prior education and experience, providing highly specialized theoretical and practical education in a particular field. Most post-diploma and advanced studies students already hold a degree or a BCIT diploma.

DIPLOMAS

Diplomas are awarded after an intense, program of studies; many (but not all) diploma programs are two years long. Once you're finished, you'll be ready to work – and succeed – in your chosen field. You can also use your diploma as a stepping stone to a related degree.

ASSOCIATE CERTIFICATES AND CERTIFICATES

These credentials are awarded after successful completion of a relatively short but specialized training program. Certificate programs can be completed in one concentrated period or course by course over a period of months or years. Many certificates can act as building blocks for earning further credentials.

To view programs listed by credential, flip to the credential index, page 69.

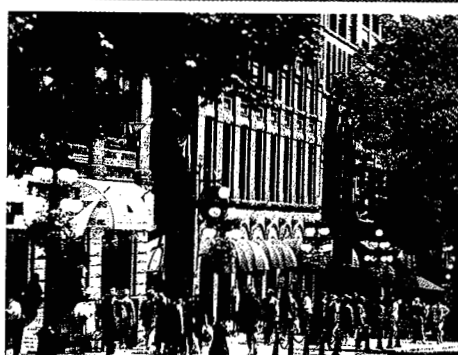
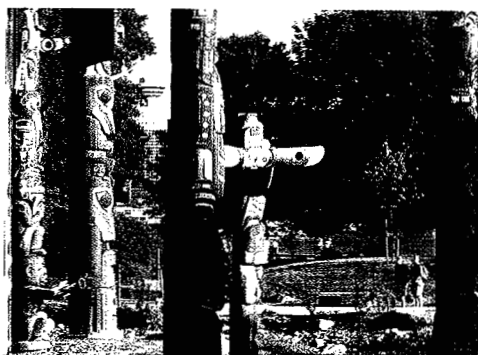




Welcome to the West Coast

GREATER VANCOUVER IS SITUATED ON CANADA'S WEST COAST IN THE PROVINCE OF BRITISH COLUMBIA AND ENCOMPASSES THE CITY OF VANCOUVER AND SURROUNDING MUNICIPALITIES.

Bordered by forests, mountains and the Pacific Ocean, Vancouver is a city of recreational and cultural opportunities. Safe, friendly and beautiful, Vancouver is a dynamic, multicultural city, and here you'll find shops and restaurants that reflect our worldwide mosaic and tastes. Canada's most temperate climate zone, Greater Vancouver is mild enough for flowers to bloom year-round, yet just is a short drive from world-class skiing and snowboarding.



PATHWAYS FOR INTERNATIONAL STUDENTS

BCIT has a distinctly international flavour, with approximately 1,000 students from 50 countries studying here. Meet people from around the world and add a global perspective to your learning. For information on the following resources, please contact the International Student Centre at:

Telephone: 604-432-8816

e-mail: infobcit@bcit.ca

www.bcit.ca/international

INTERNATIONAL STUDENT CENTRE

If you're an international student, make your first stop at BCIT the International Student Centre (ISC), which provides support and assistance to BCIT's international students. Here, you'll find friendly and helpful staff that will help you apply to BCIT, get settled, meet friends and join fun activities. The ISC staff is here to make your BCIT experience the best it can be.

Global Perspectives

AFFINITY PROGRAM

There are a lot of people to meet at BCIT, and many ways to meet them. Join some clubs, watch for event posters around the campuses, or sign up for the Affinity Program. Become an Affinity Newcomer or Affinity Host and take part in a program that matches new international students with experienced Canadian or international students. Contact ISC for details.

ORIENTATION

On your first day, participate in the International Students' Orientation. Explore the Burnaby campus, meet people, and discover the resources that are here to help you. Contact ISC for details.

HOUSING

In addition to the student housing and off-campus housing options listed on page 13, homestay (in which you live with a local family) is also available. If you wish, the International Student Centre can arrange for you to stay with a local family during your studies. You will learn more about Canadian culture, improve your level of English, and have the opportunity to participate in family events and traditions. Each homestay family provides a private room and three meals a day. See www.cvihomestay.com for further details.

WORKING IN CANADA

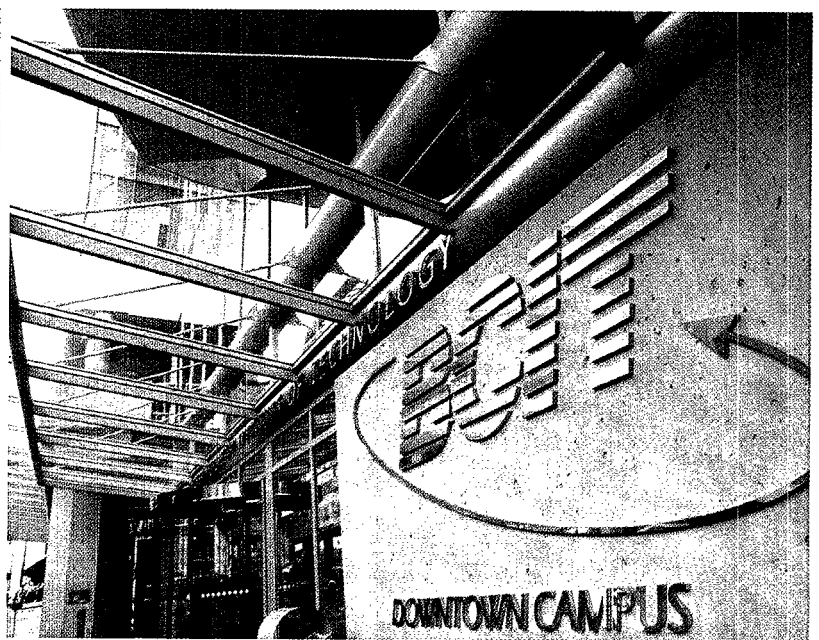
International students can sometimes work in Canada, but only in particular circumstances. Please contact ISC to see if you are eligible.

INTERNATIONAL STUDENT ADVISORS

International student advisors are great resources to help you plan your path or just answer questions about BCIT. Contact ISC for details.

ENGLISH LANGUAGE PREPARATION

BCIT partners with a number of private colleges to provide English-language and other training programs to international students. You can also take communication upgrading and placement classes through Part-time Studies. Contact ISC for assistance.



Campuses

DEPENDING ON YOUR PROGRAM OF STUDY,
YOU COULD LEARN AT ANY ONE OF BCIT'S
CAMPUSES OR MANY SATELLITE LOCATIONS.

clockwise from left:

BURNABY CAMPUS

3700 Willingdon Avenue, Burnaby

DOWNTOWN CAMPUS

555 Seymour Street, Vancouver

MARINE CAMPUS

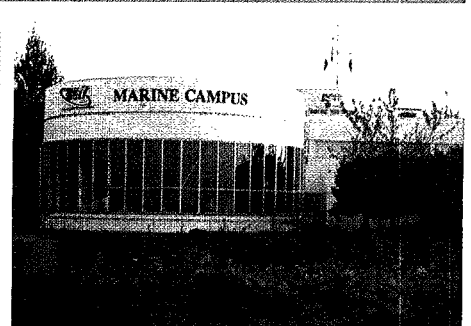
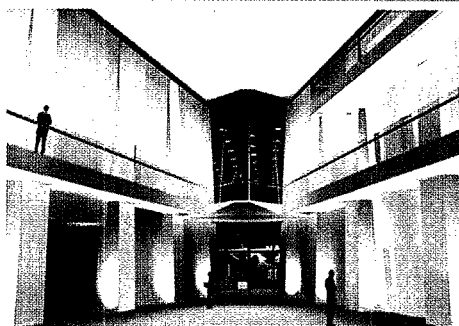
265 West Esplanade, North Vancouver

AEROSPACE TECHNOLOGY CAMPUS

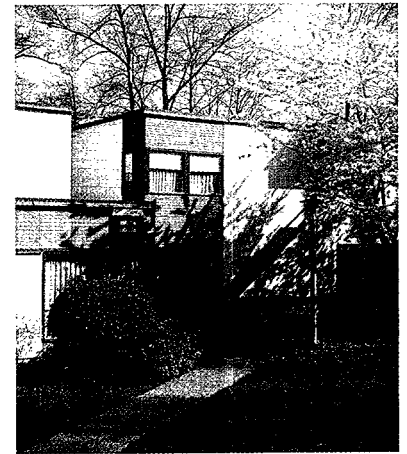
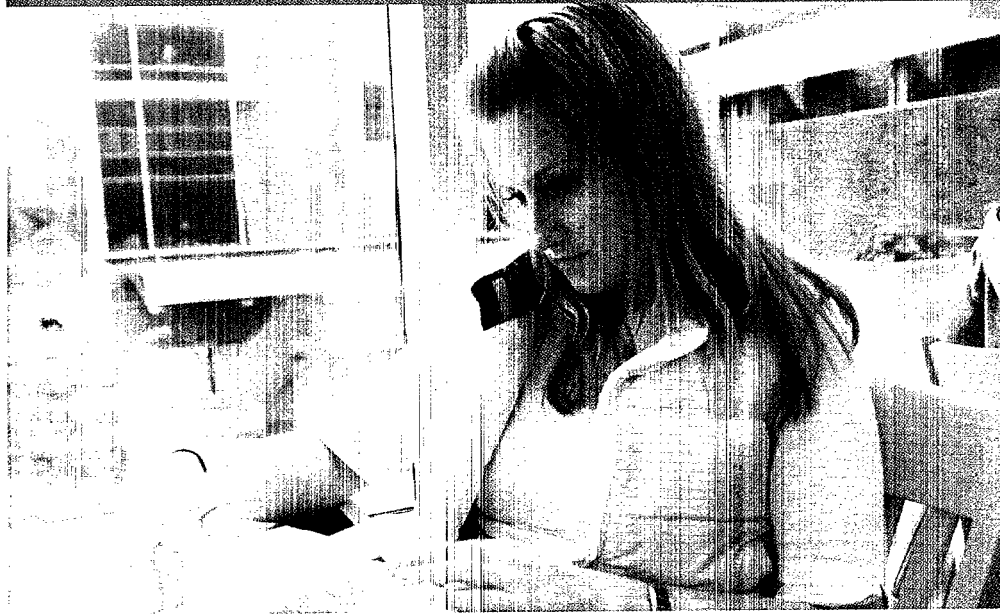
Vancouver International Airport
5301 Airport Road South, Richmond

GREAT NORTHERN WAY CAMPUS

555 Great Northern Way, Vancouver



ONCE YOU'VE CHOSEN BCIT, YOU'LL FIND WE OFFER A WIDE VARIETY OF SERVICES TO MAKE YOUR TIME HERE MORE PRODUCTIVE AND ENJOYABLE. VISIT WWW.BCIT.CA/LIFEATBCIT FOR MORE INFO.



STUDENT HOUSING

www.bcit.ca/housing

The Maquinna Residence, at BCIT's Burnaby Campus, offers comfortable and convenient accommodation for full-time BCIT students. But it's more than just a place to live during the academic year; it's an experience, and a home away from home. For all the physical comforts and close proximity to school, the real benefit of living in "rez" is the friendships you'll develop.

Located adjacent to the sports field and campus recreation facilities, Maquinna Residence accommodates 336 residents in 28 townhouses, which are divided into suites. Each suite accommodates 12 students and has shared kitchen, living/dining room, washroom, and laundry facilities.

Visit www.bcit.ca/housing to view lists of off-campus accommodation and even a roommate finder.

ABORIGINAL PROGRAMS AND SERVICES

www.bcit.ca/aps

BCIT BOOKSTORE

www.bcit.ca/bookstore

BCIT LIBRARY

www.lib.bcit.ca

BCIT STUDENT ASSOCIATION

www.bcitsa.ca

COUNSELLING SERVICES

www.bcit.ca/counselling

DISABILITY RESOURCE CENTRE

www.bcit.ca/drc

HARASSMENT AND DISCRIMINATION ADVISOR

www.harassment.bcit.ca

MEDICAL SERVICES

www.bcit.ca/healthservices

myBCIT CARD

www.bcit.ca/card

PROGRAM ADVISING

www.bcit.ca/advising

RECREATION SERVICES

www.bcit.ca/recreation

SAFETY AND SECURITY

www.bcit.ca/safetyandsecurity

STUDENT EMPLOYMENT SERVICES

www.bcit.ca/ses

STUDENT FINANCIAL AID AND AWARDS

www.bcit.ca/finaid

Student Services and Organizations



Student Life

WORK HARD. HAVE FUN. GET INVOLVED. HERE ARE A FEW WAYS TO DO SO.

FOR FULL LISTINGS AND
CURRENT INFORMATION,
VISIT THE RECREATION
SERVICES WEBSITE
AT WWW.BCIT.CA/RECREATION
OR THE STUDENT
ASSOCIATION'S WEBSITE
AT WWW.BCITSA.CA.

BCIT RECREATION SERVICES

INTRAMURAL LEAGUES INCLUDE:

- volleyball
- flag football
- ice and floor hockey
- basketball
- indoor soccer.

DROP-IN SPORTS INCLUDE:

- volleyball
- basketball
- badminton
- squash
- racquetball.

THE STUDENT ACTIVITY CENTRE ON THE BURNABY CAMPUS OFFERS:

- a climbing wall
- squash and racquetball courts
- outdoor track
- gym
- Fit Pit (which includes a full selection of weight machines and free weights, computerized cardio equipment, and various fitness classes)

- Recreation Services also schedules lots of special classes at beginner and experienced levels in such activities as sea kayaking, archery, scuba diving, dance, aerobics, kick-boxing, pilates, yoga and more.

CLUBS AND STUDENT ORGANIZATIONS INCLUDE:

- Advancing Canadian Entrepreneurship (ACE) BCIT
- Archery club
- Architectural Institute of B.C.
- Association for Interactive Marketers (AIM)
- BCIT Marketing Association (BCIT MA)
- BCIT Student Association
- (CIPS) Canadian Information Processing Society
- Chess club
- Indoor wall climbing club
- Institute of Electrical and Electronics Engineers
- Outdoor activity club
- *The Link* student newspaper
- Take Pride
- Toastmasters Club.

**FINDING YOUR WAY
IN THE WORLD CAN
BE EXCITING AND
OVERWHELMING AT
THE SAME TIME.
IF YOU'RE STILL
SEARCHING FOR
THE CAREER PATH
THAT MATCHES YOUR
GOALS, TRY THIS:**

Finding your path

BROWSE THE PROGRAMS

Programs at BCIT are divided into five categories, or areas of study. Read the introductions to each category – you might find that your skills and interests are a good fit for one or more.

TAKE ONE OF BCIT'S EXPLORATION COURSES WHICH INCLUDE:

Introduction to Career Planning

www.bcit.ca/study/courses/cepd0100

Career Testing

www.bcit.ca/study/courses/cepd0101

Career Search Workshop

www.bcit.ca/study/courses/hrmg0315

Degree Transfer in Science and Technology

www.bcit.ca/study/programs/0085000000

Trades Discovery – General

www.bcit.ca/study/programs/1150acert

Trades Discovery for Women

www.bcit.ca/study/programs/1160acert

The full-time Trades Discovery programs introduce you to many trades and provide hands-on experience in some. Upon completion, you will be able to evaluate your suitability for working in the trades, and determine which trade you wish to pursue.

CHECK OUT THESE RESOURCES THAT CAN HELP YOU CHOOSE A CAREER:

Self-assessment and career planning websites and books:

- www.bced.gov.bc.ca/careers/planning/
- <http://10steps.careerpathsonline.com/guide/>
- www.canadaprosppects.com/
- www.hrsdc.gc.ca/en/home.shtml
- *What Colour is Your Parachute?* by Richard Nelson Bolles (available at your local library along with others).

LEARN ABOUT OCCUPATIONS AND INDUSTRIES:

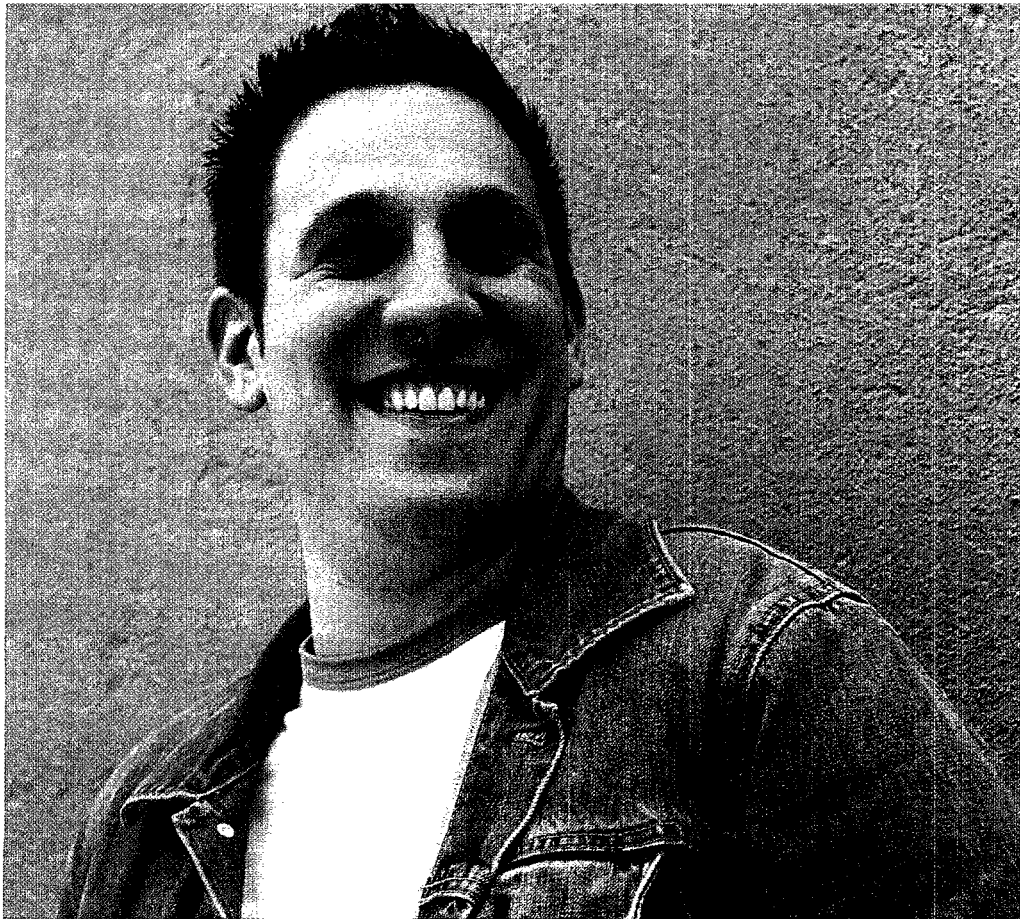
www.workfutures.bc.ca

www23.hrdc-drhc.gc.ca

<http://workinfolnet.bc.ca>

Industry associations and unions.





LEARN MORE ABOUT BCIT AND BCIT PROGRAMS

BIG INFO SESSION AND PROGRAM EXPO

- Every program – all in one place.
Held in October each year, this free session next happens from 5 p.m. to 8 p.m., Oct. 12, 2005, at the Burnaby Campus.

INFORMATION SESSIONS

- Learn more about the program(s) you're interested in. Held throughout the year.
Visit www.bcit.ca/infosessions or call 604-434-1610 for details.

CAMPUS TOURS

- Get to know the Burnaby Campus.
Visit www.bcit.ca/tours for details.

Finding your way

● ACCESS AND TRANSFER PROGRAMS

Detailed Program Information 17

● BUSINESS AND MEDIA PROGRAMS

Overview 18

Detailed Program Information 20

● COMPUTING AND INFORMATION TECHNOLOGY PROGRAMS

Overview 24

Detailed Program Information 26

● ENGINEERING, APPLIED AND NATURAL SCIENCES PROGRAMS

Overview 28

Detailed Program Information 30

● HEALTH SCIENCES PROGRAMS

Overview 38

Detailed Program Information 40

● TRADES, VOCATIONAL AND APPRENTICESHIP PROGRAMS

Overview 44

Detailed Program Information 46

OPEN HOUSE

- Held in April of even-numbered years, this campus-wide event allows you an inside look at BCIT's labs and classrooms, and showcases student projects and program displays. BCIT's next Open House happens April 7–8, 2006.

PROGRAM ADVISING

- Program Advisors can answer your program- and admission-related questions. Call 604-434-1610 to book an in-person appointment or to leave your name and number for a return phone call, or contact them online at www.bcit.ca/askanadvisor.

WWW.BCIT.CA

- Provides a wealth of information about studying and living at BCIT.

Access and Transfer Programs

ONCE YOU HAVE CHOSEN A CAREER PATH AND SELECTED A PROGRAM, IT IS ESSENTIAL TO IDENTIFY THE PROGRAM REQUIREMENTS. NO NEED TO BE DISCOURAGED IF YOU LACK A PREREQUISITE OR REQUIRE FURTHER ACADEMIC PREPARATION. BCIT OFFERS PROGRAMS AND COURSES THAT CAN HELP YOU PURSUE YOUR DREAM CAREER.

Degree Transfer in Science and Technology – Statement of Completion

Full-time – two years. Starts in September.
www.bcit.ca/study/programs/0085000000

DESCRIPTION Program: Study first and second year university science, mathematics and English, and complete a dynamic science and technology seminar. Satisfies post secondary level entrance requirements for Forensic Science, Environmental Health, Management, Technology Management, Biotechnology, Radiation Therapy, Nursing, Technology Teacher Education, Nuclear Medicine*, Medical Laboratory Science* and Prosthetics and Orthotics programs (*programs under development). Students who complete one or two years in the Degree Transfer Program may also be eligible for advanced placement into other BCIT identified diploma or BTech programs.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (B). Two (three preferred) provincially examined Grade 12 sciences (Biology, Chemistry, Physics) (C+ or higher). Principles of Mathematics 12 (C+ or higher) or an assessment (as prerequisite for Calculus), or Applied Mathematics 12 (B or higher) or an assessment (for programs not requiring Calculus). Entrance requirements must have been completed within the past ten years. Exceptions may be made for applicants with related post secondary course work.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Fresh Start (Trades Upgrading Program) – Statement of Completion

Full-time – 19 weeks. Starts in January and August.
www.bcit.ca/study/programs/0050000000

DESCRIPTION Program: Provides students with the prerequisite skills and knowledge required to successfully complete trades or technical studies training at BCIT. The program offers applied academic upgrading in math, physics, communications, computers and study skills. Applicants must complete the Trades pre-test to be referred to the program.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Part-time Studies

Part-time – courses are usually three to four months long and start throughout the year.
www.bcit.ca/pts

Studying part time is a great way to brush up on subjects like math and English, upgrade your skills, or prepare for full-time study.

ENTRANCE REQUIREMENTS As identified by your program of choice.

Technology Entry (TE)

Full-time – 15 weeks. Starts in September, January and April.
www.bcit.ca/study/programs/0090000000

DESCRIPTION Program: Ideal for those who want solid academic preparation before entering BCIT and those who are missing two or more prerequisites for a BCIT program. This day-school program provides academic upgrading for students who wish to enter a BCIT Technology program. For a listing of full-time programs that accept Technology Entry see www.bcit.ca/study/programs/0090000000.

ENTRANCE REQUIREMENTS English 11 (P), preference given to applicants with English 11 (C). Principles of Math 11 (C) or Academic Math 11 (C) or Applications of Math 11 (B). All entrance requirements for this program must have been completed within eight years of the application date. Additional assessment of student applications is required for some programs.

APPLICATION DETAILS Application Processing: September intake: Oct. 1 until program fills. January intake: June 1 until program fills. April intake: Oct. 1 until program fills. Applications are considered for a specific intake.

Trades Discovery (General) - Associate Certificate

Full-time – 20 weeks. Multiple start dates each year.
www.bcit.ca/study/programs/1150acert

DESCRIPTION Program: Practical training program which prepares students to enter and successfully complete trades/technical training or seek an apprenticeship. Students have extensive access to the trades and technical training programs at BCIT, and gain hands-on experience in approximately 20 different technical and trades fields.

ENTRANCE REQUIREMENTS High-school graduation or GED. Pre-test is acceptable for Math and English. Interview.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Trades Discovery for Women – Associate Certificate

Full-time – 20 weeks. Multiple start dates each year.
www.bcit.ca/study/programs/1160acert

DESCRIPTION Program: Practical training program which prepares women to enter and successfully complete trades/technical training or seek an apprenticeship. Students have extensive access to the trades and technical training programs at BCIT, and gain hands-on experience in approximately 20 different technical and trades fields.

ENTRANCE REQUIREMENTS High-school graduation or GED. Pre-test is acceptable for Math and English. Interview.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).



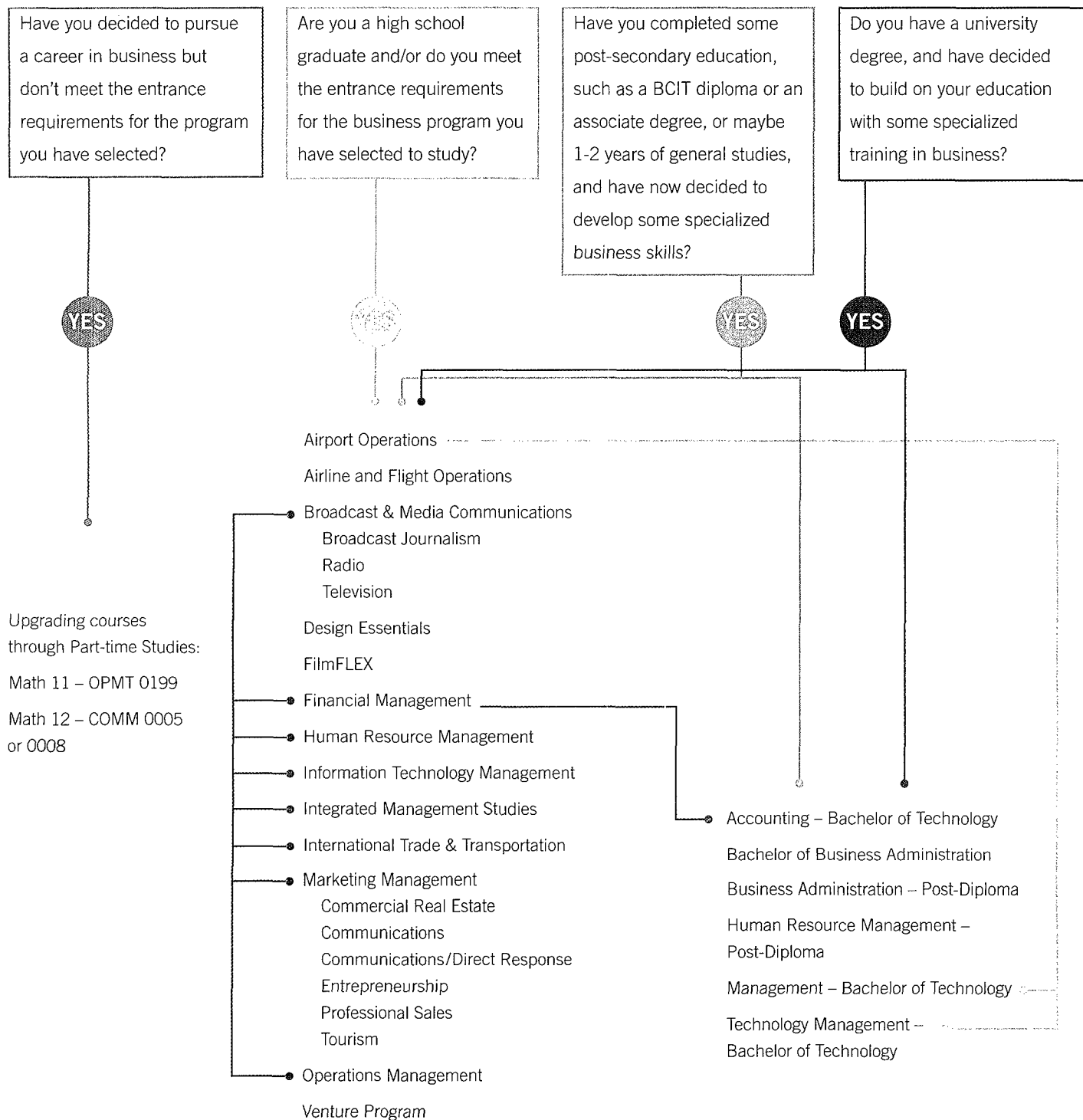
Business and Media

**ARE YOU A GOOD COMMUNICATOR? DO YOU ENJOY WORKING IN A TEAM ENVIRONMENT?
ARE YOU TECH-SAVVY?**

If you want to develop technical, interpersonal, communication, teamwork, and problem-solving skills, a career in business and media may be a good fit for you. BCIT's programs in business and media can help you construct a powerful toolkit of abilities that can be applied in various industries and business environments. You'll learn to process and analyse financial information, to communicate messages, sell and market products, use technology for managing processes, solve problems, supervise people, lead organizations, and develop and implement business plans.

Business people work in management, media, marketing, operations, finance, and administration. They can work for a non-profit organization or a large corporation, for the government or a private company, or they may own their own business.

Map your Path



Notes

- Unless otherwise noted, programs earn diploma- or certificate-level credentials.
- Other transfer and laddering opportunities may be available.
- Specified program prerequisites must be met regardless of previous post-secondary education.



Learn more about these programs

Accounting – Bachelor of Technology

Part-time (students must complete within 7 years).

Starts in January, April, and September.

www.bcit.ca/study/programs/8400btech

DESCRIPTION Program: An academic credential leading to a professional accounting designation or to an MBA program. You will acquire the key technical, interpersonal, communication, problem-solving and computer skills demanded by employers. Careers: Financial auditor, accountant, or financial manager.

ENTRANCE REQUIREMENTS English 12 or equivalent. BCIT Financial Management diploma or equivalent with an average of at least 70%. An interview with the program head (call 604-432-8786). Access to a computer with a modem.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Airline and Flight Operations – Commercial Pilot

See *Trades, Vocational and Apprenticeship*, page 47.

Airport Operations – Diploma of Technical Studies

Full-time – 16 months. Starts in September.

www.bcit.ca/study/programs/1070dipts

DESCRIPTION Program: Develops the skills to meet the demands of today's unique and dynamic airport operation environment. Includes lectures, demonstrations, and applied training. Students will be assigned industry-based activities that will be completed at local and/or regional and national airports. Careers: Ground transportation coordinator, baggage/gate scheduler, airfield operations specialist, or emergency response specialist or other work at airport businesses, suppliers and airports.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or BCIT English Language Assessment (COMM 0015), Math 11 or BCIT Math Competency Test. Valid B.C. driver's license. Completion of BCIT aerospace pre-entry assessment test for English, math and spatial perception. Letter of intent. **Note:** There are federal government and/or unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. The process is competitive. Candidates will be selected on the basis of highest academic standing and admission test results.

Broadcast and Media Communications – Broadcast Journalism – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/610adiplt

DESCRIPTION Program: News writing, audio and video editing, research, reporting and announcing are combined with a substantial background in politics, economics and other applicable subjects. Regular newsroom and field reporting operations develop students' experience in news judgment, reporting and presentation. Careers: Work throughout B.C. and the world over, wherever radio, television, cable facilities, audio and video production operations exist.

ENTRANCE REQUIREMENTS High-school graduation. English 12. Successful completion of an entrance exam that evaluates English literacy, current events awareness, general knowledge and broadcast industry awareness. Proficiency in keyboarding and applied computer skills. 500–1,000-word essay detailing personal history, career goals and reasons for choosing broadcasting as a career. Letters of reference. Resume. Possible interview.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Broadcast and Media Communications – Radio – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/610bdiplt

DESCRIPTION Program: Learn on-air performance and operations, interviewing, commercial copywriting, digital and analog production, and news and sports reporting on current industry equipment. Careers: Employment opportunities include: radio on-air host (disc jockey), commercial copywriter, audio producer, music programmer, production assistant, feature editor/reporter, researcher, news reporter.

ENTRANCE REQUIREMENTS High-school graduation. English 12. Successful completion of an entrance exam that evaluates English literacy, current events awareness, general knowledge and broadcast industry awareness. Proficiency in keyboarding and applied computer skills. 500–1,000-word essay detailing personal history, career goals and reasons for choosing broadcasting as a career. Letters of reference. Resume. Possible interview.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Broadcast and Media Communications – Television – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/610cdiplt

DESCRIPTION Program: This program covers commercial, public affairs, variety and studio program production, music videos, dramas, corporate and industrial videos, single-camera and studio production techniques, news video, editing and post-production, television audio and multi-track recording. Careers: Graduates are able to work in a variety of positions in television, video production houses, corporate and industrial production, cable television operations and as freelancers.

ENTRANCE REQUIREMENTS High-school graduation. English 12. Successful completion of an entrance exam that evaluates English literacy, current events awareness, general knowledge and broadcast industry awareness. Proficiency in keyboarding and applied computer skills. 500–1,000-word essay detailing personal history, career goals and reasons for choosing broadcasting as a career. Letters of reference. Resume. Possible interview.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Business Administration – Bachelor of Business Administration

Full-time or part-time. Starts in September.

www.bcit.ca/study/programs/9950bba

DESCRIPTION Program: The Business Administration BBA will provide students with opportunities to meet the needs of business, government, and industry for highly trained managers.

ENTRANCE REQUIREMENTS BCIT Diploma in: Business Administration (Post-Diploma), Financial Management, Human Resource Management, Human Resource Management (Post-Diploma), Information Technology Management, Integrated Management Studies, International Trades and Transportation, Marketing, or Operations Management with an overall 72% grade average. 72% in Business Communications 2, Statistics, Macroeconomics, and Business Law. 300-word letter of intent which includes a summary of work experience and reasons you want to pursue the BBA.

APPLICATION DETAILS Application Processing: Full-time option: Oct. 1 until May 31. Part-time option: Ongoing throughout the year. Applications are considered for a specific intake.

Business Administration (Post-diploma) – Diploma of Technology

Full-time – 1 year. Starts in September.

www.bcit.ca/study/programs/5200dipt

DESCRIPTION Program: Designed for the college, technical institute or university graduate, this program includes management accounting, economics, marketing, law, human resource management, labour relations, and business systems computer software applications. Provides an introduction to current business practice, preparing students with a disciplined and professional approach to management.

ENTRANCE REQUIREMENTS English 12 (C+) or equivalent. College/university graduation (any major) or Diploma of Technology in Health or Engineering, or equivalent. Previous business experience is preferable but not mandatory. Applicants should be interested in supervisory and managerial positions or in operating their own businesses.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Business Management Studies, Associate Certificate

Full-time – 8 months. Starts in January, May and September

DESCRIPTION Program: This is a special preparatory program for international students. It is designed to provide second-language students with general business skills and credits towards future BCIT studies in business diploma programs. Students acquire English-language training in conjunction with skills in effective public speaking, management, marketing, organizational behaviour, technical communication, accounting, business mathematics, computing and economics.

ENTRANCE REQUIREMENTS High-school graduation. TOEFL score of 513+ (paper) or 183+ (computer). Valid study permit and passport. Medical insurance.

APPLICATION DETAILS Contact the International Student Centre at infobcit@bcit.ca or 604-432-8816.

Design Essentials – Management Certificate

Full-time – 1 year.

www.bcit.ca/study/programs/6190mcert

DESCRIPTION Program: BCIT partners with the Emily Carr Institute of Art and Design to offer qualifying students a foundation in design, desktop publishing and web software skills. Careers: Design Essentials is beneficial to budding designers, design-department managers, graphic artists, commercial printers, and managers in the print industry who currently buy graphic design services.

ENTRANCE REQUIREMENTS High-school graduation. Interview. Portfolio. Attendance at an information session.

APPLICATION DETAILS Application packages and information can be obtained during the required information session. See www.bcit.ca/infosessions.

Digital Animation

See *Computing and Information Technology*, page 26.

FilmFLEX – BCIT/Industry Partnership Certificate

27 hours per week for 52 weeks.

www.bcit.ca/study/programs/6740ipcert

DESCRIPTION Program: Learn the basics of film production and post-production using the latest in digital technology, as well as the business aspects of the film industry. Careers: FilmFLEX is designed for those individuals who have a demonstrated interest in film, television and/or digital post-production, and who want to work in a self-directed environment.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+ or better). High-school applicants will be considered only if they have undertaken a significant body of work in the area of film, television and digital post-production during their high-school education. A demonstrated interest in film, television and/or digital post-production. Two letters of reference from a previous or current employer/teacher, and a personal reference from someone other than a family member. Basic skills in word processing and the use of spreadsheets. Interview.

Financial Management – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/585fdiplt

DESCRIPTION Program: Options in: Advanced Accounting, Corporate Finance, Financial Planning, Professional Accounting, and Taxation. No enterprise can survive without funding and financial control. In modern business, the techniques of financial management, financial planning, budget preparation and financial control have become important management tools. Careers: Financial accounting, cost accounting, internal audit and budget preparation, banking, venture capital, international finance, providing advice and guidance related to taxation, investments, estate and retirement planning.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Math 11 (C+). Letter of intent. Include any relevant work and/or community and volunteer experience. Applicants must have inquiring and logical minds, the capacity for hard work, excellent communication skills, and the ability to work well with others.

Human Resource Management – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/625adipt

DESCRIPTION Program: Provides specialized knowledge, skills and abilities related to organizational systems and processes that focus on enhancing human behaviour in the workplace. Careers: Graduates are prepared for entrance, at a professional/technical level, in a generalist or specialist human resource management position.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Math 11 (C+). Resume. Letter of intent. Possible interview.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Enrolment is limited.

Human Resource Management (Post-diploma) – Diploma of Technology

Full-time – 9 months. Starts in September.

www.bcit.ca/study/programs/5950diplt

DESCRIPTION Program: Provides specialized knowledge, skills and abilities related to organizational systems and processes that focus upon enhancing human behaviour in the workplace. Careers: Graduates are prepared for entrance, at a professional/technical level, into either a generalist or specialist human resource management position.

ENTRANCE REQUIREMENTS English 12. College or university degree or diploma of technology. FMGT 1152 (65% or better), ECON 2200 (65% or better), HRMG 3100 (or HRMG 3105), ORGB 1100 (or ORGB 1105), BUSA 2100 (or BUSA 2005). Strong proficiency in microcomputer applications is required – provide a written explanation detailing experience with word processing and statistical analysis utilizing spreadsheet programs. Resume. Letter of intent. Possible interview.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Enrolment is limited.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Information Technology Management – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/6230diplt

DESCRIPTION Program: Students learn business fundamentals (accounting, human resources, marketing and operations), the value of information technology as a business improvement tool, and will have hands-on computer skills to solve specific business problems. **Careers:** Work in the high-tech industry (customer support, customer trainer, sales support, implementation assistant) or in traditional organizations (business analyst, end-user support, end-user training, network administrator).

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Math 11 (C+). Math 12 highly recommended. Resume. Letter of intent. Good interpersonal and teamwork skills.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Integrated Management Studies – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/6240diplt

DESCRIPTION Program: Students develop skills in business (accounting, marketing, operations and computer applications), learn to work well in culturally-diverse organizations, and develop an understanding of modern business dynamics. **Careers:** General management, human resource management, marketing, entrepreneurial ventures, information technology and accounting or finance. For many, initial work may be in a supervisory capacity, in management or in marketing with medium to large firms.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Math 11 (C+). Resume. Letter of intent. Good interpersonal and teamwork skills.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

International Trade and Transportation – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/7480diplt

DESCRIPTION Program: Provides broad training in the fundamentals of business and trade and transport. **Careers:** Work in any economic sector in which international markets play a role in the firm's success. Opportunities in marketing, finance and management, with firms such as trading houses, importers and exporters, customs brokers, freight forwarders and transportation providers.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Math 11 (C+). Resume. Letter of intent. An interview with program area staff may be required to assess oral communication skills. This interview is waived for those applicants who score 60% or higher on the B.C. English 12 Provincial Examination.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Management – Bachelor of Technology

Distance Education – students must complete within 7 years.

www.bcit.ca/study/programs/8700btech

DESCRIPTION Program: Designed for career-oriented adults working as supervisors or managers in a traditionally-structured organization or as team leaders in a team-based organization who want to develop and enhance their generic management knowledge and skills, improve their on-the-job performance, and continue to work full time while completing a management degree.

ENTRANCE REQUIREMENTS English 12 or equivalent. Diploma or equivalent. Resume. Two years current full-time employment in a management or supervisory position. Computer literacy. Diploma-level accounting course. Letter of intent. One letter of support from the applicant's employer that also identifies a workplace advisor for the applicant. Two letters of support from colleagues, clients or customers commenting on the applicant's ability to complete the degree. Interview with the program head. For information on an alternate entry model please see www.bcit.ca/study/programs/8700btech.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Marketing Management – Commercial Real Estate Option – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/630rdiplt

DESCRIPTION Program: Marketing plays a pivotal role in the identification of critical issues, strategic planning and project execution required for businesses to survive and succeed. This option focuses on commercial property sales and investment analysis skills. **Careers:** Graduates find employment as agents and in sales, mortgage brokerage, appraisal, property management, and investment analyst positions.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+) or better, Math 11 (C+) or better. Resume. Letter of intent. Two letters of reference. A personal interview with the program faculty may be required to obtain final acceptance.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Admission is not first-come, first-served; the process is competitive.

Marketing Management – Communications Direct Response Option – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/630tdiplt

DESCRIPTION Program: Internet marketing, e-commerce, and web and database marketing blended with a marketing communications specialization are the highlights of this option. **Careers:** Graduates are sought by industries that use Internet marketing, direct marketing and database marketing such as the technology sector.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+) or better, Math 11 (C+) or better. Resume. Letter of intent. Two letters of reference. A personal interview with the program faculty may be required to obtain final acceptance.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Admission is not first-come, first-served; the process is competitive.

Marketing Management – Entrepreneurship Option – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/630hdiplt

DESCRIPTION Program: The curriculum of this option follows the stages of business development from idea generation through to start-up and growth. **Careers:** Students graduate with a toolbox of skills for jobs ranging from marketing managers in high-growth companies to self-employment as entrepreneurs.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+) or better, Math 11 (C+) or better. Resume. Letter of intent. Two letters of reference. A personal interview with the program faculty may be required to obtain final acceptance.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Admission is not first-come, first-served; the process is competitive.

Marketing Management – Marketing Communications Option – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/630sdiplt

DESCRIPTION Program: Development of creative communication skills and campaign planning are the focus of this option. **Careers:** Graduates are employed in a variety of positions within advertising and public relations firms, broadcasting and publishing firms, in-house marketing and promotion operations, and production companies, as well as in high-technology and not-for-profit sectors.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+) or better, Math 11 (C+) or better. Resume. Letter of intent. Two letters of reference. A personal interview with the program faculty may be required to obtain final acceptance.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Admission is not first-come, first-served; the process is competitive.

Marketing Management – Professional Sales Option – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/630vdiplt

DESCRIPTION Program: This option emphasizes professional selling techniques such as planning, researching, promotion, merchandising and relationship-building techniques, required to present sophisticated products and services to professional buyers. **Careers:** Graduates find sales positions in manufacturing, wholesale/retail and service organizations.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+) or better, Math 11 (C+) or better. Resume. Letter of intent. Two letters of reference. A personal interview with the program faculty may be required to obtain final acceptance.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Admission is not first-come, first-served; the process is competitive.

Marketing Management – Tourism Option – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/630jdiplt

DESCRIPTION Program: This option focuses on the marketing aspects of tourism destinations, facilities, products and services. **Careers:** Graduates find employment in firms or organizations engaged in developing new tourism products and services or expanding the existing demand for services; in destination management organizations; and, in conference and event planning firms and associations.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+) or better, Math 11 (C+) or better. Resume. Letter of intent. Two letters of reference. A personal interview with the program faculty may be required to obtain final acceptance.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Admission is not first-come, first-served; the process is competitive.

New Media Design CD-ROM and Web Development

See *Computing and Information Technology*, page 27.

Office Administrator with Technology

See *Computing and Information Technology*, page 27.

Operations Management – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/6900diplt

DESCRIPTION Program: Explores the way organizations produce and distribute goods and services. Virtually every product you use comes to you because operations managers organized its production and distribution. **Careers:** Typical entry-level positions include material planner/scheduler, buyer, project coordinator, production supervisor, quality assurance technologist, shipping/receiving supervisor, systems analyst, inventory analyst, maintenance coordinator, management trainee, business analyst, warehouse supervisor, assistant plant manager, purchaser, industrial engineering technologist, product analyst, or systems troubleshooter.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Math 11 (C+). If your mathematical skills are in doubt, it is recommended that you take OPMT 0199.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Technology Management – Bachelor of Technology

Part-time/Distance Education – 3–5 years (students must complete within 7 years). Starts in January, April, and September.

www.bcit.ca/study/programs/8350btech

DESCRIPTION Program: Technologists and others learn the knowledge, skills and attitudes for their roles as supervisors and managers in technical organizations. **Careers:** Graduates assume leadership roles as supervisors and managers at the junior and mid-management levels in the high-tech sector, as well as in other industry sectors where technology plays a major role.

ENTRANCE REQUIREMENTS English 12 or equivalent. Diploma of Technology, Technical Studies or Trades Training from BCIT or equivalent institution or a related degree from a recognized post-secondary institution. Two years of relevant work experience, subject to departmental approval. Personal interview with program head. For information on an alternate entry model please see www.bcit.ca/study/programs/8350btech.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Venture Program – Associate Certificate

Full-time – 3 months.

www.bcit.ca/study/programs/7820acert

DESCRIPTION Program: This program will not teach you how to be an entrepreneur, but it will help you to launch your business and win. Improve your marketing focus, tighten your strategic plan, attract appropriate financing, overcome risk, build your resource base and develop key contacts. Ultimately, you will leave with your business plan.

ENTRANCE REQUIREMENTS A firm business concept. One year minimum of business experience and/or one year working in a related industry. Basic computer skills (intermediate level spreadsheet and word processing course). If an inventor or manufacturer, must be at the prototype stage.

APPLICATION DETAILS For information about admission and registration into this program, please contact the department at 604-412-7651.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.



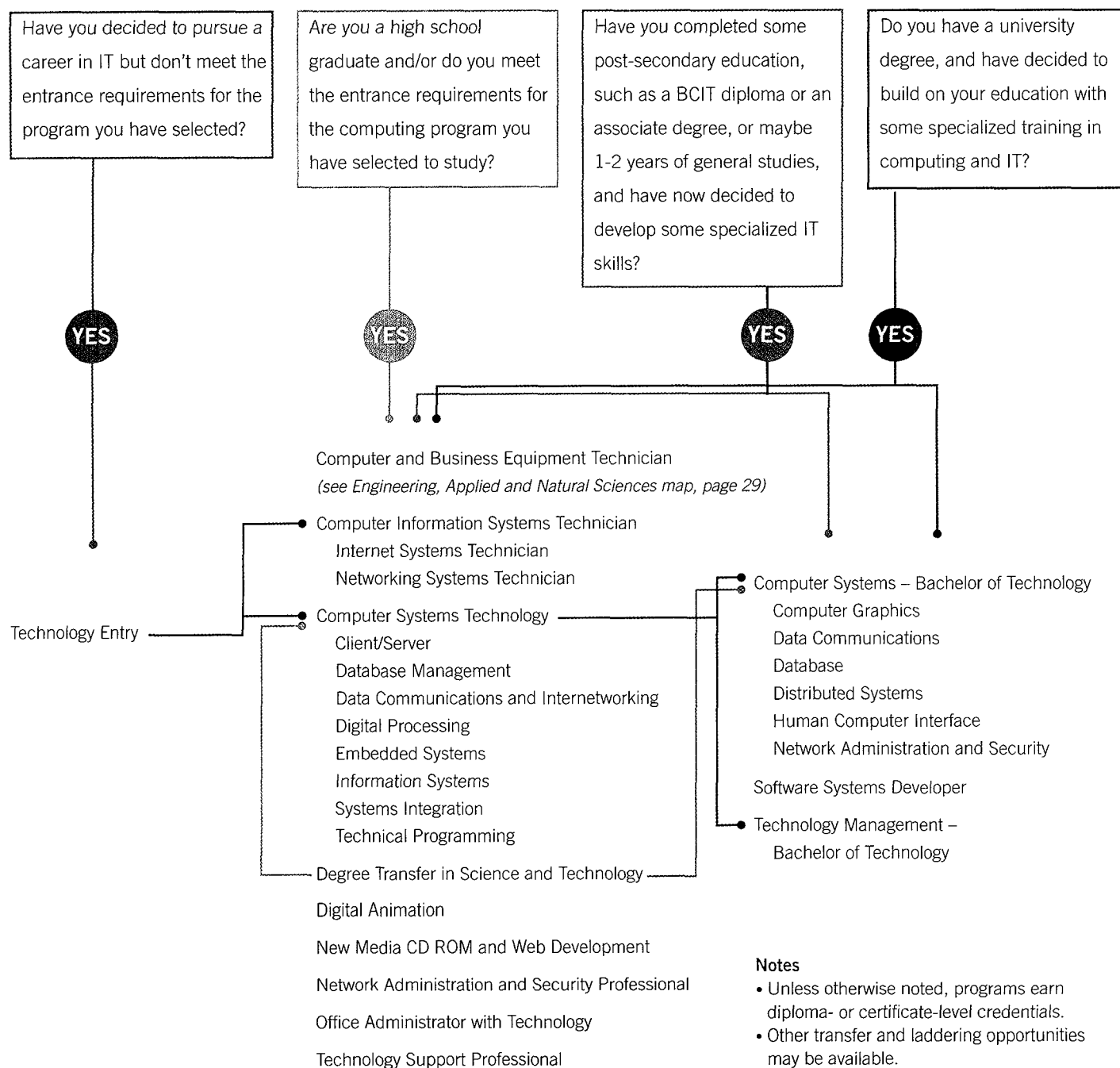
ARE YOU INNOVATIVE AND COMPUTER-SAVVY? DO YOU NEED TO BE THE FIRST TO KNOW EVERYTHING ABOUT THE LATEST TECHNOLOGY? WOULD YOU LIKE TO HELP PEOPLE SOLVE THEIR COMPUTER PROBLEMS, OR USE TECHNOLOGY TO IMPROVE BUSINESS OPERATIONS?

Computing and Information

If you're interested in how computers work, helping people solve computer problems, or using technology to improve business operations, then a computing and IT career may be a good fit for you.

With BCIT's programs you can develop skills in network design, administration, software programming and development, visual design, IT management, hardware repair, computing engineering for software or hardware, web development and applications, and user support.

Map your Path



Notes

- Unless otherwise noted, programs earn diploma- or certificate-level credentials.
- Other transfer and laddering opportunities may be available.
- Specified program prerequisites must be met regardless of previous post-secondary education.

Technology



Learn more about these programs

CAD Programming (Post-diploma)

See *Engineering, Applied and Natural Sciences*, page 31.

Computer and Business Equipment Technician – Diploma of Technical Studies

Full-time – 40 weeks. Starts in late-August.

www.bcit.ca/study/programs/1330dipts

DESCRIPTION Program: Covers modern electronic and microprocessor-controlled business equipment including fax machines, photocopiers, many types of printers, word and information processing systems, computer networks, desktop publishing systems, and other micro-processor-controlled office equipment. Careers: Install, maintain and repair business equipment.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). Math 12 recommended. Graduation from a provincially-approved Electronics Common Core program. BCIT pre-test is acceptable for English only. Completion of a Math 12 competency exam through the BCIT Mathematics department also acceptable. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Computer Information Systems Technician – Diploma of Technical Studies

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/550fdiplt

DESCRIPTION Program: Options in: Networking Systems Technician and Internet Systems Technician. Covers computer hardware, operating systems, networking and Internet technology. In the second year of the program, students choose to specialize in Internet Systems or Networking Systems. Careers: Jobs exist in every sector of business that uses both PC hardware and software components as part of its entrepreneurial activities and/or day-to-day operations.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Math 12 (C). Physics 11 is recommended. BCIT pre-test is acceptable for English and Math. Completion of a Math 12 competency exam through the BCIT Mathematics department also acceptable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Computer Systems – Bachelor of Technology

Full-time – 15 months or 2 years. Part-time (students must complete within 7 years). Starts in January, April, and September.

www.bcit.ca/study/programs/820cbtech

DESCRIPTION Program: Options in: Computer Graphics, Database, Data Communications, Distributed Systems, Human Computer Interface, Network Administration and Security, and Wireless and Mobile Applications Development. A career-enhancement degree designed to increase the depth of knowledge and practical skills of computer system technologists, and to help them widen their career opportunities or advance in their career paths.

ENTRANCE REQUIREMENTS English 12 (C+) or equivalent. BCIT Computer Systems Diploma of Technology or equivalent**. Six months of professional work experience (two years of approved work experience is required before graduation).

**Equivalence will be determined based on assessment of the student's academic background by the assistant program head or program head.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Computer Systems Technology – Diploma of Technology

Full-time – 2 years. Starts in September and January (compressed format).

www.bcit.ca/study/programs/550adiplt

DESCRIPTION Program: Options in: Client Server, Database Management, Data Communications and Internetworking, Digital Processing, Embedded Systems, Information Systems, Systems Integration, Technical Programming. Topics covered include programming in Java, C, C++, C#, software development processes, database, web and networking technologies, and other computing fundamentals. Program provides graduates with extensive job-ready IT skills. Careers: Graduates work as software developers, programmers, systems analysts, Internet application and network architects, technical support, systems integrators and quality assurance / testing consultants. There are rewarding career opportunities in software product development, IT consulting, gaming and entertainment, Internet and web development, and wireless communications in business, engineering, manufacturing, health, entertainment or education.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Principles of Math 12 (C+) or Applications of Math 12 (B). Letter of intent.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

APPLIED LEARNING EXAMPLE #2

NAME OF PROGRAM: Computer Systems Technology Diploma program

NAME OF SCHOOL: School of Computing and Academic Studies

The Computer Systems Technology Diploma program combines the foundation and theory of computing systems with hands-on training using teamwork approaches practised in industry. In the second half of the program, students are actively involved in industry-based projects that provide them with opportunities to experience software development in a real user environment. Past projects have included creating secure web-based transaction systems for a nonprofit organization; building Intranet tools for an entertainment company; and improving the firewall of a saveware company.

Digital Animation – Management Certificate

25 hours/week for 25 weeks. Expected intakes are April and September.

www.bcit.ca/study/programs/6430mcrt

DESCRIPTION Program: Technical and creative aspects as well as the main elements of design, planning and implementation are covered. Careers: Graduates have the basic skills to work as junior animators in the entertainment industry.

ENTRANCE REQUIREMENTS English-language proficiency. High-school graduation. Information session attendance. Interview with department. Portfolio.

APPLICATION DETAILS Application packages and information can be obtained during the required information session. See www.bcit.ca/infosessions for schedule.

Degree Transfer in Science and Technology

See *Access and Transfer*, page 17.

Electrical and Computer Engineering Technology

See *Engineering, Applied and Natural Sciences*, page 32.

Information Technology Management

See *Business and Media*, page 22.

Network Administration and Security Professional

– Certificate

Full-time – 10 months including a 2-month industry practicum
www.bcit.ca/study/programs/6920cert

DESCRIPTION Program: Prepares individuals to plan, manage, and secure the network infrastructure of an enterprise. The program includes knowledge and skill development in business communications and leadership as well as network administration, with an emphasis on Windows environments, Linux environments, hardware tools, networking tools, project management, and security of the network infrastructure in both environments. Careers: Graduates are well equipped to compete for entry-level and intermediate-level jobs such as network administrator, network director, network analyst, project manager, or project leader.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+ or better grade). While some direct admission from high school is possible, most candidates have several years of job experience, some in the Information Technology area.

APPLICATION DETAILS Apply through the NASP website at www.http.bcit.ca.

New Media Design CD-ROM and Web Development

– Senior Management Certificate

Full-time or part-time – 52 weeks.
www.bcit.ca/study/programs/6410smcert

DESCRIPTION Program: This hands-on program offers the basics of CD-ROM and web development. It covers the basics of design and colour theory, communicating for multimedia, and program management for new media. Software packages include Photoshop, Illustrator, Direct, After Effects, and more. Participants will produce an interactive CD-ROM and three websites for portfolio use.

ENTRANCE REQUIREMENTS Information session attendance. Entrance exam. High-school graduation. Interview.

APPLICATION DETAILS Application packages and information can be obtained during the required information session. See www.bcit.ca/infosessions for a current schedule.

Office Administrator with Technology – BCIT/Industry Partnership

Full-time – 3 months. Part-time – 12 months.
www.bcit.ca/study/programs/6989ipcert

DESCRIPTION Program: This program focuses on desktop applications such as MS Office, MS Project, and desktop publishing; website development and maintenance; and business courses, such as finances, accounting software, business communication, and customer service. Careers: Graduates will have the advanced computer and business skills required for administrative positions.

ENTRANCE REQUIREMENTS High-school graduation or equivalent. English 12 (C+ or better) or equivalent. Aptitude for working with computers in a Windows environment. Basic keyboarding skills recommended. Successful completion of selection interview process with the program coordinator.

APPLICATION DETAILS Application packages and information can be obtained from the High-Tech Professional Programs office. Call 604-412-7788, e-mail info@http.bcit.ca or visit www.http.bcit.ca.

Robotics and Automation

See *Engineering, Applied and Natural Sciences*, page 36.

Software Systems Developer – Certificate of Technology

Full-time – 30 weeks. Multiple start dates each year.
www.bcit.ca/study/programs/6997cert

DESCRIPTION Program: Students learn techniques in software development, are exposed to several industrial-strength programming languages, and apply systems development concepts to a number of application areas such as data communication and databases. Careers: Software developer, database developer, systems developer, object-oriented developer, web developer, programmer/analyst and quality assurance in a variety of industries including business, finance, government, health, information technology, telecommunications and service.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+). Completion of minimum of one year of post-secondary education. Working knowledge of DOS/Windows environments. Completion of a written pre-entry exam on logic and reasoning skills (grade of 70% or better). Selection interview with a faculty and/or staff member.

APPLICATION DETAILS Application packages and information can be obtained from the High-Tech Professional Programs office. Call 604-412-7788, e-mail info@http.bcit.ca or visit www.http.bcit.ca.

Technology Entry (TE)

See *Access and Transfer*, page 17.

Technology Management

See *Business and Media*, page 23.

Technology Support Professional – BCIT/Industry Partnership

Full-time – 40 weeks. Multiple start dates each year.
www.bcit.ca/study/programs/6985ipcert

DESCRIPTION Program: This program focuses on help desk/call centre support, network administration and troubleshooting; it combines technical and professional courses with hands-on learning. Careers: User support specialist, help desk support, user support analyst and technical support analyst in the business, finance, government, health, information technology, telecommunications, and service industries.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+). Aptitude for working with computers in a Windows environment. Completion of a written pre-entry exam on computer knowledge (grade of 75% or better). Selection interview with a faculty and/or staff member.

APPLICATION DETAILS Application packages and information can be obtained from the High-Tech Professional Programs office. Call 604-412-7788, e-mail info@http.bcit.ca or visit www.http.bcit.ca.

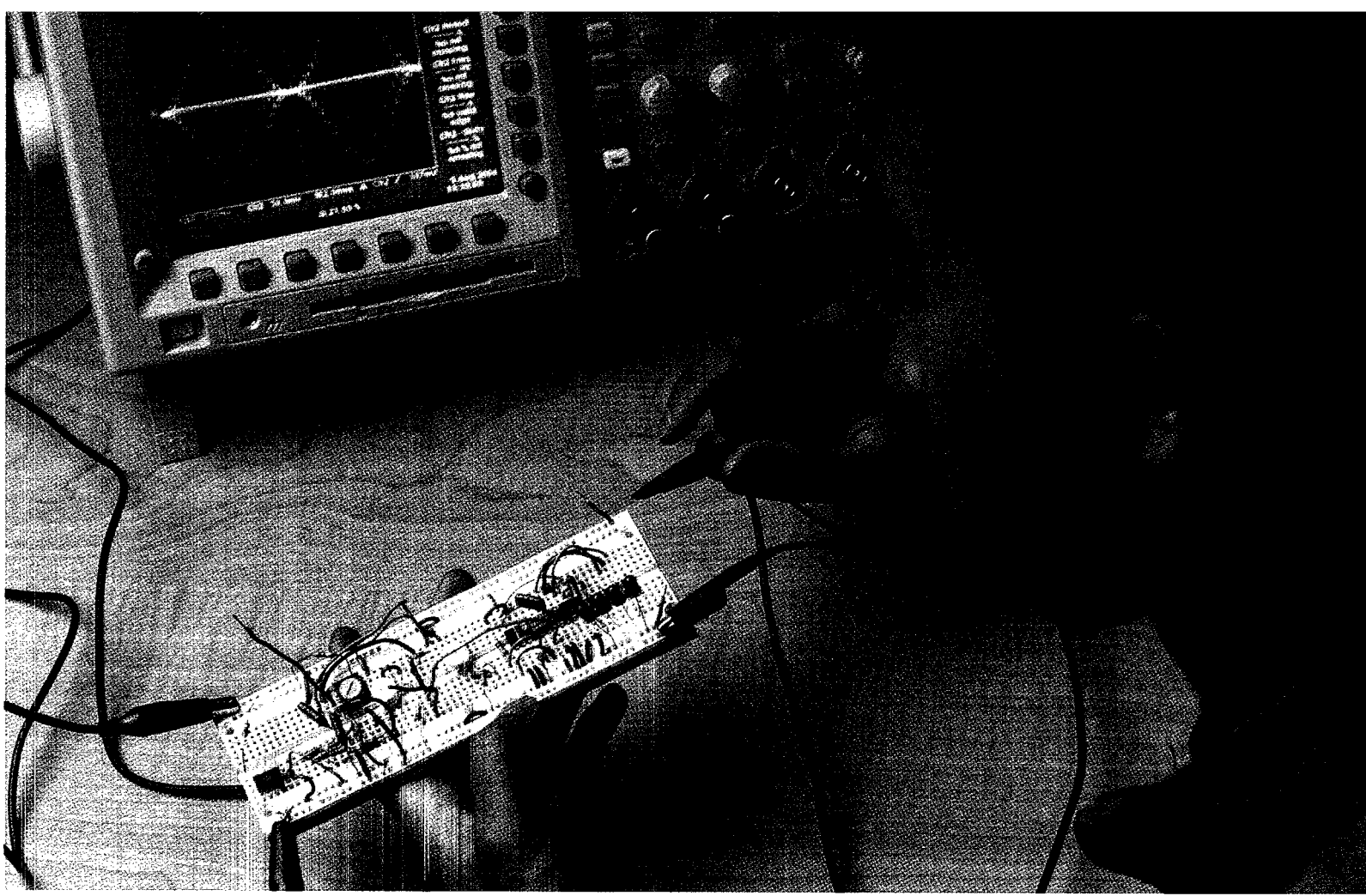
APPLIED LEARNING EXAMPLE #3

NAME OF COURSE: Website Design

NAME OF SCHOOL: School of Business

As part of the Marketing Communications program (see page 23), students are required to take Marketing 4422 – Website Design. Reinforcing what they've learned about interactive and direct marketing, students learn all phases of website design, including developing a creative strategy, creating an information and page architecture, and production of the website. Using Dreamweaver and Photoshop, students learn how to make simple graphics, use tables, FTP files to the web, create Javascript rollovers, as well as other design and HTML features. The final result – a personal website for the student.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

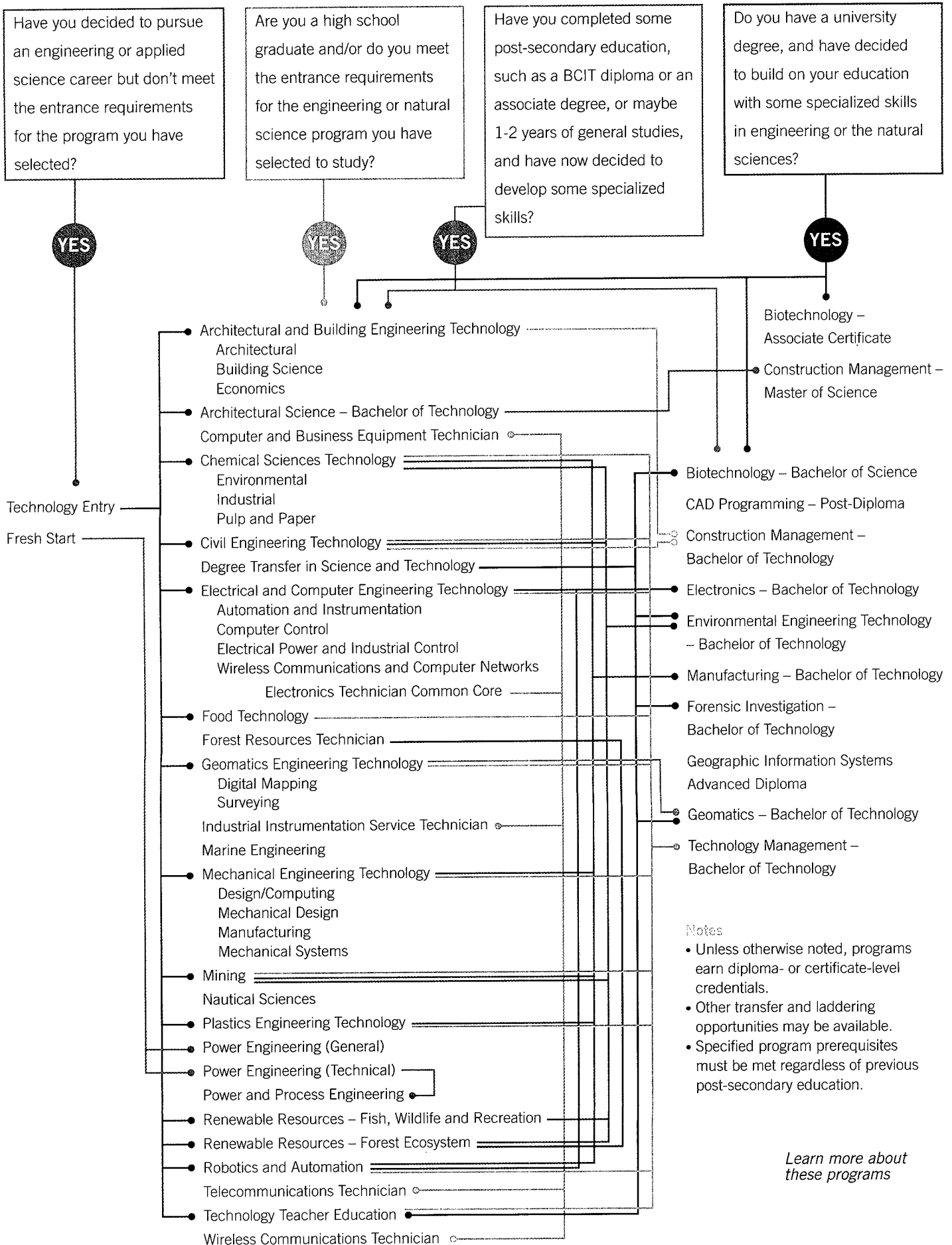


Engineering, Applied, and Natural Sciences

ARE YOU CURIOUS? INTRIGUED BY SCIENCE? DO YOU ENJOY CONDUCTING EXPERIMENTS AND SOLVING PROBLEMS? DO YOU FIND SATISFACTION IN IMPROVING CONDITIONS FOR OTHERS?

If you're interested in using mathematics and science to design, build, maintain, and manage the things we encounter in our daily lives, a career in engineering, applied and natural sciences may be right for you.

With BCIT's programs you can learn how to develop designs and drawings, collect information, use computer technology to organize and use data, install and maintain sophisticated equipment, create and present proposals, prepare estimates, and articulate problems and figure out how to solve them.



Architectural and Building Engineering Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/591cdiplt

DESCRIPTION Program: Options in: Architectural, Building Science, Economics/Construction. Prepares graduates to work in building design and construction to rigorous standards of workmanship and safety while simultaneously incorporating all the features that contribute to speed of formation, financial efficiency and user satisfaction. Careers: Senior production personnel, job captains, specification writers, estimators, project coordinators and managers, building inspectors, quantity surveyors, developers, appraisers and assessors, technologists with builders/developers, technical representatives and sales staff for building suppliers and equipment manufacturers.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Principles of Math 12 (C) or Applications of Math 12 (C+), Physics 11 (C). Resume. Handwritten 500-word letter of intent. Entrance requirements must have been completed within the past five years. Department approval may be granted to applicants who do not meet this timeframe criterion. Preference will be given to applicants who have a grade of B or better in the entrance requirements. Post-secondary academic experience and/or construction industry experience will enhance an application.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Architectural Science – Bachelor of Technology

Full-time – 4 years. Starts in September.

www.bcit.ca/study/programs/8050btech

DESCRIPTION Program: Architectural technology is a bridge between pure design and construction practice. This program covers technical, artistic and managerial skills required by architectural technologists, and explores the application of technological theory and practices in architectural planning, design and construction. Careers: Graduates find opportunities in architecture, engineering and construction.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Principles of Math (C) or Applications of Math 12 (C), Physics 11 (C). Resume. 500-word handwritten letter of intent. Requirements must have been completed within the past five years. Department approval may be granted to applicants who do not meet this timeframe criterion. Preference will be given to applicants who have a grade of B or better in the entrance requirements, post-secondary academic experience and/or construction industry experience.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

APPLIED LEARNING EXAMPLE #4

NAME OF PROJECT: Bachelor of Technology in Architectural Science, studio courses

NAME OF SCHOOL: School of Construction and the Environment

DESCRIPTION OF PROJECT: Students tackle architectural projects in a setting that is similar to an architect's office. Working under the direction of a supervising architect who may be a guest or an instructor from the program, students complete an extended simulated work experience. Projects are based on real situations to accurately reflect work scenarios.

Aviation Programs

See *Trades, Vocational and Apprenticeship*, pages 46–47, for:

Aircraft Gas Turbine Technician
Aircraft Interior Technician
Aircraft Maintenance Engineer Category E (Avionics)
Aircraft Maintenance Engineer Category M (Maintenance)
Aircraft Maintenance Engineer Category S (Structures)
Aircraft Mechanical Component Technician
Aircraft Structures Manufacturing Technician
Airline and Flight Operations

Biomedical Engineering Technology –

See *Health Sciences*, page 40.

Biotechnology – Bachelor of Science

Full-time – 4 years (2 at BCIT plus 2 at UBC). Starts in September.

www.bcit.ca/study/programs/8950bsc

DESCRIPTION Program: This program combines UBC's training in science theory with BCIT's laboratory training. The joint program will produce graduates with strong scientific and technical backgrounds as well as business and communications skills. Careers: Life sciences research, production of biological products in commercial markets, and laboratory analysis.

ENTRANCE REQUIREMENTS Thirty credits of first year UBC/equivalent university courses with a minimum 2.65 GPA including: UBC 100-level English (ENGL 112 is recommended) (6 credits), UBC BIOL 112 or BIOL 121 (or 100-level) (6 credits), UBC MATH 102 (or any one of MATH 100, 104, 120, 180 or 182) (3 credits), UBC MATH 103 (or any one of MATH 101, 105 or 121) (3 credits), UBC PHYS 100 or 101 (3 credits) and an additional 3-credit 100-level physics course or equivalent (3 credits prior to the program and 3 credits before completion of the program) (6 credits), UBC CHEM 121 or 111 (3 credits), UBC CHEM 123, CHEM 113 or any 100-level CHEM course (3 credits), or first year university transfer credits (100 or 1000 level) in Biology, Physics (with lab), Chemistry (with lab), Math and English. Entrance requirements must have been completed within the past five years. Biotechnology questionnaire. Cover letter. Resume. Interview.

APPLICATION DETAILS Application Processing: Applications are accepted and processed by UBC. Online application deadline is February 28. The selection process is competitive. See www.bcit.ca/study/programs/8950bsc for details.

Biotechnology – Associate Certificate

Full-time – 12 weeks. Starts in June.

www.bcit.ca/study/programs/500bacert

DESCRIPTION Program: Provides students with up-to-date practical training needed to explore a career in biotechnology. If you have a recent bachelor of science but lack practical training, this program can provide you with the laboratory skills required to be successful. Careers: Research technologist in biotech companies.

ENTRANCE REQUIREMENTS English 12 (B or better) for those who do not have university-level English courses. Recent BSc degree or equivalent combined education and experience. Students who do not meet these requirements should consider upgrading or completing education to meet the above requirements.

APPLICATION DETAILS Application Processing: Submit applications directly to the Program Assistant. Call 604-453-4074 for information. Applications are considered for a specific intake.

Bridge Watchman

See *Trades, Vocational and Apprenticeship*, page 49.

CAD Programming (Post-diploma) – Diploma of Technology

Full-time – 1 year. Starts in September.

www.bcit.ca/study/programs/5450diplt

DESCRIPTION Program: Develops skills to allow engineers and technologists to take full advantage of CAD technology through customization and application development. Careers: Diverse areas of engineering including drafting/designing, CAD system management, software development and system automation.

ENTRANCE REQUIREMENTS English 12 or equivalent. A national diploma of technology (or equivalent) in a relevant engineering discipline (mechanical, civil, structural, building, mining, geology, electronics, etc.) or an engineering degree. Computer literacy. Enjoy working with computers and learning new software.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Chemical Sciences Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/535cdiplt

DESCRIPTION Program: Options in: Environmental Chemistry, Industrial Chemistry, Pulp and Paper. Chemical principles form the basis for most industrial processes and products. Students develop the skills that apply to almost every major industrial and research activity in B.C., from improving industrial processes to solving environmental pollution problems. Careers: Chemist and analyst, engineering assistant or materials testing specialist, assayer or mineral processing technician, and process technologist.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (P) or Academic Math 12 (P) or Applications of Math 12 (C+), Chemistry 11. Physics 11 and Chemistry 12 are strongly recommended.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Civil Engineering Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/5410diplt

DESCRIPTION Program: Civil engineering technologists are involved in the design and construction of municipal works, residential development, industrial and commercial buildings, highways, bridges, railways, dams, power developments, canals, docks, harbours, and environmental protection and remediation works. Careers: Consulting design technologist, municipal plan checker, construction inspector and supervisor, detailer, technical sales representative, material testing technician, survey assistant and CADD operator.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Principles of Math 12 (C) or Applications of Math 12 (B), Physics 11 (C). Entrance requirements must have been completed within the past five years, or upgrading may be required. Applicants who complete their Math 12 and English 12 requirements through Adult Education must write the provincial exam.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for specific-intake. Admission to the program is competitive.

Computer and Business Equipment Technician

See *Computing and Information Technology*, page 26.

Construction Management – Bachelor of Technology

Part-time – students must complete within 7 years. Intensive – 12 months. Starts in January, April and September.

www.bcit.ca/study/programs/8800btech

DESCRIPTION Program: Provides students with structures management and leadership techniques for broader management decisions as well as on-site leadership in construction operations. Careers: Graduates are prepared for construction management positions. Most career opportunities may be directly involved with construction companies, or in development and consulting areas.

ENTRANCE REQUIREMENTS There are several different ways in which you can be accepted into the program. Please see www.bcit.ca for information on these options. For all options, English 12 (C) or equivalent, six months of relevant work experience (two years approved work experience is required before graduation) and an interview with the program head for approval of work experience are required.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Construction Management – Master of Science (conferred by the University of Bath in partnership with BCIT)

Part-time/distance education – 3 years (students have 5 years to complete). Starts in April and September.

www.bcit.ca/study/programs/8800nobcit

DESCRIPTION Program: This program offers management training for mid-career professionals in the construction industry. Skills developed through the program lead to enhanced organizational performance and profitability.

ENTRANCE REQUIREMENTS English 12 or equivalent. A relevant undergraduate degree with one to two years of related management experience. Opportunities also exist for others to be considered based on academic achievements, professional standing and significant related experience, see www.bcit.ca/study/programs/8800nobcit for details.

APPLICATION DETAILS Application Processing: Application packages are available from, and should to be submitted to, the Program Administrator at BCIT for initial review. Call 604-432-8556 for information.

Degree Transfer in Science and Technology

See *Access and Transfer*, page 17.

Information is subject to change. Please see www.bcit.ca for BCIT's current information.

Electrical and Computer Engineering Technology – Diploma of Technology

Full-time – 2 years. Starts in September and February.

www.bcit.ca/study/programs/548ddiplt

DESCRIPTION Program: Options in: Automation and Instrumentation, Computer Control Technology, Electrical Power and Industrial Control, Wireless Communications and Computer Networks. Learn to write software (for a personal computer, microcontroller and PIC) and design electronic circuitry to sense and control events. In the electronics industry, the combination of good programming and electronic circuit design skills is highly desirable, especially within the large number of companies involved in the design and development of control and data acquisition products. **Careers:** Work in design, development, production, technical sales and support, installation and maintenance, as well as electrical power and control system design in a variety of areas and industries.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C) or better, Principles of Math 12 (C+) or Academic Math 12 (C+). Physics 11 (C+) or Physics 12 (P). Assessment testing for math and physics is available by referral from Student Information and Enrolment Services. Chemistry 11 (C) is desirable for Automation and Instrumentation. It is recommended that the entrance requirements be no more than three years old. Applicants with minimum entrance requirements achieved more than five years ago are required to upgrade in math and physics. Applicants who do not meet this requirement, but who have a post-secondary education in math, physics and English, will be evaluated on an individual basis.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Electronics – Bachelor of Technology

Part-time – students must complete within seven years. Starts in January, April, and September.

www.bcit.ca/study/programs/8900btech

DESCRIPTION Program: Designed for electronics technologists (or equivalent), the program prepares graduates for engineering level roles in either the automation or telecommunication related fields. You will develop a thorough understanding of topics which include wired and wireless communications systems, feedback-control systems, computer networking, signal processing, modelling, and electromagnetism. **Careers:** Graduates have the knowledge and skills to work with and design electrical, computer, automation and communication systems.

ENTRANCE REQUIREMENTS English 12 or equivalent. A BCIT diploma in Electrical and Computer Engineering Technology, or a diploma from any nationally-accredited program in a related engineering technology discipline, with a minimum course average of 65%. Alternatively, an equivalent level of education at the post-secondary level and registration (or qualifying to register) as an Applied Science Technologist with ASTTBC will be considered. A minimum of six months of relevant work experience prior to admission and a minimum of two years (which includes the six months mentioned earlier) prior to graduation. Interview with program head.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Electronics Technician Common Core – Certificate of Technical Studies

Full-time – 30 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1800fcerts

DESCRIPTION Program: Provides the skills to install, maintain and repair electronic circuits and equipment. Through experiments, students will learn the correct use of tools, test equipment, troubleshooting procedures and soldering techniques. **Careers:** Graduates may progress into one of the specialty technician programs at BCIT (AME Category E, Computer and Business Equipment, Industrial Instrumentation, Telecommunications, Wireless Communications), transfer to another college that offers specialty options, or enter the electronics industry at an entry-level position such as installer, assembler, or quality control technician.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C), Math 12 recommended. BCIT pre-test is acceptable for English only. Completion of a Math 12 competency exam through the BCIT Mathematics department is also acceptable. Good hand/eye coordination and good colour vision.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Environmental Engineering Technology – Bachelor of Technology

Part-time – students must complete within 7 years. Intensive – 12 months. Starts in January, April, and September.

www.bcit.ca/study/programs/8000btech

DESCRIPTION Program: Provides engineering and science graduates with additional skills and knowledge to work on environmental assignments such as site remediation, site audits, waste treatment facilities, wastewater management, hydrogeology, residuals management, solid waste management, industrial air pollution, and recycling projects. **Careers:** Graduates are prepared to function as members of multi-disciplinary teams addressing the environmental challenges faced by industry.

ENTRANCE REQUIREMENTS English 12 or equivalent. A recognized diploma of technology in an engineering or science discipline or a related degree in engineering or science. Six months of relevant work experience prior to admission and a minimum of two years (which includes the six months mentioned earlier) prior to graduation. Recommended: computer literacy and access to a PC with Internet access.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Environmental Health

See *Health Sciences*, page 41.

First Mate, Intermediate Voyage

See *Trades, Vocational and Apprenticeship*, page 51.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Food Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/500adip1t

DESCRIPTION Program: Provides students with practical, hands-on skills in food processing, quality control, food microbiology and food analysis. Careers: Graduates work in all sizes of food processing companies. The food technologist focuses on food safety; most graduates work in quality control.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (P) or Academic Math 12 (P) or Applications of Math 12 (C+), Chemistry 11. Entrance requirements must have been completed within the past five years.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Forensic Investigation – Bachelor of Technology

Part-time – students must complete within 7 years. Starts in January, April, and September.

www.bcit.ca/study/programs/845cbtech

DESCRIPTION Program: Options in: Computer Crime, Economic Crime, Forensic Science. This degree will enhance the theoretical knowledge base and investigative skills to work in the specialized and diverse fields of forensic investigation. You'll learn scientific principles, procedures, technologies and the legal ramifications of an investigator's work. Careers: Graduates may work in a range of investigative and crime prevention positions, depending on academic background and work experience.

ENTRANCE REQUIREMENTS Two-year diploma or associate degree in a relevant discipline from a recognized post-secondary institution, or a bachelor's degree in a relevant discipline. Prior Learning Assessment evaluation may be available. Minimum of six months work experience in a relevant discipline completed prior to entry and a total of two years experience before completion of the program. Completion of selected pre-admission bridging courses (if required). Criminal background check and personal interview with the program head.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Forest Resources Technician – Certificate of Technology

Full-time – 1 year. Starts in September.

www.bcit.ca/study/programs/7370cert

DESCRIPTION Program: Learn how to conduct field work in the forest industry. Course topics include ecology, silviculture, communications, engineering, inventory sampling, photo interpretation and forest health. Careers: Graduates find work in forest inventory, silviculture, engineering, forest protection or watershed restoration with woodlots, forest companies, consulting firms or not-for-profit organizations.

ENTRANCE REQUIREMENTS Principles of Math 10 (C+) or Applications of Math 10 (C+), minimum Grade 10 in English or equivalent based on Prior Learning Assessment or satisfactory performance in a pre-entry exam. Preference given to applicants with high-school graduation, credentials beyond the Grade 10 level, BCIT Technology Entry, or documented work experience.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Geographic Information Systems – Advanced Diploma

Full-time – 1 year. Part-time – 2–4 years. Starts in September.

www.bcit.ca/study/programs/9100fadvdip

DESCRIPTION Program: Used to manage and utilize geographic data, geographic information systems (GIS) technology is an essential tool in forest management, urban planning, engineering, municipal management, business, and environmental studies. Careers: Graduates find work developing GIS databases, using GIS to analyse data and predict the result of planned changes, managing GIS projects, planning the acquisition of GIS technology, developing GIS custom systems and training GIS users.

ENTRANCE REQUIREMENTS English 12. Diploma of Technology or degree in a related field, or, an associate degree or the equivalent through two years of university studies including at least three credits in each of Geography, Mathematics, and Computer Science. For more information on this entry option please see www.bcit.ca/study/programs/9100fadvdip. Good communication, teamwork and technical problem-solving skills. Fundamental computer literacy and computer programming skills. Resume. Letter of intent. Students whose native language is not English and who have completed their degree/diploma at a post-secondary institution where English was not the language of instruction are required to satisfactorily complete a BCIT Communications department English-language competency test (COMM 0014).

APPLICATION DETAILS Application Processing: Full-time – Oct. 1 to March 31. Part-time – Ongoing throughout the year. Applications are considered for a specific intake.

Geomatics Engineering Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/749adip1t

DESCRIPTION Program: Options in: Digital Mapping, Surveying. Surveying and photogrammetry are essential to many phases of industrial and business development including construction, natural resource exploration and development, and mapping. Learn sophisticated surveying techniques using electronic devices and computers so that shape, size and location of objects or land masses can be determined with precision and speed. Careers: Surveying firms, engineer consultation, oil and gas industry, government mapping, highway, planning and engineering departments, and utility companies.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (P) or Applications of Math 12 (C+), Physics 11 or Chemistry 11 or Earth Sciences 11. Preference given to students achieving a grade of C or better. Applicants who have completed Earth Science 11 and Geology 12 are eligible to apply for course credit in BCIT course SURV 2263.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Geomatics, Geographic Information Systems Option – Bachelor of Technology

Part-time – students must complete within 7 years. Starts in January, April, and September. Accelerated – 12 months. Courses start in September.

www.bcit.ca/study/programs/855bbtech

DESCRIPTION Program: This program will appeal to graduates from many areas – for example, Surveying and Mapping, Forestry, Civil, Environmental, and Mining – who wish to learn how to integrate GIS technology in their profession. **Careers:** Graduates work in private industry, consulting companies or government agencies developing GIS databases, using GIS to analyse data and predict the result of planned changes, and managing GIS projects.

ENTRANCE REQUIREMENTS English 12 or equivalent. A recognized diploma of technology, or equivalent, in an engineering or science discipline or related field. Or, a degree in Engineering, Science, Applied Science or related field. Or, an associate degree or the equivalent through two years of university studies including at least three credits in each of Geography, Mathematics, and Computer Science. For more information on this entry option please see www.bcit.ca/study/programs/855bbtech. Six months of relevant work experience (two years of approved work experience is required before graduation). Students whose native language is not English and who have completed their degree/diploma at a post-secondary institution where English was not the language of instruction are required to satisfactorily complete a BCIT Communications department English-language competency test (COMM 0014). Interview with program head.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Geomatics, Surveying and Mapping Option – Bachelor of Technology

Full-time – 2 years.

www.bcit.ca/study/programs/855abtech

DESCRIPTION Program: With continual changes in spatial data capture and management, this degree provides excellent opportunities for career enhancement and professional growth. It's an ideal program for graduate Geomatics Engineering technologists who wish to pursue professional accreditation as Land Surveyors or develop their careers in other areas of Geomatics such as mapping or hydrography. **Careers:** Graduates may work as land surveyors and technical experts in the areas of mapping or hydrography.

ENTRANCE REQUIREMENTS English 12 or equivalent. A recognized diploma in Geomatics or a related field, or a degree in Engineering, Science, Applied Science or a related field. Six months of relevant work experience (two years of approved work experience is required before graduation). Students whose native language is not English and who have completed their degree/diploma at a post-secondary institution where English was not the language of instruction are required to satisfactorily complete a BCIT Communications department English-language competency test (COMM 0014). Interview with program head.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Industrial Instrumentation Service Technician

See *Trades, Vocational and Apprenticeship*, page 52.

Manufacturing – Bachelor of Technology

Part-time – 3-5 years (students must complete within 7 years). Starts in January, April, and September.

www.bcit.ca/study/programs/8600btech

DESCRIPTION Program: A career-enhancement degree program to provide graduate engineers and technologists with the skills and knowledge for the use of advanced technology in manufacturing.

ENTRANCE REQUIREMENTS English 12 or equivalent. Diploma in a manufacturing-related technology such as Plastics Engineering, Robotics and Automation or Mechanical Engineering Technology or the equivalent level of formal training/education at the post-secondary level. At least six months of appropriate work experience. Interview.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Marine Training Programs

See *Trades, Vocational and Apprenticeship*, page 54-55, for:

Marine Engineering First, Second, Third, Fourth Class
Marine Engineering
Master 350 GT
Master Limited, over 60 GRT
Master, Intermediate Voyage

Mechanical Engineering Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/635fdiplt

DESCRIPTION Program: Options in: Design/Computing, Mechanical Design, Mechanical Manufacturing, Mechanical Systems. This program provides training in engineering design, computer applications, computer aided design (CAD), manufacturing processes, communications, materials science and applied mathematics, in addition to selected specialty courses. **Careers:** Work in a broad range of industries and roles, including design, application engineering, technical sales, manufacturing, plant engineering, construction and inspection.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (P) or Academic Math 12 (P) or Applications of Math 12 (C+), Physics 11. Minimum grade of C preferred. Completion of related Technology Education courses a definite asset.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Mining Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/6600diplt

DESCRIPTION Program: Everyday products, buildings, vehicles, roadways, power lines, electricity, appliances, and high tech equipment that provide us with modern conveniences are built from products obtained from the mining and mineral industry. **Careers:** Engineering, geology, surveying, blasting, environmental, mineral processing or management departments at mines, or with geology crews in exploration, with engineering consulting companies, and at assay labs.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (P) or Academic Math 12 (P) or Applications of Math 12 (C+), Chemistry 11 or Physics 11. Completion of Earth Sciences 11 and Geology 12 is strongly recommended and allows applicants to apply for a BCIT course credit in MINE 1101.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Information on admissions for Bachelor of Technology programs is available at www.bcit.ca/study/programs/855bbtech

Nautical Sciences

See *Trades, Vocational and Apprenticeship*, page 56.

Plastics Engineering Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/7920dipt

DESCRIPTION Program: This program provides a solid background in the selection and application of plastic materials, the unique plastics processing technologies, as well as the design and development of new products. Receive practical, hands-on training in a modern lab and manufacturing facility utilizing the latest in production scale equipment. Careers: Work in manufacturing, product and process research and development, technical sales and marketing, product and mould design, inspection and quality control.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (P) or Academic Math 12 (P) or Applications of Math 12 (C+), Physics 11 or Chemistry 11. Completion of both Physics and Chemistry is recommended. Good communication and teamwork skills.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Power and Process Engineering – Diploma of Technical Studies

Full-time – 40 weeks. Starts in August.

www.bcit.ca/study/programs/2350dipts

DESCRIPTION Program: This program provides practical and technical knowledge and skills to those desiring advancement to the highest levels in the field of power engineering. Careers: Work as a Third Class Power Engineer and be qualified for positions of considerable responsibility as plant operators, plant maintenance technicians, sales engineers, and design technicians.

ENTRANCE REQUIREMENTS English 12 or Communications 12, a valid Fourth Class Power Engineering Certificate. Recent (within two years) successful completion of either the BCIT Power Engineering (Technical) program or the first year of a university engineering program; applicants who may have an equivalent engineering or technical education may request an individual assessment by the Power Engineering department. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Power Engineering (General) – Certificate of Trades Training

Full-time – 40 weeks. Starts in August.

www.bcit.ca/study/programs/2410ttcert

DESCRIPTION Program: Power engineers operate, maintain and manage industrial power and process plants. These plants are associated with various industries such as pulp and paper, chemical manufacturing, food processing, electrical generation, petroleum refining, institutional mechanical systems, and others. Careers: Work in hospitals, chemical plants, oil refineries, breweries, pulp and paper plants, sawmills, schools and institutions as Fourth Class Power Engineer plant operators and maintenance technicians.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any Math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable for English and Math. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Power Engineering (Technical) – Certificate of Technical Studies

Full-time – 40 weeks. Starts in August.

www.bcit.ca/study/programs/2400certts

DESCRIPTION Program: Power engineers operate, maintain and manage industrial power and process plants. These plants are associated with various industries such as pulp and paper, chemical manufacturing, food processing, electrical generation, petroleum refining, institutional mechanical systems and others. Careers: Work in hospitals, chemical plants, oil refineries, breweries, pulp and paper plants, sawmills, schools and institutions as a Fourth Class Power Engineer plant operator or continue with Power and Process Engineering program.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 12, Physics 11. BCIT pre-test is acceptable for English, Math and Physics. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Renewable Resources – Fish, Wildlife and Recreation – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/7200dipt

DESCRIPTION Program: Manage fish, wildlife and wild land recreation and examine habitat ecology, environmental inventory techniques and environmental law with respect to these resources. Careers: Graduates may work in both government agencies (local, regional, provincial and federal) and in the private sector, primarily with environmental consultants.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Math 11 (C+) or Principles of Math 11 (C) or Applications of Math 11 (C+), two science courses at Grade 11 or 12 level with a C or better from the following: Biology, Chemistry, Physics, or Applied Physics, Earth Science, Geology, recognized Resource Science 12, Geography or Forestry. At least one science must be Physics, Chemistry or Biology. Biology and Chemistry are preferred. Resume. Letter of intent, preferably hand-written.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Renewable Resources – Forest Ecosystem – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/7280dipt

DESCRIPTION Program: Learn about forest management, botany, ecology and soils; photo interpretation and mapping; forest health; silviculture and reforestation; protection and fire management; measurements; engineering, logging production and utilization. Careers: Graduates work in a variety of industrial, consulting, and government positions, in forest inventory, managing forest resources, ecosystem reconnaissance and mapping, forest engineering, preparing silvicultural plans and carrying out surveys, and forest health surveys.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Math 11 (C+) or Principles of Math 11 (C) or Applications of Math 11 (C+), two science courses at Grade 11 or 12 level with a C or better from the following: Biology, Chemistry, Physics, or Applied Physics, Earth Science, Geology, recognized Resource Science 12, Geography or Forestry. At least one science must be Physics, Chemistry or Biology. Resume. Letter of intent, preferably hand-written.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Robotics and Automation – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/7350diplt

DESCRIPTION Program: Provides the student with knowledge of the applications of flexible automation equipment, the various mechanical systems used and the electronics incorporated for their control. Careers: Work as a technologist writing specifications, planning for purchasing new equipment, designing, constructing and implementing control systems, and troubleshooting and maintaining automation systems.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (C+) or Academic Math 12 (C+), Physics 11 (C+) or Physics 12 (C). Preference may be given to those candidates who have completed the entrance requirements within the last five years.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Security Systems Technician

See *Trades, Vocational and Apprenticeship*, page 58.

Technology Entry

See *Access and Transfer*, page 17.

Technology Management

See *Business and Media*, page 23.

Technology Teacher Education – Diploma of Technology

Full-time – 2 years. Start in September.

www.bcit.ca/study/programs/605ddipma

DESCRIPTION Program: The Technology Teacher Education program for public school technical studies teachers is an affiliated cooperative program between BCIT and UBC. When all three program components have been completed, a Bachelor of Education degree is awarded by UBC. BEd degree holders qualify for a B.C. Professional Teaching Certificate. Careers: Opportunities are good at all grade levels as well as for high-school career preparation and secondary school apprenticeship options. Technology Teacher Education may also lead to careers in post-secondary training, industry training, or other occupations that require technical generalists.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Principles of Math 11 (C) or Academic Math 11 (C) or Applications of Math 11 (C), any Science 11 course (C). Upon request, applicants must submit an illustrated portfolio which demonstrates technical experience, accomplishments, aptitude and capability. Resume. Three confidential letters of reference, which include the referee's phone number, signed by the referee and submitted in an envelope (with the referee's signature across the sealed flap) from the following: character reference letter supporting suitability for teaching; technical reference letter supporting technical capability and experience; letter outlining experience and capability of working with young people. Preference may be given to applicants with: extensive technical experience aligned with program goals, C+ or better grades, completion of secondary or post-secondary Math, Physics, Chemistry and Biology courses, Industrial/Technology Education and/or fine arts courses, all or majority of university-transfer liberal arts and science courses, secondary or post-secondary computer applications courses in MS Office, engineering graphics, and design software.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Telecommunications Technician – Diploma of Technical Studies

Full-time – 40 weeks. Starts in September and January.

www.bcit.ca/study/programs/2750dipts

DESCRIPTION Program: This program focuses on the installation, maintenance and repair of telecommunications equipment. Careers: Work with telephone companies, telecommunications equipment manufacturers, utility companies, and in cable and satellite entertainment and communications, data communications, fibre optic and wireless communications industries, and government departments.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). Math 12 recommended. Graduation from a provincially-approved Electronics Common Core technician program. BCIT pre-test is acceptable for English only. Completion of a Math 12 competency exam through the BCIT Mathematics department also acceptable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Watchkeeping Mate Restricted (WKMR)

See *Trades, Vocational and Apprenticeship*, page 59.

Wireless Communications Technician – Diploma of Technical Studies

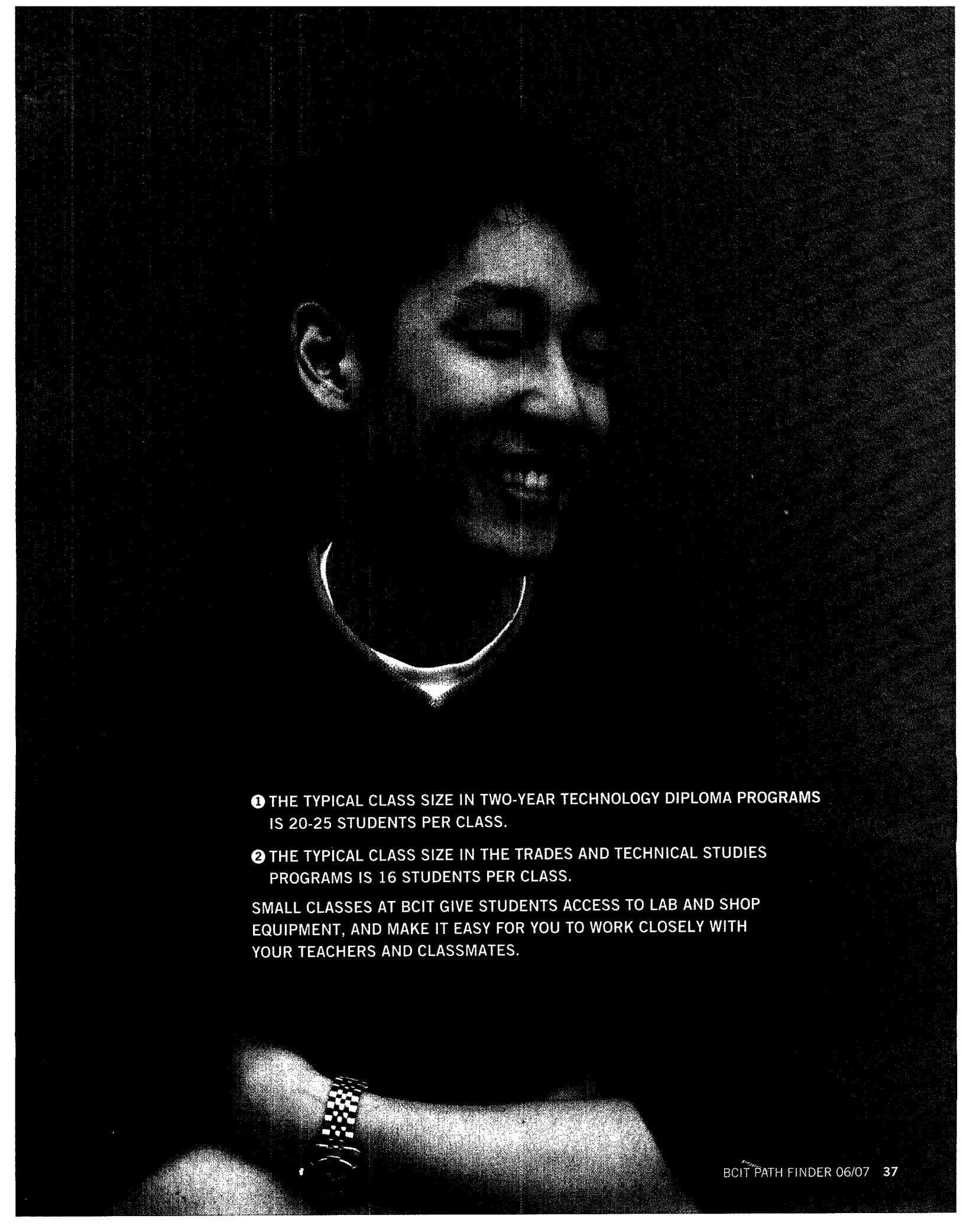
Full-time – 40 weeks. Starts in August.

www.bcit.ca/study/programs/2780dipts

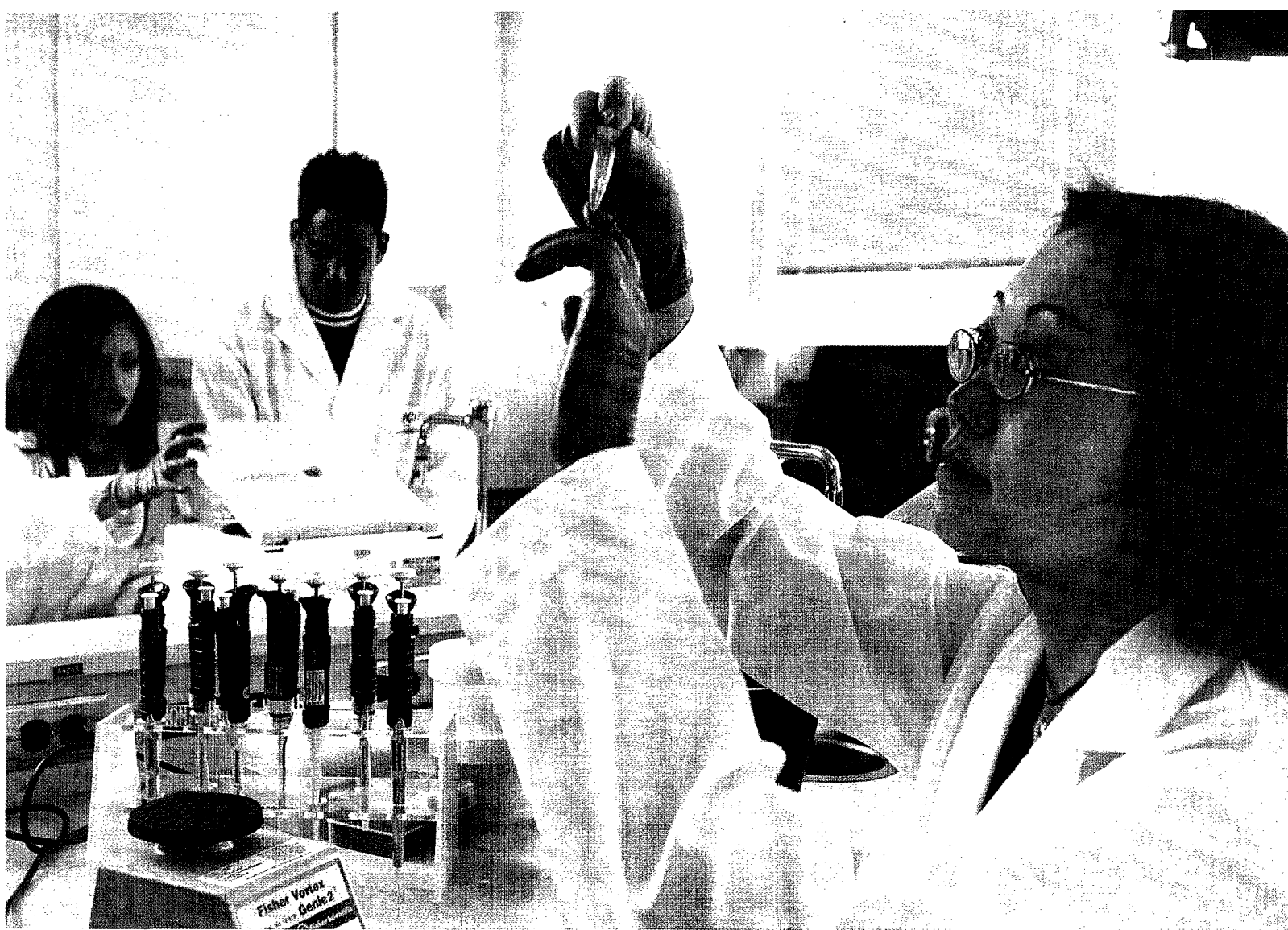
DESCRIPTION Program: Various wireless radio applications, including cellular systems, two-way trunked mobile radio systems, marine/aviation radios, and wireless LANs are covered in depth. Additional applications such as basic video, fibre optics, radar, and navigational systems are also explored. Careers: Avionics bench repair technician; air traffic control systems maintenance and repair technician; airport ground control systems technician; marine bench technician; onboard installation and repair technician; communications installation and repair technician; data transfer installation and repair technician; tracking/navigation installation and repair technician.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). Math 12 recommended. Graduation from a provincially-approved Electronics Common Core technician program. BCIT pre-test acceptable for English only. Completion of a Math 12 competency exam through the BCIT Mathematics department also acceptable.

APPLICATION DETAILS Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

- 
- ❶ THE TYPICAL CLASS SIZE IN TWO-YEAR TECHNOLOGY DIPLOMA PROGRAMS IS 20-25 STUDENTS PER CLASS.
- ❷ THE TYPICAL CLASS SIZE IN THE TRADES AND TECHNICAL STUDIES PROGRAMS IS 16 STUDENTS PER CLASS.

SMALL CLASSES AT BCIT GIVE STUDENTS ACCESS TO LAB AND SHOP EQUIPMENT, AND MAKE IT EASY FOR YOU TO WORK CLOSELY WITH YOUR TEACHERS AND CLASSMATES.



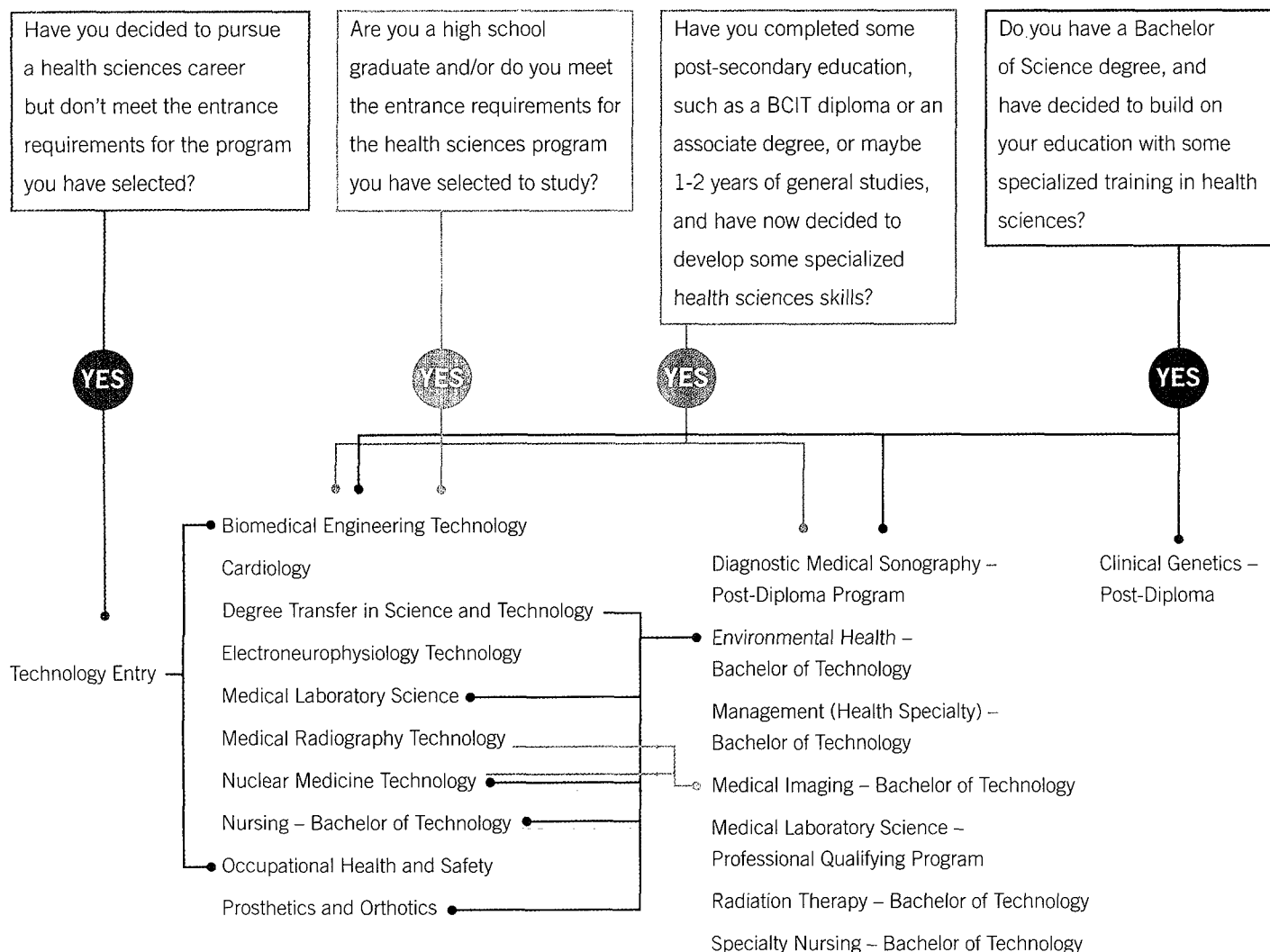
Health Sciences

DO YOU ENJOY HELPING PEOPLE AND WORKING WITH OTHERS TO IMPROVE SITUATIONS? ARE YOU INTERESTED IN UNDERSTANDING HOW THE HUMAN BODY WORKS? ARE YOU COMPASSIONATE? DO YOU WANT TO BE INVOLVED IN MAKING PEOPLE FEEL BETTER?

Health sciences is a broad field that encompasses health protection, diagnosis, treatment, therapy, and management. If you are interested in learning about the human body and its functions, and how to protect it, examine it, care for it and heal it, health sciences may be a good career for you.

At BCIT, you will learn how to develop systems that prevent diseases and injuries in our communities and workplaces. You will learn how to use advanced scientific knowledge and technology to diagnose and treat disease and injuries that do occur. You'll learn how to care for and communicate with patients and their families, use technology to conduct tests, perform analyses, administer treatment plans, monitor and manage sophisticated technical equipment, and work with others to solve problems.

Map your Path



Notes

- Unless otherwise noted, programs earn diploma- or certificate-level credentials.
- Other transfer and laddering opportunities may be available.
- Specified program prerequisites must be met regardless of previous post-secondary education.



Learn more about these programs

Biomedical Engineering Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/5050diplt

DESCRIPTION Program: This program provides a practical, hands-on understanding of the fundamental principles, operations and design of medical diagnostic and therapeutic devices (heart monitors, cardiac defibrillators, clinical laboratory analysers and X-ray equipment). Careers: Responsibilities include scheduled and corrective maintenance and safety inspection of medical equipment, participation in research and development, purchase specification, equipment evaluation, testing and commissioning, operator training, and the management of risks involving the use of biomedical equipment.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+ or better), Principles of Math 12 (B) or Academic Math 12 (B), Physics 11 (B or better), Chemistry 11 (B or better). Possible interview. Attendance at an information session organized by the program and completion of an immunization form prior to final acceptance. Satisfactory health. Computer literacy strongly recommended. Entrance requirements must have been completed within the past five years.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Due to the limited number of seats and the large number of applicants, the program accepts only the most suitable applicants.

Biotechnology

See *Engineering, Applied and Natural Sciences*, page 30.

Cardiology – Diploma of Technology

Distance Education. Full-time or part-time.

www.bcit.ca/study/programs/530adiplt

DESCRIPTION Program: Students develop skills in a variety of non-invasive diagnostic cardiology procedures and are exposed to a range of cardiac patients and a variety of biomedical equipment found within a hospital or laboratory environment. Careers: Graduates will be involved in the performance of vital cardiac testing utilizing a wide range of sophisticated medical equipment essential for providing the cardiologist with valuable diagnostic information.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (B or better)*, Biology 12 (C+), Chemistry 11 (C+), Math 12 or Applied Math 12 (C+), Physics 11 or Applied Physics 12 (C+). Prerequisites must be completed within the last five years. Basic computer keyboarding and computer skills. 500-word essay detailing interest in the program. Resume, including two personal references. Visit to a cardiology department. Work or volunteer experience is highly recommended.

*All ESL applicants must undergo a verbal assessment (TSE 50+ or equivalent) in addition to other testing in reading, writing and grammar.

APPLICATION DETAILS After you have completed the first five Level 1 theory courses, complete a Program Approval form to declare entrance into the diploma program prior to the clinical practicum. Obtain your Program Approval package by e-mailing Ina_Adams@bcit.ca or calling 604-432-8990 or 1-800-663-6542 extension 8990.

Clinical Genetics Technology (Post-diploma) – Diploma of Technology

Full-time – 13.5 months. Starts in September.

www.bcit.ca/study/programs/5670diplt

DESCRIPTION Program: Involves the analysis of the human genome by three distinct technologies: first, chromosome analysis through the use of banded metaphase chromosomes; second, fluorescence in situ hybridization (FISH) on interphase/metaphase chromosomes; and third, molecular genetic techniques involving DNA itself. Careers: The certified clinical genetics technologist may work in cytogenetic and molecular diagnostic laboratories in larger hospitals throughout Canada. Private industry and research laboratories also provide opportunities.

ENTRANCE REQUIREMENTS English 12 (B). BSc in Cell Biology. Preference given to applicants who have, as part of their BSc, courses in genetics (preferably human genetics or cytogenetics), molecular biology or molecular genetics and biochemistry. Letter of intent. Resume. Three letters of reference, including an e-mail address (if you have one).

APPLICATION DETAILS Application Processing: Oct. 1 to March 1. Applications are considered for a specific intake. Admission is competitive.

Degree Transfer in Science and Technology

See *Access and Transfer*, page 17.

Diagnostic Medical Sonography (Post-diploma) – Diploma of Technology

Full-time – 12 months. Starts in September.

www.bcit.ca/study/programs/5650diplt

DESCRIPTION Program: Diagnostic Medical Sonography (ultrasound) is a rapidly expanding medical technique. A probe (transducer) that is moved over the body to obtain images of various body structures emits high frequency sound waves. This technique provides valuable diagnostic information about the underlying anatomy and pathology that may be present. Careers: Work in hospitals, clinics, commercial areas and research. Most graduates work on a casual basis initially, moving into full-time employment.

ENTRANCE REQUIREMENTS English 12 with a B or better. All ESL applicants must undergo a verbal assessment (TSE 50+ or equivalent) in addition to other testing in reading, writing and grammar. Diploma of technology in a minimum two-year allied health program such as Radiography, Nuclear Medicine or Registered Nursing or a BSc in an appropriate health related field, and with an emphasis on human anatomy and physiology. Resume.

APPLICATION DETAILS Application Processing: Oct. 1 to beginning of May. Applications are considered for a specific intake.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Electroneurophysiology Technology – Diploma of Technology

Full-time – 2 years. Starts in September of alternate years – next intake 2006.

www.bcit.ca/study/programs/5750diplt

DESCRIPTION Program: Modern hospitals and health-care clinics require the services of trained technologists to operate sophisticated electroneuro-diagnostic (END) testing equipment and other related biomedical equipment. **Careers:** Graduates find employment in hospitals or private clinics in the following fields: electroencephalography (electrical activity of the brain), electromyography (electrical activity of the neuro-muscular system), evoked potentials (electrical activity generated by stimulation of the sensory systems) and polysomnography (electrical activity of the body during sleep).

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C+), Principles of Math 12 (C+) or Academic Math 12 (C+) or Applications of Math 12 (B), Physics 11 (C+), Chemistry 11 (C+), Biology 12 (C+). Cardio-Pulmonary Resuscitation (CPR). Interview. Medical form. Student acknowledgement of program requirements.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Environmental Health – Public Health Inspection – Bachelor of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/8500dbtech

DESCRIPTION Program: Prevent disease, promote health and improve the environment using education, consultation, inspection and monitoring techniques and, if necessary, by the enforcement of health legislation. **Careers:** Work in municipal, regional, First Nations, provincial and national health agencies, environmental and pollution control agencies, bylaw enforcement and health education as well as private consulting firms and industries such as food processing, catering and fisheries.

ENTRANCE REQUIREMENTS Applicants are required to complete either two years of post-secondary course work which includes 60 semester credits of first- and second-year courses or an appropriate credential. For detailed information on specific requirements please see: www.bcit.ca/study/programs/8500dbtech. Recommended: resume, letter of intent and three letters of reference.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. (Applicants are encouraged to apply by April 30.) Applications are considered for a specific intake.

Food Technology

See *Engineering, Applied and Natural Sciences*, page 33.

Management (Health Specialty) – Bachelor of Technology

Distance Education – students must complete within 7 years.

www.bcit.ca/study/programs/8750btech

DESCRIPTION Program: Designed for career-oriented adults who are working either as supervisors or managers in a traditionally structured organization, or as team leaders in a team-based organization, and who want to: develop and enhance their generic management knowledge and skills; improve their on-the-job performance; and, continue to work full time while completing a management degree.

ENTRANCE REQUIREMENTS English 12 or equivalent. Diploma or equivalent. Resume. Two years current full-time employment in a management or supervisory position. Computer literacy. Letter of intent. Letter of support from the applicant's employer that also identifies a workplace advisor for the applicant. Two letters of support from colleagues, clients or customers commenting on the applicant's ability to complete the degree. Interview with the program head. For information on an alternate entry model see www.bcit.ca/study/programs/8750btech.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Medical Imaging – Bachelor of Technology

Distance Education – students must complete within 7 years.

www.bcit.ca/study/programs/8300btech

DESCRIPTION Program: New developments in medical radiography, nuclear medicine and diagnostic sonography have dramatically increased the knowledge needed to function in modern imaging departments. This program addresses the need for advanced education and skills. **Careers:** Students in the program are registered medical imaging technologists who possess a diploma of technology or equivalent and are currently working in the field.

ENTRANCE REQUIREMENTS English 12 or equivalent. BCIT Diploma in Medical Radiography, or equivalent. A minimum of six months of relevant work experience prior to admission, and a minimum of two years of relevant work experience (which includes the six months noted earlier) prior to graduation.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Medical Laboratory Science – Diploma of Technology

Full-time – 2.5 years. Starts in September.

www.bcit.ca/study/programs/6580diplt

DESCRIPTION Program: The medical laboratory technologist, as a member of the health-care team, performs laboratory investigations related to the diagnosis, treatment and prevention of disease, including analysing specimens such as blood, urine, feces, sputum and tissues. **Careers:** Work primarily in hospital or private clinical laboratories. Most laboratory services are required on a 24-hour basis. As a result, the majority of medical laboratory technology positions in laboratories include some shift work (weekends, afternoons, and/or nights).

ENTRANCE REQUIREMENTS High-school graduation with: English 12 (B), Biology 12 (C+), Chemistry 12 (C+), Math 12 (C+), and Physics 11 (C+). Prerequisites must have been completed during the past five years. If longer than five years has elapsed, we may require individual assessment. Applicants who have qualifications above the Grade 12 requirement are also eligible. Competence in written and oral English. Meticulous work habits, good manual dexterity. Strong problem-solving, interpersonal and teamwork skills. Excellent physical condition. Clear skin. Ability to clearly differentiate colours. Proof of employment in any field with letter of reference or proof of volunteer experience, preferably health-care related (min. 30 hours), with letter of reference. Letter of intent. Computer literacy. Applicants must tour a medical laboratory, and complete a questionnaire regarding the tour. Possible interview. Basic First Aid certificate, which includes CPR level C. Medical form. Current immunizations. Criminal record search upon admission to the program, at the student's expense.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Medical Laboratory Science – Professional Qualifying Program – Certificate of Technology

Full-time – 1 year. Next intake September 2005.

www.bcit.ca/study/programs/6565certt

DESCRIPTION Program: This is a refresher for internationally-trained medical laboratory technologists, or Canadian-trained medical laboratory technologists who have been out of the workforce for a lengthy period. Careers: Work primarily in hospital or private clinical laboratories. Most laboratory services are required on a 24-hour basis. As a result, the majority of medical laboratory technology positions in laboratories include some shift work (weekends, afternoons, and/or nights).

ENTRANCE REQUIREMENTS English 12 (P) or equivalent. Canadian-trained technologists – A Registered Technologist (CSMLS) Medical Laboratory Science. Foreign-trained technologists – preference given to applicants who have been assessed by the Canadian Society of Medical Laboratory Science (CSMLS) and are eligible to challenge the national certification examination. Evidence of employment as a medical laboratory technologist and a satisfactory letter of reference. Competence in written and oral English. Meticulous work habits, good manual dexterity. Strong problem-solving, interpersonal and teamwork skills. Letter of intent. Computer literacy. Possible interview. Completed health form. Current immunizations. Criminal record search upon admission to the program, at the student's expense.

APPLICATION DETAILS Application Processing: June 1 until program fills. Applications are considered for a specific intake.

Medical Radiography Technology – Diploma of Technology

Full-time – 2.5 years. Starts in January.

www.bcit.ca/study/programs/6550diplt

DESCRIPTION Program: The radiography graduate is an imaging technologist who uses computer generated images to aid in making medical diagnoses. A digital image (X-ray) may be a routine image of the chest or a broken finger or it may form part of the sophisticated examinations used in the detection of heart, blood vessel or brain abnormalities. Careers: Currently, there is a high demand for BCIT radiography graduates with employment opportunities in hospitals and private clinics.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (B) or six credits of first-year English from UBC, Principles of Math 12 (B) or Academic Math 12 (B) or Applications of Math 12 (B), Physics 11 (B), Physics 12 (B), Biology 12 (B). Entrance requirements must have been completed during the past five years. Competent in written and oral English. Computer literacy. Excellent physical fitness and mental acuity. Minimum 40 hours of volunteer work in a patient related environment. Basic Life Support (Level C). Medical examination. Current immunizations. Interview. Two-day hospital orientation.

APPLICATION DETAILS Application Processing: Jan. 1 until program fills. Applications are considered for a specific intake.

Nuclear Medicine Technology – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/6700diplt

DESCRIPTION Program: Nuclear medicine is the application of radioactive materials to the diagnosis and management of disease in humans. Careers: Work primarily in the nuclear medicine departments of hospitals. In addition to performing a variety of tests on patients, the technologist may also perform lab tests on patient samples, prepare radiopharmaceuticals for injection into patients, record test results, receive, handle, record, store and measure radioactive materials and perform quality control procedures on a variety of instrumentation and imaging devices.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (B), Principles of Math 12 (C+) or Academic Math 12 (C+), Chemistry 12 (C+), Physics 11 (C+), Biology 12 (C+). Physics 12 strongly recommended. Entrance requirements should have been completed during the past five years. Excellent communication and interpersonal skills. Medical form. Current immunization. CPR Level C. Criminal record search. Signed consent form for full participation in labs.

APPLICATION DETAILS Application Processing: Oct. 1 to April 30. Applications are considered for a specific intake.

Nursing – Bachelor of Technology

Full-time – 3.5 years. Starts in mid-August and January.

www.bcit.ca/study/programs/8850btech

DESCRIPTION Program: This degree program is approved by the Registered Nursing Association of British Columbia. Registered Nurses (RNs) work with other health-care professionals in hospitals and community health settings to help people manage their health. The Nursing program focuses on acute care in hospitals and the community. Careers: Hospitals and community health settings employ RNs. Successful completion of the Nursing program provides graduates with the knowledge, skills and attitudes necessary to work in a variety of health-care settings.

ENTRANCE REQUIREMENTS High-school graduation or GED or BTSD Level 4 with: English 12 (B or better), or three credits of a university-transfer English composition course with a pass or better. Fluency in written and oral English. Chemistry 11 (C+ or better). Principles of Math 11 (C+) or Principles of Math 12 (C) or Academic Math 11 (C+) or Applications of Math 12 (C+). Biology 12 (C+ or better), or BCIT course BHSC 0100 (C+ or better), or BHSC 2217 (C+ or better – Distance Ed). Applicants who have not completed their Biology 12 (C+) or acceptable equivalent within the past five years but have Biology courses at the post-secondary level will be assessed on an individual basis. Resume. Work experience or minimum 30 hours of health-related volunteer work – confidential letter of reference required. Current immunizations. CPR (Level C or Basic Rescuer). Satisfactory health. Word processing, computer and research skills. A letter of intent and/or an English test may be required of short-listed applicants. Attendance at an applicant group meeting. Possible interview.

APPLICATION DETAILS Application Processing: August start date: Oct. 1 to Jan. 31. January start date: June 1 to Aug. 31. Applications are considered for a specific intake. The selection process is competitive; the profile of a successful applicant normally includes the existing prerequisites and a minimum of 30 credits of post-secondary course work.

Occupational Health and Safety – Diploma of Technology

Full-time – 2 years. Starts in September.

www.bcit.ca/study/programs/6850diplt

DESCRIPTION Program: Gain the knowledge and leadership to develop programs in industry that will assist in conserving life, health, and property; improve productivity by implementing loss control programs in consultation with company and labour officials; identify health and safety hazards in the workplace and advise corrective action. **Careers:** Work in industry, government, and regulatory agencies where the health and safety of workers is of concern. Many graduates also work as consultants.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Principles of Math 12 (P) or Academic Math 12 (P) or Applications of Math 12 (C+), Chemistry 11, Physics 11. Resume. Interview. Preference given to applicants who have completed the entrance requirements within five years prior to application. Familiarity with the use of personal computers strongly recommended.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake.

Prosthetics and Orthotics – Diploma of Technology

Full-time – 2 years. Start in September of even-numbered years.

www.bcit.ca/study/programs/7100diplt

DESCRIPTION Program: Prosthetists and orthotists help people who have become disabled, or who were born with physical defects, by fitting them with artificial limbs or supports. The prosthetist designs, constructs and fits artificial limbs, while the orthotist designs, constructs and fits orthopedic braces and supports. **Careers:** Prosthetists and orthotists work in rehabilitation hospitals and in private practice.

ENTRANCE REQUIREMENTS High-school graduation. English 12, Math 12, Physics 11. Entrance requirements are best completed within the past five years unless skills have been utilized during work experience or further education. Good interpersonal skills, strong academic background, a mechanical aptitude, and good manual dexterity. Letter of intent. In-person interview (for short-listed applicants).

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. The selection process is competitive; BCIT accepts only the most suitable applicants into the program.

APPLIED LEARNING EXAMPLE #5

NAME OF PROJECT: Prosthetics and Orthotics Clinical Practicum

NAME OF SCHOOL: School of Health Sciences

DESCRIPTION OF PROJECT: Like students in other BCIT Health programs, students in Prosthetics and Orthotics are involved in clinical placements. However, Prosthetics and Orthotics students also work with patients right on campus, in a clinic environment. This clinical practice provides opportunities to assess patients in need of prosthetic or orthotic care, to design and fabricate suitable appliances, and to fit, adjust, and finish their products.

Radiation Therapy Technology – Bachelor of Technology

Full-time – 2.75 years. Starts in September.

www.bcit.ca/study/programs/8650btech

DESCRIPTION Program: The treatment of cancer involves three main modalities: surgery, chemotherapy (drugs) and radiation therapy. Radiation therapy may be used alone or in conjunction with surgery and chemotherapy, often curing the patient or offering increased quality of life. The Radiation Therapist (RT) is a health-care professional responsible for delivering a therapeutic dose of ionizing radiation in the treatment of malignant disease. **Careers:** Currently there is a national shortage of radiation therapists. Many provinces plan to expand the number of cancer treatment units or facilities, so demand will remain high in the future. In B.C., there are four radiation therapy departments, located in Vancouver, Surrey, Kelowna, and Victoria with a new treatment facility scheduled to open in Abbotsford in 2006.

ENTRANCE REQUIREMENTS English 12. Year one university-level academics (30 credits), including six credits each of first-year-level Math (preferably calculus-based), Physics and composition-based academic English as well as six credits of liberal studies course work with a minimum grade of 60 per cent. Either Physics 12 or post-secondary equivalent (usually PHYS 100) and six credits post-secondary physics required. Entrance requirements must have been completed during the past five years or be relevant to your current work. Basic keyboarding and computer skills. Minimum 40 hours of volunteer work in a health-care facility or previous work experience in health care. Resume. Medical form. Criminal record search. Interview and basic physics test for short-listed applicants.

APPLICATION DETAILS Application Processing: Oct. 1 to March 31. Applications are considered for a specific intake. The selection process is competitive.

Specialty Nursing – Bachelor of Technology

Distance Education.

www.bcit.ca/study/programs/810fbtech

DESCRIPTION Programs: Options in: Critical Care, Emergency, High Acuity, Neonatal, Nephrology, Occupational Health, Pediatric, Pediatric Critical Care, Perinatal, Perioperative. This is the only degree program in B.C. designed to prepare Registered Nurses for employment in specialty nursing practice. **Careers:** Learners in this program are Registered Nurses who are either seeking employment in or are employed in one of the nursing specialties listed above.

ENTRANCE REQUIREMENTS English 12 or equivalent. Proof of active, or eligibility for, practising RNABC or other provincial registration. Six months of current relevant work experience (two years approved experience is required prior to graduation). Applicants with less than six months clinical experience should include resume with clinical experiences.

APPLICATION DETAILS Application Processing: Ongoing throughout the year.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.



Trades, Vocational and Apprenticeship

DO YOU LIKE TO BUILD AND FIX THINGS? ARE YOU GOOD AT SOLVING PROBLEMS? ARE YOU CREATIVE? ARE YOU LIKELY TO TAKE SOMETHING APART TO SEE HOW IT WORKS, AND THEN PUT IT BACK TOGETHER? ARE YOU INTERESTED IN LEARNING THE LATEST IN TECHNOLOGY?

If you'd like to construct, implement, operate, maintain and fix the structures, products and systems that we depend on every day, trades may be the path for you. Tradespeople are in great demand due to the large number of people who will be retiring in the next decade, the strength of the economy, the housing boom, and the upcoming 2010 Olympic Winter Games.

In trades your work may be physical and could take place in a variety of indoor and outdoor environments. It's a great choice if you enjoy working with tools and technical instruments, are able to figure out new ways of doing things, and have a positive attitude and strong work ethic.

Map your Path

Have you decided to pursue a career in trades but don't have experience in your chosen field and/or you're not employed as an apprentice?

YES

NON-APPRENTICESHIP TRADES PROGRAMS

AVIATION

Aircraft Gas Turbine Technician
Aircraft Interior Technician
Aircraft Maintenance Engineer
Category E (Avionics)
Aircraft Maintenance Engineer
Category M (Maintenance)
Aircraft Maintenance Engineer
Category S (Structures)
Aircraft Mechanical
Component Technician
Aircraft Structures
Manufacturing Technician
Airline and Flight Operations –
Commercial Pilot

CONSTRUCTION

Automated Woodworking
Processes
Drafting

ELECTRICAL

Security Systems Technician

MARINE

Bridge Watchman
Marine Engineering
Nautical Sciences

TELECOMMUNICATIONS

Computer and Business Equipment
Telecommunications
Wireless Communications

TRANSPORTATION

Railway Conductor

Notes

- If you do not meet the entrance requirements for the program you have selected, check out the Fresh Start Trades Upgrading program on page 17.
- Other ladder and transfer opportunities may be available.

PRE-APPRENTICESHIP PROGRAMS

(ENTRY LEVEL TRADES TRAINING, OR, ELTT)

TRANSPORTATION

Automotive Mechanic ———→ Automotive Technician Apprenticeship Training
Automotive Mechanic (Toyota T-TEP) ———→ Automotive Technician Honda (AHAP) Apprentice
Automotive Mechanic (Volkswagen) ———→ Automotive Technician GM (ASEP) Apprentice
Automotive Service Technician ———→
Automotive Service Technician (Ford ASSET) ———→
Auto Collision Refinishing Technician
Auto Collision Repair Technician
Commercial Transport Mechanic (Bus and Truck) ———→ Commercial Transport Mechanic
Diesel Engine Mechanic ———→ (Bus and Truck) Apprentice
Heavy Duty Mechanic ———→ Heavy Duty Mechanic Apprentice
Inboard/Outboard Mechanic ———→ Inboard/Outboard Mechanic Apprentice
Motorcycle Mechanic ———→ Motorcycle Mechanic Apprentice
Power Equipment Mechanic

CONSTRUCTION

Boilermaking ———→ Boilermaker Apprentice
Carpentry ———→ Carpentry Apprentice
Piledriver and Bridgeworker Apprentice
Glazing Apprentice
Heat and Frost Insulator Apprentice

Ironworking ———→ Ironworking Apprentice
Joinery (Cabinetmaker) ———→ Joinery Apprentice
Piping ———→ Gasfitting Apprentice
Plumbing Apprentice
Steamfitting Apprentice
Sheet Metal ———→ Sheet Metal Apprentice
Steel Fabrication ———→ Steel Fabrication Apprentice
Welding ———→ Welding Apprentice
Level C ———→ Welding Level B ———→ Welding Level A

ELECTRICAL

Electricity and Industrial Electronics ———→ Electrical Apprentice

INDUSTRIAL INSTRUMENTATION

Industrial Instrumentation Service Technician ———→ Industrial Instrumentation Apprentice

MECHANICAL

Machinist Core ———→ Saw Fitting ———→ Circular Sawfiler ———→ Benchperson
Machinist/CNC Machinist ———→ Apprentice Apprentice Apprentice
Tool and Die Technician ———→ Machinist Apprentice
Industrial Maintenance Mechanic ———→
Millwright ———→ Millwright Apprentice
Heating, Ventilation, Air Conditioning ———→ Refrigeration Apprentice
and Refrigeration
Refrigeration Mechanic ———→



Learn more about
these programs

Aircraft Gas Turbine Technician – Certificate of Technical Studies

Full-time – 38 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1030certts

DESCRIPTION Program: Gas turbine engine technicians perform the disassembly, inspection, repair, assembly and testing of gas turbine engines in a clean shop environment with regular working hours. **Careers:** Graduates work in both aircraft and industrial gas turbine engine repair and overhaul facilities across Canada. There is also a demand for individuals trained with this skill set in the aircraft component and propeller overhaul trades.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable for English and math. The following are recommended: Technical Education 11, General Mechanics 11, or Automotive Mechanics 11. **Note:** There are federal government and/or unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Aircraft Interior Technician – Associate Certificate of Technical Studies

www.bcit.ca/study/programs/1025acerts

DESCRIPTION Program: An aircraft interior technician's primary responsibilities include the removal, disassembly, cleaning, inspection, repair and re-installation of aircraft cabin furnishings. **Careers:** Work for national and regional carriers, and large approved Aircraft Maintenance Organizations (AMOs).

ENTRANCE REQUIREMENTS High-school graduation. English 12 or equivalent. Pass the trades pre-test in math and Mechanical Reasoning. An applicant who is not a Grade 12 graduate must take additional vocabulary and reading comprehension tests. Industry may give preference to those persons with Grade 12 completion. **Note:** There are federal government and/or unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS For registration information, please contact the program coordinator, Laurie Watkins, at 604-419-3704.

Aircraft Maintenance Engineer Category E (Avionics) – Diploma of Technical Studies

Full-time – 48 weeks.

www.bcit.ca/study/programs/1065dipts

DESCRIPTION Program: Aircraft avionics technicians are responsible for the servicing, repair and modification of aircraft electronic systems and components. The job includes removing and installing components, bench testing, and troubleshooting complex electronic aircraft systems. **Careers:** Jobs are available across Canada in aviation electronic shops, helicopter operations, and large and small carriers. Other opportunities such as fixed-based airport equipment servicing are also available.

ENTRANCE REQUIREMENTS English-language proficiency. Electronics Technician Common Core program (Full-time Studies program) with a minimum of 70% in both theory and practical topics and a minimum of 95% attendance. **Note:** There are federal government and/or unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

**Specific program criteria must be fulfilled.*

Aircraft Maintenance Engineer Category M (Maintenance) – Diploma of Technical Studies

Full-time – 16 months. Starts every 2 months.

www.bcit.ca/study/programs/1010dipts

DESCRIPTION Program: Aircraft maintenance engineers (AMEs) are responsible for the release (certification) of an aeronautical product (aircraft), after maintenance or inspection. It is a responsible job that includes a variety of tasks from removing and installing components to troubleshooting complex systems. **Careers:** Work in both the Canadian and foreign aviation industry. Some graduates have gone on to become managers and owners of domestic and international aircraft maintenance establishments.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11. One of the following: General Mechanics 11 (C+), Automotive Mechanics 11 (C+), Physics 11 (P), BCIT Mechanical Aptitude Test. BCIT pre-test is acceptable for English, math and mechanical aptitude. Good colour vision and an interest in mechanics are recommended. **Note:** There are federal government and/or unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

APPLIED LEARNING EXAMPLE #6

NAME OF PROJECT: A "Virtual" Approved Maintenance Organization

NAME OF SCHOOL: School of Transportation

DESCRIPTION OF PROJECT: Students in the Aircraft Maintenance Engineering program Category M, create a virtual workplace, assigning roles, responsibilities, organizational structures and tasks, replicating the real work environment. The program uses modern management techniques, empowering students and increasing actual contact with industry.

Aircraft Maintenance Engineer Category S (Structures) – Certificate of Technical Studies

Full-time – 37 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1095certts

DESCRIPTION Program: Category S structures technicians are responsible for the assessment, planning and implementation of aircraft structural fabrication and repairs. **Careers:** Work in helicopter or light aircraft repair, airline maintenance of aircraft and component manufacturing. Some graduates have gone on to manage or own repair businesses.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 or Introduction to Math 11 or Math 11A or Aviation Trade Math. BCIT mechanical reasoning test. BCIT pre-test is acceptable for English and math. Completion of a drafting course is recommended. **Note:** There are unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Aircraft Mechanical Component Technician – Certificate of Technical Studies

Full-time – 29 weeks. Starts in September.

www.bcit.ca/study/programs/1060certts

DESCRIPTION Program: Aircraft mechanical component shop technicians are involved in the overhaul, repair, modification, inspection, testing and certification of aviation components of pneumatic, hydraulic, fuel, electrical, environmental and mechanical aircraft systems.

Careers: Work with companies that specialize in aircraft component overhaul, Approved Maintenance Organizations (AMOs) involved in the manufacture and overhaul of airframe systems, as well as major airlines.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C or better). BCIT pre-test in math and English is acceptable. Note: There are federal government and/or unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Aircraft Structures Manufacturing Technician – Associate Certificate of Technical Studies

Full-time – 16 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1090acerts

DESCRIPTION Program: This program prepares students to enter occupations related to aircraft manufacturing. **Careers:** Jobs are available at aerospace manufacturing plants throughout Canada.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 or Introduction to Math 11 or Math 11A or Aviation Trade Math. BCIT mechanical reasoning test. BCIT pre-test is acceptable for English and math. Completion of a drafting course is recommended. Note: There are federal government and/or unique industry policies and information that apply to this program, visit www.bcit.ca for details.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Airline and Flight Operations – Commercial Pilot – Diploma of Technical Studies

Full-time – 64 weeks. Starts in September.

www.bcit.ca/study/programs/1055dipts

DESCRIPTION Program: A fully-integrated program that combines the training required to qualify for a commercial pilot license (CPL) including a multi-engine IFR rating with the applied skills and knowledge base to operate an aircraft. **Careers:** Personnel retirements and increased air travel worldwide are forecasted to create strong needs for pilots with superior technical skills as well as a background in different areas of aviation such as safety management systems, WHMIS and cockpit resource management.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or BCIT English-language assessment (COMM 0015) is acceptable, Math 11 or BCIT Math Competency Test. Pass a Category One Aviation medical examination. BCIT Aviation pre-entry assessment test which includes: English, math, abstract reasoning, space relations. Interview with the director of Flight Operations and the selection committee. Note: There are unique industry policies and information that apply to this program; visit www.bcit.ca for details.

APPLICATION DETAILS Application Processing: Oct. 1 until program fills. Applications are considered for a specific intake. Admission does not happen on a first-come, first-served basis; the process is competitive.

Airport Operations

See *Business and Media*, page 20.

Auto Collision Refinishing Technician – Diploma of Trades Training

Full-time – 80 weeks including two 16-week work terms. Starts in September. Cooperative Education.

www.bcit.ca/study/programs/110attdipl

DESCRIPTION Program: Basic theory and related information, along with hands-on shop practice, enables students to become proficient in autobody refinishing. **Careers:** Training prepares students for entry-level employment in the automotive collision refinishing trade. The major employers of autobody personnel are dealerships, privately owned service shops and franchised auto collision shops.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). A valid B.C. driver's licence. Attendance at a group orientation workshop. Good physical condition, freedom from respiratory problems, and non-allergic to paint thinners. BCIT pre-test is acceptable for English and math.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first come, first-served).

Auto Collision Repair Technician – Diploma of Trades Training

Full-time – 80 weeks including two 16-week work terms. Multiple start dates each year. Cooperative Education.

www.bcit.ca/study/programs/110bttdipl

DESCRIPTION Program: Basic theory and related information, along with hands-on shop practice, enables students to become proficient in autobody repair. **Careers:** Training prepares students for entry-level jobs in the automotive collision repair trade. The major employers of autobody personnel are dealerships, privately-owned service shops, and franchised auto collision shops.

ENTRANCE REQUIREMENTS High-school graduation, English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). A valid B.C. driver's licence. Attendance at a group orientation workshop. Good physical condition, freedom from respiratory problems and non-allergic to paint thinners. BCIT pre-test is acceptable for English and math.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first come, first-served).

Automated Woodworking Processes – Associate Certificate

Full-time – 25 weeks. Intakes twice per year.

www.bcit.ca/study/programs/2055acert

DESCRIPTION Program: This program is designed to give students a thorough exposure to the practical and theoretical elements of today's high-tech woodworking industry.

ENTRANCE REQUIREMENTS English 12 or Communications 12, Math 11 (Accounting 11 not accepted). The BCIT pre-test is acceptable for English and math. Prior woodworking training (Joinery ELTT) or shop experience as well as basic computer literacy. A final determination of a student's entry into this program may be made by chief instructor interview.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Automotive Mechanic ELTT – Certificate of Trades Training

Full-time – 34 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1350ttcert

DESCRIPTION Program: Automotive mechanics repair and test motor vehicles. They disassemble, inspect and assemble engines and accessories, cooling systems, transmissions and clutches, drive lines, braking and suspension systems. Careers: Employment is found with local service stations, dealerships and chains of specialty repair shops, as well as parts person and service writer careers.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (P) or Communications 12 (P), Math 11 (C) (except Accounting). Valid B.C. driver's licence. BCIT pre-test is acceptable for English and math.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Automotive Mechanic ELTT (Toyota T-TEP) – Certificate of Trades Training

Full-time – 40 weeks. Starts in September.

www.bcit.ca/study/programs/1370ttcert

DESCRIPTION Program: Automotive mechanics repair and test motor vehicles. They disassemble, inspect and assemble engines and accessories, cooling systems, transmissions and clutches, drive lines, braking and suspension systems. Careers: Employment is found with local service stations, dealerships and chains of specialty repair shops as well as parts person and service writer careers. A typical career path involves starting as a trainee until an apprenticeship becomes available.

ENTRANCE REQUIREMENTS High-school graduation. Academic English 12 (C), Math 11 (C) (except Accounting). Valid B.C. driver's licence. BCIT pre-test is acceptable for English and math.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Automotive Mechanic ELTT (Volkswagen) – Certificate of Trades Training

Full-time – 40 weeks. Starts in September.

www.bcit.ca/study/programs/1380ttcert

DESCRIPTION Program: Pursue a career as a general repair technician or choose one of many specializations. In addition to the entry-level training, students will receive training, exposure and focus on the Volkswagen product. Careers: Employment is found with local service stations, dealerships and chains of specialty repair shops as well as parts person and service writer careers. A typical career path involves starting as a trainee until an apprenticeship becomes available.

ENTRANCE REQUIREMENTS High-school graduation. Academic English 12 (C), Math 11 (C) (except Accounting). Valid B.C. driver's licence. BCIT pre-test is acceptable for English and math.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

**Specific program criteria must be fulfilled.*

Automotive Service Technician – Diploma of Trades Training

Full-time – 2 years including 36 weeks cooperative education. Starts in the spring each year. Cooperative Education.

www.bcit.ca/study/programs/1260tt dipl

DESCRIPTION Program: This specialized training program produces skilled technicians who diagnose and repair the sophisticated systems in today's motor vehicles. It is also for those with an interest in automotive, but who aspire to management positions in the industry.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C) or Communications 12 (B), Academic Math 11 (C+). BCIT pre-test is acceptable for English and math. Valid B.C. driver's licence. Attendance at a group orientation workshop.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

APPLIED LEARNING EXAMPLE #7

NAME OF PROJECT: Automotive Service Technician Programs

NAME OF SCHOOL: School of Transportation

DESCRIPTION OF PROJECT: Students in the Automotive Service Technician programs do extensive hands-on work, using current technology (including laptops and company-specific databases and diagnostics) to analyse and repair cars. Students bring laptops right onto the shop floor.

Automotive Service Technician (Ford ASSET) – Diploma of Trades

Full-time – 2 years.

www.bcit.ca/study/programs/1270tt dipl

DESCRIPTION Program: This specialized training program produces skilled technicians who diagnose and repair the sophisticated systems in today's motor vehicles. Students also receive training on the Ford product and complete Ford-accredited courses. It is also for those with an interest in automotive, but who aspire to management positions in the industry. Careers: Because the Ford dealers employ AST students during the cooperative work terms, these students gain valuable practical experience and employers have a great opportunity to evaluate the worth of the program and the calibre of the trainees.

ENTRANCE REQUIREMENTS High-school graduation. English 12 (C), Math 11 (C+) (except Accounting). BCIT pre-test is acceptable for English and math. Valid B.C. driver's licence. Proof of dealer sponsorship. For students without sponsorship, placement may be possible and applicants must contact the ASSET coordinator for a personal interview with the department. Applicants may also be required to attend at a group information session, after all program requirements have been met, to determine suitability.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Automotive Technician – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 6 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/4800appr

DESCRIPTION Program: This program covers electrical systems, air conditioning systems, fuel systems, driveline, engine mechanical, power train, steering and suspension, brakes, options and accessories, computer operated/assisted systems, truck components and systems and body and trim.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation or equivalent. English 12, any Math 11 (C) (except Accounting). A driver's license that is acceptable for use in B.C.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Automotive Technician Acura/Honda (AHAP) – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 8 weeks each.

www.bcit.ca/study/programs/4830appr

DESCRIPTION Program: Students are guided by Honda-trained instructors and learn up-to-date service techniques using the latest Acura/Honda vehicles and components. Careers: After each classroom term, students work as a service technician in a sponsoring Acura/Honda dealership.

ENTRANCE REQUIREMENTS High-school graduation or equivalent. English 12, any Math 11 (C) (except Accounting). Valid B.C. driver's licence and transportation. Acura/Honda dealership sponsorship.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Automotive Technician GM (ASEP) – Apprenticeship Training – Diploma of Trades Training*

Full-time – 5 levels of 8 weeks.

www.bcit.ca/study/programs/4810appr

DESCRIPTION Program: Over a two-year period, students train on a rotational basis with eight weeks in the classroom and 10 weeks of hands-on, paid work experience in a General Motors (GM) dealership. Classroom instructors are trained by GM, and are in tune with the latest trends in technology. New vehicles, training components and aids are provided by GM for students to work on and learn from in a closely supervised and structured environment. Careers: After each classroom term students work as a service technician in a sponsoring GM dealership.

ENTRANCE REQUIREMENTS High-school graduation or equivalent is mandatory. English 12, any Math 11 (C) (except Accounting). A valid driver's license that is acceptable for use in B.C.. BCIT pre-test is required prior to acceptance. Students must be employed and sponsored by a GM dealer, and sign an apprenticeship contract with the Ministry of Advanced Education.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Benchperson – Apprenticeship Training – Diploma of Trades Training*

Full-time – 1 level of 4 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/3100appr

DESCRIPTION Program: The skills of a benchperson include the ability to: inspect saws to ensure they are perfectly level; maintain and align components of band saw machines; maintain the specified tooth geometry of band saws; maintain band saw benching equipment; and use power tools. Careers: Those working in the saw trades are employed in sawmills.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

ENTRANCE REQUIREMENTS Benchperson apprentices must have a Circular Sawfiling Certificate of Qualification prior to acceptance into this program. One year of technical training and one year of on-the-job training are required to achieve a Certificate of Qualification. Recommended for success: Grade 10 education or equivalent, English 10, Math 10, Science 10.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Boilermaking ELTT – Certificate of Trades Training

Full-time – 23 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1450ttcert

DESCRIPTION Program: Boilermakers possess the full range of knowledge and skills required to fit, install, assemble, erect, repair and maintain a wide variety of vessels, tanks, towers, hoists and other structures, as well as ancillary equipment and fixtures made of metals and fibreglass materials. Careers: training prepares students to work as apprentice boilermakers at pulp mills, refineries and hydro-electric projects.

ENTRANCE REQUIREMENTS Successful completion of Grade 11 education. English 11, Applications of Math 11. BCIT pre-test is acceptable for high-school requirements. Interview: contact the Boilermaker department at 604-412-7435 for an appointment. Good physical condition. Good hearing and no colour blindness.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Boilermaker – Apprenticeship Training – Diploma of Trades Training*

Full-time – 3 levels of 5 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3150appr

DESCRIPTION Program: Boilermakers assemble and repair boilers, vessels, tanks, heat exchangers and other heavy metal structures. They set up and operate brakes, rolls, shears, flame cutters and other heavy metal products and drill and install boilers according to specifications using hand and power tools.

ENTRANCE REQUIREMENTS Recommended for success: Grade 11 education or equivalent. English 11, Applications of Math 11. Department interview.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Bridge Watchman – Associate Certificate of Technical Studies

Full-time – 13 weeks.

www.bcit.ca/study/programs/2925acerts

DESCRIPTION Program: The Bridge Watchman program is intended for persons wishing to work in the marine industry. The program will provide standards for safe working procedures, and the knowledge and skills required to enable a new seaperson to prepare for certification as a bridge watchman.

ENTRANCE REQUIREMENTS English-Language proficiency. Proof of 16 years of age. Grade 10 education, completion of any math at grade 10 level. Good health and physical fitness required. A medical certificate from a Transport Canada-approved physician to verify medical requirements to the level required for certificated deck personnel. Resume. Letter of intent.

Carpentry Framing and Forming – Certificate of Trades Training

Full-time – 23 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1560ttcert

DESCRIPTION Program: Carpentry is divided into four sections: occupational skills, formwork, framing, and interior/exterior finishing. It is a multi-dimensional, physically- and intellectually-demanding trade using the latest technology. Careers: The steady upturn in the construction industry has increased employment opportunities for carpenters. Training prepares students for entry-level employment in the carpentry trade.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12 and Math 10. BCIT pre-test is acceptable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Carpentry – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 6 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3200appr

DESCRIPTION Program: A carpenter performs all work in connection with the assembly and erection of falsework and forms for concrete, wood and metal frame construction, and installs interior and exterior finishing metals for residential, commercial and industrial projects, while conforming to plans, specifications and local building codes.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation is preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Circular Sawfiler – Apprenticeship Training – Diploma of Trades Training*

Full-time – 1 level of 4 weeks.

www.bcit.ca/study/programs/4250appr

DESCRIPTION Program: Inspects saws for plumb, level and proper tension; corrects any saw plate defects; maintains and aligns components of circular saw machine centres; maintains the specified tooth geometry of circular saws; maintains circular saw benching equipment, tipping and sharpening equipment; and uses power tools and related hand tools. Careers: Those working in the saw trades are employed in sawmills.

ENTRANCE REQUIREMENTS Circular sawfiler apprentices must have a Saw Fitting Certificate of Qualification prior to acceptance into this program. One year of technical training, and one year of on-the-job training to achieve a Certificate of Qualification. Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Computer and Business Equipment Technician

See Computing and Information Technology, page 26.

**Specific program criteria must be fulfilled.*

Commercial Transport Mechanic ELTT (Truck and Bus Mechanic) – Certificate of Trades Training

Full-time – 30 weeks. Starts in September.

www.bcit.ca/study/programs/1550ttcert

DESCRIPTION Program: Commercial transport mechanics overhaul, recondition, repair and maintain highway trucks, buses, forklifts and refrigeration-equipped tractor trailers. Careers: Training prepares students for entry-level employment as commercial transport mechanics. Upon successful completion of the program, students may seek employment as apprentices.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any Math 11 (except Accounting). BCIT pre-test is acceptable for English and math. Good physical condition is desirable. Valid B.C. driver's license.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Commercial Transport – Apprenticeship Training – Diploma of Trades Training*

Full-time – 3 levels of 6 weeks and 1 level of 8 weeks.
Multiple start dates each year.

www.bcit.ca/study/programs/3250appr

DESCRIPTION Program: Students work on mechanical and electronic components of vehicles, learning vehicle systems such as fuel, brake, steering and suspension systems, transmission, emission control and exhaust systems, engines, and electrical, cooling and air conditioning and refrigeration.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation. English 12. Any Math 11 (except Accounting).

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Drafting – Certificate of Technical Studies

Full-time – 40 weeks. Starts in September.

www.bcit.ca/study/programs/170ccertts

DESCRIPTION Programs in: Architectural, Structural. This program trains you for a variety of applications in architecture, building construction, mechanical, industrial and piping configuration, civil and municipal construction, and highway design. CAD (Computer Aided Design) is an integral part of all drafting programs. Careers: Work as a drafter or surveying assistant for engineering firms, surveyors, manufacturing shops, or municipalities.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12 and Principles of Math 11 or Applications of Math 11. BCIT pre-test is acceptable. Good hand/eye coordination and technical aptitude.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Diesel Engine Mechanic ELTT – Certificate of Trades Training

Full-time – 42 weeks. Starts in September.

www.bcit.ca/study/programs/1600ttcert

DESCRIPTION Program: Diesel engine mechanics repair, maintain and rebuild diesel engines that power a wide variety of mobile and stationary machinery. Careers: Diesel engine mechanics are required wherever diesel engines are found in industry: railways, bus and truck lines, the marine industry, repair garages, logging and mining camps, and dealerships.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12. Any Math 11 (C) (except Accounting). BCIT pre-test acceptable for English and math. Good physical condition is desirable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Electrical – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 10 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3400appr

DESCRIPTION Program: Electricians install, construct, alter, repair, maintain, commission, test, service, calibrate, and operate related electrical and electronic systems in any premise, building or structure. They ensure that all electrical connections are safe and meet standards set by the electrical code.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation or equivalent. English 12 or Communications 12, Academic Math 11 (C), Physics 11. Good physical condition.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Electricity and Industrial Electronics ELTT – Certificate of Trades Training

Full-time – 40 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1750ttcert

DESCRIPTION Program: This program provides graduates with the theory and practical skills to enter the electrical trade. The electrical worker plans, assembles, installs, tests, repairs and maintains electrical equipment and systems in commercial, industrial and marine facilities. Careers: Work in the construction, mining, forestry, food production, manufacturing, grain handling, transportation, utility and service industries.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). BCIT pre-test is acceptable for English and math. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Electronics Technician Common Core

See *Engineering, Applied and Natural Sciences*, page 32.

First Mate, Intermediate Voyage – Diploma of Technical Studies

Full-time – 24 weeks.

www.bcit.ca/study/programs/2521dipts

DESCRIPTION Program: This program prepares the participant for the Transport Canada examinations which lead to the issuance of the First Mate Intermediate Voyage Certificate of Competency. Careers: Holders of the First Mate Intermediate Voyage Certificate of Competency are qualified to act in the capacity of a Second Mate on any foreign-going vessel or a First Mate on an intermediate-voyage vessel.

ENTRANCE REQUIREMENTS English-language proficiency. Grade 10 Math recommended. Watchkeeping Mate Restricted Certificate of Competency. 12 months in charge of a watch while in possession of a Watchkeeping Mate Certificate. Applicants for the final Transport Canada examination leading to the First Mate, Intermediate certification, will be required to demonstrate they meet all prerequisites for this certificate. For detailed information on the certificate requirements contact your nearest Transport Canada Marine Safety office or visit their website at www.tc.gc.ca/marine.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax: 604-985-2862

Fresh Start (Trades Upgrading Program)

See *Access and Transfer*, page 17.

Gasfitting – Apprenticeship Training – Diploma of Trades Training*

Full-time – 2 levels of 6 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3300appr

DESCRIPTION Program: A domestic/commercial gasfitter installs, tests, maintains and repairs propane and/or natural gas lines, appliances, equipment and accessories in residential and commercial premises.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation or equivalent. English 11, Algebra 12 or Trade Mathematics 11, Physics 11 or Science and Technology 11.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Glazing – Apprenticeship Training – Diploma of Trades Training*

Full-time – 3 levels of 6 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3600appr

DESCRIPTION Program: A glazier measures, handles, cuts, prepares, edges, installs, removes, repairs, replaces and seals all types of glass, mirrors and glass substitutes as well as lays out, prepares, fabricates, installs, removes, repairs, replaces and seals all architectural metal products.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation is preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Heat and Frost Insulator – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 4 weeks each. Multiple start dates each year.
www.bcit.ca/study/programs/3800appr

DESCRIPTION Program: A heat and frost insulator covers exposed surfaces of pipes, steam generators, ducts, process vats and related equipment with a variety of insulating materials.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation is preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Heating, Ventilation, Air Conditioning and Refrigeration (HVAC and R) Technician – Diploma of Trades Training

Full-time – 85 weeks including 2 co-op work terms.
One start date each year. Cooperative Education.

www.bcit.ca/study/programs/2990tttdipl

DESCRIPTION Program: The heating, ventilation, air conditioning and refrigeration (HVAC and R) technician designs, builds, maintains and repairs essential indoor comfort and cooling systems. Refrigeration equipment for supermarkets used for food processing and cold storage facilities and sports facilities such as hockey and curling rinks are also a vital part of the industry. Careers: The largest employer classifications are wholesaler and contracting firms. Other employers could be government agencies and large hotel and resort chains.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). BCIT pre-test is acceptable for English and math. Applicants must pass a BCIT Mechanical Reasoning test.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Heavy Duty Mechanic ELTT – Certificate of Trades Training

Full-time – 30 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1850ttcert

DESCRIPTION Program: Heavy duty mechanics repair and test heavy duty machines such as tractors, crawlers, loaders, graders, cranes, shovels and trucks. The work ranges from simple daily maintenance checks to servicing hydraulic systems, air brakes and winches, blades and accessories. Careers: Opportunities exist in the Lower Mainland and B.C., but graduates may have to work at an unskilled job in the industry until an apprenticeship becomes available.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any Math 11 (except Accounting). BCIT pre-test is acceptable for English and math. Good physical condition is desirable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

*Specific program criteria must be fulfilled.

Heavy Duty Mechanic – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 6 weeks each. Multiple start dates each year.
www.bcit.ca/study/programs/3650appr

DESCRIPTION Program: Heavy duty mechanics repair and test heavy duty machines such as tractors, crawlers, loaders, graders, cranes, shovels and trucks. The work ranges from simple daily maintenance checks to servicing hydraulic systems, air brakes and winches, blades and accessories.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation. English 12 or Communications 12. Any Math 11 (except Accounting).

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Inboard/Outboard Mechanic ELTT – Certificate of Trades Training

Full-time – 34 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/1900ttcert

DESCRIPTION Program: Inboard/outboard mechanics do tune-ups and electrical troubleshooting, disassemble and overhaul complete units and/or components, make steering and shift adjustments, check gauges and instruments, and may install accessories such as GPS and depth-sounders. Careers: Opportunities exist both in and out of town with dealers, marinas, fishing lodges and resorts. Apprenticeships are common.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any Math 11 (except Accounting). BCIT pre-test is acceptable for English and math. Good physical condition is desirable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Inboard/Outboard Mechanic – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 4 weeks each. Multiple start dates each year.
www.bcit.ca/study/programs/3700appr

DESCRIPTION Program: Inboard/outboard mechanics do tune-ups and electrical troubleshooting, disassemble and overhaul complete units and/or components, make steering and shift adjustments, check gauges and instruments, and may install accessories such as GPS and depth-sounders.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation. English 12, any Math 11 (except Accounting).

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Industrial Instrumentation Service Technician – Diploma of Technical Studies

Full-time – 40 weeks. Starts in September.
www.bcit.ca/study/programs/2970dipts

DESCRIPTION Program: Industrial instrumentation service technicians apply, install, repair, calibrate and tune those measurement and control instruments that are applied to industrial manufacturing processes. Students will learn computerized control, programmable logic controllers, and microprocessor instrumentation. Careers: Work in a variety of manufacturing processes such as food processing, manufacturing, oil refining, mining, and pulp and paper production.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). Math 12 recommended. Completion of a Math 12 competency exam through the BCIT Mathematics department also acceptable. BCIT pre-test is acceptable for English only. Graduation from a provincially-approved Electronics Common Core program, or Certificate of Qualification with IP seal (journey person) in the trades of Electrical or Industrial Instrumentation Mechanic; or (BCIT only) Certificate of Electricity and Industrial Electronics. Successful completion of a departmental exam on basic electrical/electronics.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Industrial Instrumentation – Apprenticeship Training – Diploma of Trades Training*

Full-time – 5 levels of 8 weeks each.

www.bcit.ca/study/programs/3750appr

DESCRIPTION Program: Industrial instrumentation mechanics install, repair, maintain, replace, calibrate and program all process monitoring and/or control instruments, including indicators, recording devices, control loops and computers. These instruments may be pneumatic, hydraulic, electronic, electrical, mechanical, nuclear, optical or chemical, and include signal transmission, telemetering and digital devices in industrial operations.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation. English 12 or Communications 12, Academic Math 11(C), Physics 11, Chemistry 11. Math 12 recommended. Good physical condition.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Industrial Maintenance Mechanic – Diploma of Trades Training

Full-time – 80 weeks including 2 co-op work terms of 16 weeks each.
Starts in September. Cooperative Education.

www.bcit.ca/study/programs/1950ttdipl

DESCRIPTION Program: Industrial maintenance mechanics are responsible for the maintenance and repair of a wide variety of industrial equipment. Duties include installation, maintenance and repair of mechanical, hydraulic, pneumatic and hybrid systems. These systems include power drives, material handling, production, power generating and distribution equipment. **Careers:** Jobs exist throughout B.C. in a variety of manufacturing plants, from the food industry to machine building and maintenance and small service shops. Explore the prospects of an apprenticeship in either the millwright or machinist trades.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level. (Accounting 11 is not acceptable.) Pre-test is acceptable for English and math. Good physical condition. An interview – granted after the academic requirements have been met.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Ironworking ELTT – Certificate of Trades Training

Full-time – 23 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/2000ttcert

DESCRIPTION Program: Structural ironworkers erect structural steel girders, plates and columns, and join them permanently to form a framework or a completed structure. Work is usually broken down into various phases with separate crews, such as the raising gang or the high tensile bolt gang. **Careers:** Training prepares students for entry-level employment in the ironworking trade. Currently, jobs exist in both the structural steel and reinforced concrete sectors of the construction industry.

ENTRANCE REQUIREMENTS Grade 10 education. English 10, Math 10. BCIT pre-test is acceptable for high-school requirements. Interview. Good physical condition. Good hearing and no colour blindness.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Ironworker – Apprenticeship Training – Diploma of Trades Training*

Full-time – 3 levels of 5 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3850appr

DESCRIPTION Program: An ironworker welds, burns, rivets, drills, fits and fabricates structural shapes and plates in the erection of structural steel for buildings and bridges. Duties include rigging, placing machinery and the detailing, placing, and tying of reinforcing steel.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation is preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Joinery (Cabinetmaker) ELTT – Certificate of Trades Training

Full-time – 25 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/2050ttcert

DESCRIPTION Program: A joiner can do more than build cabinets. A joiner may work in a variety of specialties such as cabinetmaking, furniture making, boat interiors, store fixture manufacturing, pattern making and millwork. **Careers:** Opportunities vary with the shop size, location and type of work produced. Shops range from small custom shops to large production shops.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable. Good physical condition is desirable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Joinery (Cabinetmaker) – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 6 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/4850appr

DESCRIPTION Program: By manual and CAD layout or manual and CNC/CAM machines, a joiner assembles, installs and finishes articles that are fabricated with wood, plastic and other materials, and are intended to be used as architectural woodwork, millwork and furniture.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services: Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Machinist Core ELTT – Certificate of Trades

Full-time – 33 weeks. Starts in September.

www.bcit.ca/study/programs/2170ttcert

DESCRIPTION Program: A machinist sets up and operates all machine tools such as lathes, milling machines, saws, grinding machines, drilling and boring machines, planers, precision measuring tools, hand and power tools, and the related attachments and accessories, including machining, selection, use and maintenance of cutting tools. Careers: Machinists have traditionally supported the primary industry sectors in B.C. such as forestry and mining. Machinists are also working in the manufacturing sector in B.C. to produce parts for a variety of industries including aerospace.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable for English and math. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Machinist/CNC Machinist – Diploma of Trades Training

Full-time – 99 weeks including 33 weeks of cooperative education. Starts in September. Cooperative Education.

www.bcit.ca/study/programs/1525ttcdipl

DESCRIPTION Program: This co-op program provides training in basic machining skills as well as basic CNC machining skills. Careers: Graduates seek work as apprentice machinists or entry-level workers in a shop using computer numerical control (CNC) equipment.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable for English and math. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Machinist – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 5 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3900appr

DESCRIPTION Program: Machinists operate a variety of machine tools to make products.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation or equivalent. English 12, Algebra 11 or Trade Mathematics 11, Physics 11 or Science and Technology 11.

APPLICATION DETAILS Register through BCIT Apprentice Services: Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Marine Engineer First Class – Statement of Completion

Full-time – 31 weeks.

www.bcit.ca/study/programs/2710000000

DESCRIPTION Program: Prepares students for examinations that lead to Certificates of Competency issued by Transport Canada. Careers: Prepares participants for all Transport Canada examinations for the First Class Marine Engineer Certificate of Competency, which qualifies the holder to act as a chief engineer in any ship of any power on any voyage.

ENTRANCE REQUIREMENTS These are for general information purposes only, and are not intended to replace the specific Transport Canada regulations governing prerequisites and sea service requirements, as set out in the Regulations Respecting the Examination of Marine Engineers. English-language proficiency. Marine Engineer Second Class Certificate of Competency. 18 months of sea service. Completion of: MERS 2000: Propulsion Plant Simulator Level II, MED1 3000: Marine Emergency Duties (MED) C and D, MSSM 1050: Marine Advanced First Aid Certificate, or hold a valid Marine Advanced First Aid Certificate.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Marine Engineer Second Class – Statement of Completion

Full-time – 39 weeks.

www.bcit.ca/study/programs/2720000000

DESCRIPTION Program: Prepares students for examinations that lead to Certificates of Competency issued by Transport Canada. Careers: This program prepares participants for all Transport Canada examinations leading to the Second Class Marine Engineer Certificate of Competency, which qualifies the holder to act as a second engineer in a ship of any power on any voyage, or as a Chief Engineer in a ship of moderate power on any voyage.

ENTRANCE REQUIREMENTS These are for general information purposes only, and are not intended to replace the specific Transport Canada regulations governing prerequisites and sea service requirements, as set out in the Regulations Respecting the Examination of Marine Engineers. English-language proficiency. Marine Engineer Third Class Certificate of Competency. 12 months of sea service. Completion of: MERS 2000 Propulsion Plant Simulator Level II, MED1 3000 Marine Emergency Duties (MED) C and D, MSSM 1050 Marine Advanced First Aid or hold a valid Marine Advanced First Aid Certificate.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Marine Engineer Third Class – Statement of Completion

Full-time – 32 weeks.

www.bcit.ca/study/programs/2730000000

DESCRIPTION Program: Prepares students for examinations that lead to Certificates of Competency issued by Transport Canada. Careers: Prepares students for all Transport Canada examinations leading to the Third Class Marine Engineer Certificate, which qualifies the holder to act as a watchkeeping engineer in any ship of any power on any voyage. The holder may also act as a Chief Engineer on ships sailing with limited power on certain voyages.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

ENTRANCE REQUIREMENTS These are for general information purposes only, and are not intended to replace the specific Transport Canada regulations governing prerequisites and sea service requirements, as set out in the Regulations Respecting the Examination of Marine Engineers. English-language proficiency. Marine Engineer Fourth Class Certificate of Competency. 12 months of sea service. Completion of: MERS 2000 Propulsion Plant Simulator Level I (Level II is also required for a STCW Chief Engineer Endorsement), MED1 3000 Marine Emergency Duties (MED) C and D, MSSM 1050 Marine Advanced First Aid or hold a valid Marine Advanced First Aid Certificate.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Marine Engineer Fourth Class – Statement of Completion

Full-time.

www.bcit.ca/study/programs/2740000000

DESCRIPTION Program: Prepares students for examinations that lead to Certificates of Competency issued by Transport Canada. Careers: Prepares participants for all Transport Canada examinations leading to the Fourth Class Marine Engineer Certificate of Competency, which qualifies the holder to act as a watchkeeping engineer in a ship of any power on any voyage. The examination for this grade of certificate is held in three parts in the case of a Steam or Motor Certificate, and in four parts in the case of a Combined Certificate.

ENTRANCE REQUIREMENTS These are for general information purposes only, and are not intended to replace the specific Transport Canada regulations governing prerequisites and sea service requirements, as set out in the Regulations Respecting the Examination of Marine Engineers. English-language proficiency. 36 months qualifying time, which must include six months of seetime. Completion of: MERS 1000: Propulsion Plant Simulator level I, MED1 1000: Marine Emergency Duties (MED) A-1 Basic Safety, MED1 1020: Marine Emergency Duties B-1 Survival Craft, MED1 2020: Marine Emergency Duties B-2 Marine Fire Fighting, MED1 3000: Marine Emergency Duties C and D, MSSM 1050: Marine Advanced First Aid or hold a valid Marine Advanced First Aid certificate.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Marine Engineering – Diploma of Technical Studies

Full-time – 4 years (48 months). Starts once each year.
Cooperative Education.

www.bcit.ca/study/programs/2845dipts

DESCRIPTION Program: Provides training in the operation and maintenance of the propulsion plant and other machinery systems found in all oceangoing ships. A marine engineer is responsible for the efficient operation and maintenance of the vessel's propulsion, electrical and auxiliary systems.

ENTRANCE REQUIREMENTS High-school graduation. Technical and Professional Communications 12 (P) or English 12 (P), Principles of Math 11 (C), Introductory Math 11 (C), Applications of Math (C), or approved equivalents. BCIT pre-test will meet English and math requirements. Physics 11 or Chemistry 11 is recommended. Pass, to Transport Canada standards, a medical, hearing, and eyesight test. This test must be conducted by a Transport Canada-approved doctor. Interview. Note that acceptance into the program does not constitute a guarantee by BCIT that a shipping company will provide a berth for the co-op terms. Sign a waiver.

APPLICATION DETAILS Application Processing: Oct. 1 until the program fills. Applications are considered for specific intake.

**Specific program criteria must be fulfilled.*

Master, Intermediate Voyage – Advanced Diploma

Full-time – 26 weeks.

www.bcit.ca/study/programs/9580advdip

DESCRIPTION Program: Courses in the Master Intermediate Voyage program prepare the participant for Transport Canada examinations leading to the issuance of the Master Intermediate Voyage Certificate of Competency. Careers: Holders of the Master Intermediate Voyage Certificate of Competency are qualified to act in the capacity of a First Mate on any foreign-going vessel or a Master on an Intermediate Voyage vessel.

ENTRANCE REQUIREMENTS English-language proficiency. First Mate Intermediate Voyage Certificate of Competency. 12 months sea service while holding a First Mate Intermediate Voyage Certificate of Competency. Applicants for the final Transport Canada examination leading to the Master, Intermediate certification, will be required to demonstrate they meet all prerequisites for this certificate. For detailed information on the certificate requirements contact your nearest Transport Canada Marine Safety office or visit their website at www.tc.gc.ca/marine.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Master 350GT – Statement of Completion

Full-time – 12 weeks.

www.bcit.ca/study/programs/2531000000

DESCRIPTION Program: Prepares the participant for the WKMR Certificate for Master 350GT examinations. Careers: Holders of the WKMR Certificate for Master 350GT are qualified to act as a Master of a vessel not exceeding 350 tons gross tonnage (within the Local Voyage limits), or of a tug of any size.

ENTRANCE REQUIREMENTS English-language proficiency. Watchkeeping Mate Restricted Certificate of Competency. 36 months sea service, 12 months of which must be served as an officer in charge of a watch on vessels of at least five gross tons making local or minor water voyages, while in possession of a certificate as Watchkeeping Mate Restricted. Applicants for the final Transport Canada examination leading to the Master 350 GT certification, will be required to demonstrate they meet all prerequisites for this certificate. For detailed information on the certificate requirements contact your nearest Transport Canada Marine Safety office or visit <http://www.tc.gc.ca/marine>.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Master Limited, over 60 GRT, Minor Waters – Statement of Completion

Full-time – 15 weeks.

www.bcit.ca/study/programs/2571000000

DESCRIPTION Program: Prepares the participant for Transport Canada examinations leading to the issuance of a Master Minor Waters Certificate of Competency. Careers: Holders of the Master Minor Waters Certificate of Competency are qualified to act in the capacity of a Master of vessels on the Minor Waters of Canada (the lakes and rivers of Canada, excluding the Great Lakes and Lake Winnipeg).

ENTRANCE REQUIREMENTS English-language proficiency. Six months watchkeeping service on related waters while holding WKMR, First Mate Limited. Applicants for the final Transport Canada examination leading to the Master Limited, over 60 GRT certificate, will be required to demonstrate they meet all prerequisites for this certificate. For detailed information on the certificate requirements contact your nearest Transport Canada Marine Safety office or visit their website at www.tc.gc.ca/marine.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Millwright ELTT – Certificate of Trades Training

Full-time – 39 weeks. Starts in September.

www.bcit.ca/study/programs/2200ttcert

DESCRIPTION Program: Millwrights install, repair, overhaul, and maintain all types of machinery and heavy mechanical equipment. They work from plans and blueprints and install equipment and align parts or components. Millwrights also maintain and repair machinery as required. Careers: Anywhere that machinery exists there is usually work for a millwright. Employment is mainly centred on the major B.C. industries: mining, pulp mills, wood processing and petrochemical plants, with smaller numbers being employed in the manufacturing field, the food processing industry, and the construction sector.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (except Accounting). BCIT pre-test is acceptable for English and math. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Millwright – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 7 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/3950appr

DESCRIPTION Program: Millwrights install, repair, overhaul and maintain all types of machinery and heavy mechanical equipment. They work from plans and blueprints and install equipment and align parts or components. Millwrights also maintain and repair machinery as required.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 or equivalent. English 10, Math 10, Science 10. High-school graduation is preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services: Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Motorcycle Mechanic ELTT – Certificate of Trades Training

Full-time – 34 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/2250ttcert

DESCRIPTION Program: Motorcycle mechanics are involved with all aspects of motorcycle, ATV, and related equipment service and repair. They are required to perform operations such as new unit assembly; full-service, top-end and transmission rebuilds; electrical component repair and chassis, wheel, suspension, final drive and accessory service. Careers: Work as a mechanic in service departments at a franchised motorcycle dealer. Many grads progress to service management positions. Some are involved in their own service and repair businesses.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any Math 11 (except Accounting). BCIT pre-test is acceptable for English and math. Good physical condition is desirable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Motorcycle Mechanic – Apprenticeship Training – Diploma of Trades Training*

Full-time – 2 levels of 5 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/4000appr

DESCRIPTION Program: The program will include courses in servicing internal combustion engines, applying principles of lubrication, basic electrical systems, two- and four-cycle top end service, electrical systems, brake systems and wheels and tires.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation. English 12, any Math 11 (except Accounting).

APPLICATION DETAILS Register through BCIT Apprentice Services: Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Nautical Sciences – Diploma of Technical Studies

Full-time – 4 years. Cooperative Education. Starts in September.

www.bcit.ca/study/programs/2535dipts

DESCRIPTION Program: Learn the academic and practical skills associated with water transport ships or self-propelled vessels that transport passengers and cargo over oceans as well as coastal and inland waters. Careers: Navigation officer, watchkeeping officer, first mate, second mate, ship's mate, ship pilot, ferryboat master, tugboat captain, master mariner, ship's captain, third mate.

ENTRANCE REQUIREMENTS High-school graduation. Technical and Professional Communications 12 (P) or English 12 (P), Principles of Math 11 (C), Introductory Math 11 (C), Applications of Math 11 (C) or approved equivalents. BCIT pre-test will meet English and math requirements. Physics 11 or Chemistry 11 is recommended. Pass, to Transport Canada standards, a medical, hearing, and eyesight test. This test must be conducted by a Transport Canada-approved doctor. Interview. Note that acceptance into the program does not constitute a guarantee by BCIT that a shipping company will provide a berth for the co-op terms. Sign a waiver.

APPLICATION DETAILS Application Processing: Oct. 1 until the program fills. Applications are considered for specific intake.

Piledriver and Bridgeworker – Apprenticeship Training – Diploma of Trades Training*

Full-time – 3 levels of 8 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/4100appr

DESCRIPTION Program: A piledriver and bridgeworker constructs, installs, repairs or removes all types of deep piles and caisson foundations and other types of marine installations such as bridges, docks, wharves, tunnels, and bulkheads.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services: Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Piping ELTT – Certificate of Trades Training

Full-time – 30 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/2370ttcert

DESCRIPTION Program: Prepares students for entry-level employment in the piping trades: plumbing, steamfitting, gasfitting, sprinklerfitting. By experiencing all four trade specialties, students will be prepared to choose a path that best suits them. Careers: Upon successful completion of the program, students may seek employment as apprentices. The employment outlook for graduates of the Piping program is very good.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable for English and math.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Plumbing – Apprenticeship Training – Diploma of Trades Training*

Full-time – 3 levels of 8 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/4150appr

DESCRIPTION Program: A plumber installs, alters or repairs any plumbing system, including all work usually done by a journeyman plumber governed by the B.C. Plumbing Code.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation or equivalent. English 12, Algebra 11 or Trade Mathematics 11, Physics 11 or Science and Technology 11.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Power Engineering (General, Technical, Power and Process)

See *Engineering, Applied and Natural Sciences*, page 35.

Power Equipment Mechanic ELTT – Certificate of Trades Training

Full-time – 34 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/2340ttcert

DESCRIPTION Program: Power equipment mechanics must be very versatile due to the wide variety of equipment they must service. Typical equipment serviced or repaired by power equipment mechanics includes: compressors, water pumps, chainsaws, ATVs, snowmobiles, personal watercraft, and lawn and garden equipment. Careers: Jobs can be found in retail outlets, service centres, equipment rental shops, or the mechanic may become self-employed. Opportunities are available throughout B.C.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any Math 11 (except Accounting). BCIT pre-test is acceptable for English and math. Good physical condition is desirable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Railway Conductor – Industry Partnership Certificate

Full-time – 32 weeks.

www.bcit.ca/study/programs/2075ipcert

DESCRIPTION Program: Conductors work as members of a train crew in either road or yard service. Conductors are involved with switching cars, making or splitting up trains in yards, or moving cars between yards, sidings or tracks according to instructions originating with yard and train planners. Careers: The railway industry will be facing retirement turnover as high as 70 per cent over the next 10 years, increasing demand for graduates. This program prepares graduates for employment in Class 1 railways in North America, and also with shortline and regional carriers.

ENTRANCE REQUIREMENTS High-school graduation or equivalent. English 12 (P) or Communications 12 (P). Principles of Math 11 (C) or Academic Math 11 (C) or Principles of Math 12 (P) or Academic Math 12 (P) or Applications of Math 12 (C). BCIT pre-test is acceptable for English and math.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Refrigeration Mechanic ELTT – Certificate of Trades Training

Full-time – 25 weeks. Starts in September.

www.bcit.ca/study/programs/2320ttcert

DESCRIPTION Program: Refrigeration mechanics install, maintain, repair and overhaul residential, commercial and industrial central air-conditioning systems. Careers: Training prepares students for entry-level employment in the commercial refrigeration industry.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). BCIT pre-test is acceptable for English and math. Applicants must also pass the BCIT Mechanical Reasoning test. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Refrigeration – Apprenticeship Training – Diploma of Trades Training*

Full-time – 2 levels of 6 weeks each, 2 levels of 8 weeks each.
Multiple start dates each year.

www.bcit.ca/study/programs/4200appr

DESCRIPTION Program: Refrigeration mechanics install, maintain, repair and overhaul residential, commercial and industrial central air-conditioning systems.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation. English 12, Math 11 or Trade Mathematics 11, Physics 11 or Science and Technology 11.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Saw Fitting – Apprenticeship Training – Diploma of Trades Training*

Full-time – 2 levels of 4 weeks each. Multiple start dates each year.

www.bcit.ca/study/programs/4300appr

DESCRIPTION Program: Inspect, install and fit various types of saws, including circular saws, band saws, gang saws and chain saws; adjust, operate, maintain and repair saw sharpening equipment; set, sharpen, replace, repair and weld saw teeth; sharpen, babbitt and balance chipper knives; and use power tools and related hand tools. Careers: Those working in the saw trades are employed in sawmills.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

*Specific program criteria must be fulfilled.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Security Systems Technician – Certificate of Technical Studies

Full time – 28 weeks. Starts in September, November and April each year.
www.bcit.ca/study/programs/2595certts

DESCRIPTION Program: The Security Systems Technician training program is the first full-time program of its kind in North America, and provides the training to excel in this rapidly-growing industry. Careers: Design, install, and service alarm systems, central station monitoring equipment, access control systems and closed-circuit television systems.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, Academic Math 11 (C). BCIT pre-test is acceptable for English and math. Good physical condition. Prior to admission, applicants will be required to undergo a criminal record search – forms and details will be mailed to applicants with their offer of acceptance.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Sheet Metal Working ELTT – Certificate of Trades Training

Full-time – 20 weeks. Multiple start dates each year.
www.bcit.ca/study/programs/2600ttcert

DESCRIPTION Program: Sheet metal workers fabricate, assemble, alter and install a variety of sheet metal products. Typical jobs performed by a sheet metal worker include heating, ventilation, air conditioning and refrigeration system ductwork, hospital and kitchen equipment (stainless steel), industrial exhaust systems, industrial sheet metal work, residential sheet metal work, roofing and flashing (copper, aluminium, stainless steel and galvanized iron). Careers: All indicators show that employment in the sheet metal trade will continue to be positive in the future. New opportunities are opening up in the precision metal forming industry. Graduates find work with union and non-union employers.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Sheet Metal – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 6 weeks each. Multiple start dates each year.
www.bcit.ca/study/programs/4350appr

DESCRIPTION Program: Sheet metal workers lay out, fabricate, assemble, weld, install and service ducting, spouting fittings, cabinets, gutters, copings, flashings, supporting devices, and integral equipment associated with the blowpipe, air pollution, heating, ventilating, air-conditioning, roofing, restaurant, kitchen and hospital equipment fields. They are familiar with the properties of metal and operate specialized metalworking machines.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation including math and sciences. English 12.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

*Specific program criteria must be fulfilled.

Steamfitting – Apprenticeship Training – Diploma of Trades Training*

Full-time – 3 levels of 6 weeks and 1 level of 8 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/4400appr

DESCRIPTION Program: A steamfitter/pipefitter installs, alters or repairs steam and hot water boilers and systems for the generation and conveyance of steam and hot water and process piping systems in industrial projects or manufacturing plants.

ENTRANCE REQUIREMENTS Recommended for success: High-school graduation or equivalent. English 12, Algebra 11 or Trade Mathematics 11, Physics 11 or Science and Technology 11.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Steel Fabricating ELTT – Certificate of Trades Training

Full-time – 23 weeks. Multiple start dates each year.
www.bcit.ca/study/programs/2700ttcert

DESCRIPTION Program: Steel fabricators deal with the selection, layout, shearing, cutting (with a torch), punching, drilling, forming, fitting and welding of steel plates and structural steel shapes into products for the forest, mining, construction, transportation and agricultural industries. Careers: Training prepares students for entry-level jobs as steel fabricators.

ENTRANCE REQUIREMENTS Grade 10 education. English 10, Math 10. BCIT pre-test is acceptable.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Steel Fabrication – Apprenticeship Training – Diploma of Trades Training*

Full-time – 4 levels of 5 weeks each. Multiple start dates each year.
www.bcit.ca/study/programs/4450appr

DESCRIPTION Program: Metal fabricators interpret drawings and are involved in the development, layout, cutting, burning, sawing, punching, bending, drilling, forming, straightening, fitting and assembling, bolting, riveting, welding, testing, inspecting, preparing, painting, rigging and handling of structural and mechanical fabrications in the metal fabrication trade.

ENTRANCE REQUIREMENTS Recommended for success: Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation is preferred.

APPLICATION DETAILS Register through BCIT Apprentice Services:
Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Technology Teacher Education

See *Engineering, Applied and Natural Sciences*, page 36.

Telecommunications Technician

See *Engineering, Applied and Natural Sciences*, page 36.

Information is subject to change. Please see www.bcit.ca for BCIT's current official calendar information.

Tool and Die Technician – Diploma of Trades Training

Full-time – 99 weeks including 33 weeks of cooperative education. Starts in July each year. Cooperative Education.

www.bcit.ca/study/programs/2800tt dipl

DESCRIPTION Program: Provides a foundation of tool-making and plastic mould-making skills, requiring operation of all types of shop equipment such as lathes, grinders, milling machines and computer numerical control (CNC) machines. Careers: Graduates can look forward to an apprenticeship in machining, tool- and die-making or mould-making, or a career in modern production processes: quality control, process planning, designing, estimating or technical sales.

ENTRANCE REQUIREMENTS High-school graduation. English 12 or Communications 12, any math course at the Grade 11 level (Accounting 11 is not acceptable). BCIT pre-test is acceptable for English and math. Good physical condition.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Trades Discovery (General) – Associate Certificate

See *Access and Transfer*, page 17.

Trades Discovery for Women – Associate Certificate

See *Access and Transfer*, page 17.

Watchkeeping Mate Restricted (WKMR) – Certificate of Technical Studies

Full-time – 21 weeks

www.bcit.ca/study/programs/2541certts

DESCRIPTION Program: This program prepares the participant for all Transport Canada examinations leading to the Watchkeeping Mate Restricted Certificate of Competency which qualifies the holder to carry out duties as a second mate of any vessel within Local Voyage limits, or first mate of a vessel not exceeding 350 tons or a tug of any size, within Local Voyage limits.

ENTRANCE REQUIREMENTS English-language proficiency. Grade 10 Math recommended. 24 months sea service assessed by Transport Canada. When applying for the final oral Transport Canada examination for the Watchkeeping Mate Restricted certificate, an applicant must submit proof of additional training certificates. For detailed information on the additional training requirements contact your nearest Transport Canada Marine Safety office or visit their website at www.tc.gc.ca/marine.

APPLICATION DETAILS To register, contact the Registration Office at BCIT Marine Campus: Tel.: 604-453-4111 • Fax 604-985-2862

Welding Level C – Certificate of Trades Training

Full-time – 30 weeks. Multiple start dates each year.

www.bcit.ca/study/programs/2850ttcert

DESCRIPTION Program: This program develops the fundamental skills and knowledge for initial employment in the welding industry. Careers: Nearly every industry employs welders. Work in metal fabricating shops, general repair shops, new construction sites, mining, logging, shipbuilding, pulp mills, sawmills, and oilfield camps.

ENTRANCE REQUIREMENTS Grade 10 education. English 10, Math 10. BCIT pre-test is acceptable. An appropriate combination of work experience and education will be considered.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Applications are wait-listed (first-come, first-served).

Welding Level B – Certificate of Trades Training

Full-time – up to 16 weeks depending on modules required. Multiple start dates each year.

www.bcit.ca/study/programs/2860ttcert

DESCRIPTION Program: This program develops more advanced welding skills and related theory than were taught in the Level C program: pipe welding, gas tungsten arc welding, etc., providing graduates with a broader base of skills and more employment opportunities. Careers: Nearly every industry employs welders. Work in metal fabricating shops, general repair shops, new construction sites, mining, logging, shipbuilding, pulp mills, sawmills, and oilfield camps.

ENTRANCE REQUIREMENTS English-language proficiency. Completion of the BCIT Level C program or other training equivalent to the Level C institutional/college training component of the Provincial Registered Welder program.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Call 604-432-8203 to register.

Welding Level A – Certificate of Trades Training

Full-time – approximately 8 weeks depending on number of modules required. Multiple start dates each year.

www.bcit.ca/study/programs/2870ttcert

DESCRIPTION Program: This program teaches pipe welding with stainless steel electrodes, low alloy steel electrodes, more advanced blueprint reading and welding metallurgy. Careers: Nearly every industry employs welders. Work in metal fabricating shops, general repair shops, new construction sites, mining, logging, shipbuilding, pulp mills, sawmills and oilfield camps.

ENTRANCE REQUIREMENTS English-language proficiency. Completion of the BCIT Level B program or other training equivalent to the Level B institutional/college training component of the Provincial Registered Welder program. Note: Completion of the Gas Tungsten Arc Welding 1 course in Level B program or its equivalent is a prerequisite to Gas Tungsten Arc Welding 2.

APPLICATION DETAILS Application Processing: Ongoing throughout the year. Call 604-432-8203 to register.

Welding – Apprenticeship Training – Diploma of Trades Training*

Full-time – 6 weeks for each of four levels. Multiple start dates each year.

www.bcit.ca/study/programs/4550appr

DESCRIPTION Program: Apprentices receive training in welding various steel and aluminum parts using the SMAW, GMAW and FCAW processes in fabrication, construction and erection and repair of components or structures in plate and structural applications.

ENTRANCE REQUIREMENTS Recommended for success: Level 1A – Grade 10 education or equivalent. English 10, Math 10, Science 10. High-school graduation is preferred.

Level 1B – Successful completion of Level 1A.

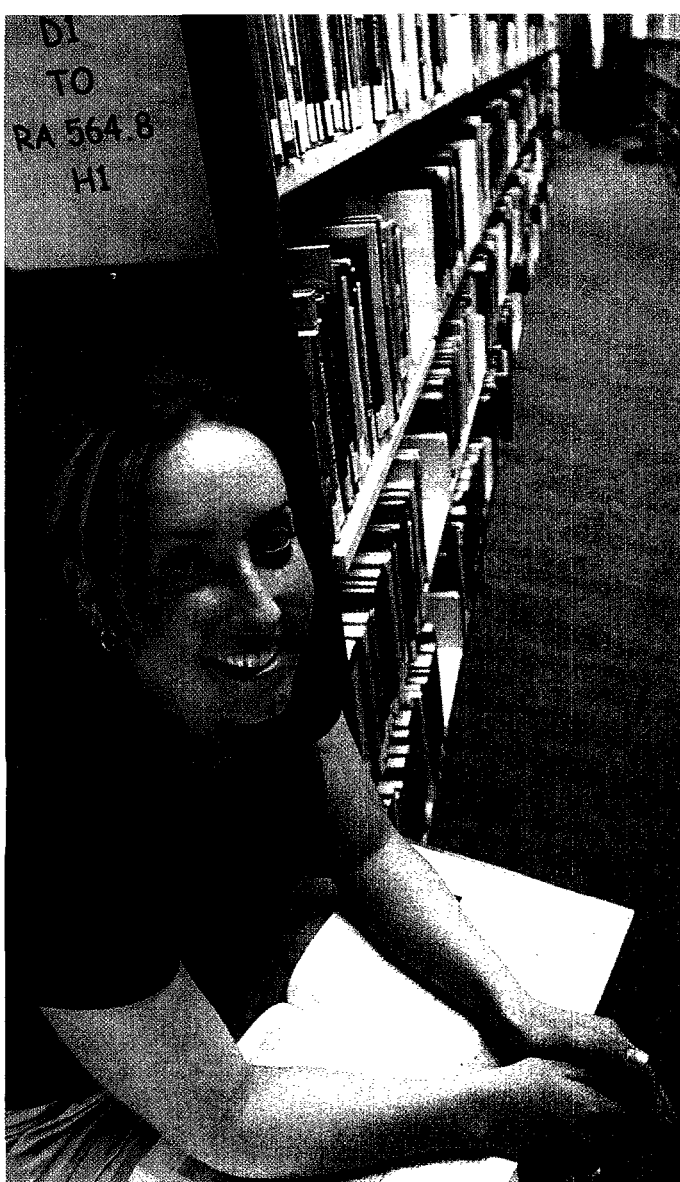
Level 2 – Successful completion of Level 1A and Level 1B.

Level 3 – Successful completion of Level 1A, Level 1B and Level 2.

APPLICATION DETAILS Register through BCIT Apprentice Services: Tel.: 604-456-8100 • Toll-free: 1-800-667-0676
E-mail: apprentice@bcit.ca

Wireless Communications Technician – Diploma of Technical Studies

See *Engineering, Applied and Natural Sciences*, page 36.



GENERAL INFORMATION

BCIT establishes admission guidelines to help students achieve success in our programs. Most programs require high-school graduation with specific Grade 11 and Grade 12 subjects. Some programs also have non-academic requirements such as attending an information session, submitting a resume, or participating in an interview. See pages 17-59 of this book for admission requirements for your specific program, or find them at www.bcit.ca/study/programs

REQUIREMENTS

When you apply, you must provide proof that you have completed the required prerequisite courses with the specified grades and all other entrance requirements as identified by the program to which you are applying. This applies to all applicants whether you have been educated inside or outside Canada. Applicants lacking specific prerequisite courses or required grades will be advised of deficiencies in entrance requirements. It is your responsibility to upgrade to meet the required standards for the program to which you are applying.

International students should check with the International Student Centre regarding admission requirement equivalencies. If necessary, your credentials from outside Canada can be evaluated through the International Credential Evaluation Service (ICES); find out more at www.bcit.ca/ices.

Admissions

ACCEPTABLE ALTERNATIVES TO A HIGH SCHOOL DIPLOMA

Both the **General Education Development (GED)** and the **Basic Training for Skills Development Level 4 (BTSD 4)** are considered equivalent to high-school graduation with a Pass in English 12. GED Math is equivalent to Math 10.

The **B.C. Adult Graduation Diploma** is also considered equivalent to high-school graduation. Applicants should check with Student Information and Enrolment Services to ensure that courses taken through the BCAGD are acceptable for admission to specific BCIT programs.

MATURE STUDENTS

If you haven't graduated from high school, you may still be considered for admission as a mature student. Mature students will be considered on the basis of their relevant experience in addition to meeting BCIT's English-language requirements and any specific course prerequisites for the program. Applicants must supply academic documents and proof of relevant experience to support their application.

UPGRADING OPTIONS

If you don't have the courses or grades you need for acceptance, or want to take refresher courses, BCIT offers various preparatory programs. Please see page 17 for details.

HOW APPLICATIONS ARE PROCESSED

All applications are considered promptly and equitably. You can only be considered for one program at a time. Your application will be processed for your first choice program first; if you are not accepted into that program, your application will be transferred to your second choice program if you indicated one.

When all the seats in a program are filled, a wait list of qualified applicants is created. If a space becomes available, an applicant on the wait list is offered the seat.

WAIT LISTS AND SPECIFIC INTAKES

Programs identified as “wait list” have a special admissions process. Once these programs are full, complete applications are placed on a wait list (on a first-come, first-served basis) for the next available seat.

“Intake” refers to each time a program takes in new students. If a program is identified as **specific intake** in the application details section of the program information, wait-listed applications are not carried forward to the next intake. Once the program is full, the remaining applications are not transferred to the next intake. Individuals who still want to take the program must re-apply for the next start date. If there are more applicants than seats available, BCIT will select those applicants it deems to have the best opportunity for success. This means that meeting the prerequisites does not guarantee you a seat in the program.

PRIORITY OF STUDENT SELECTION

FIRST PRIORITY B.C. residents who are Canadian citizens or landed immigrants (B.C. residents with Permanent Resident status at time of application) who have lived in B.C. for the immediate 12 months prior to enrolment.

SECOND PRIORITY Canadian citizens and those applicants with Permanent Resident status who live out of province.

THIRD PRIORITY Applicants without Canadian citizenship or Landed Immigrant (Permanent Resident) status.

Information

ENGLISH LANGUAGE PROFICIENCY

All BCIT students must demonstrate an acceptable level of English language skills. If your first language is not English and/or you have not previously met an acceptable level of English as required by BCIT and the program to which you are applying, you will be required to show that you have attained the required level. You can do this in one of the following ways:

1. INDIVIDUAL ASSESSMENT BY THE BCIT COMMUNICATION DEPARTMENT

The BCIT English-language assessment form can be obtained and signed by the Admissions department or Student Information and Enrolment Services. To undergo this assessment, applicants are required to register for COMM 0015. You will be assessed for three English-language components: grammar, reading comprehension, and written composition. Assessment results are:

English level	BCIT English-language Competency Assessment results required
English 12 at a B level	score of 80
English 12 at a C+ level	score of 70
English 12 at a C level	score of 60
English 12 at a Pass or C- level	score of 50
English 11 at a Pass to C+ level	score of 50

A result of “U” on the BCIT transcript indicates that you do not meet the English-language requirement.

2. COMPLETION OF BCIT COMM 1103 OR COMM 1106

English level	BCIT Communications course minimum grade required
English 12 at a Pass to a B	COMM 1103 or COMM 1106 (50%)

3. COMPLETION OF BCIT PRE-ENTRY COMMUNICATIONS COURSE

To register for a Pre-entry Communications course, students need to write the COMM 0009 placement test. The COMM 0009 test determines students' eligibility for registration in the appropriate level of a pre-entry COMM course.

English levels	BCIT Pre-entry Communications course minimum grade required
English 12 with a B or better	COMM 0005 or COMM 0008 or COMM 0007 (80%)
English 12 with a C+ or better	COMM 0005 or COMM 0008 or COMM 0007 (70%)
English 12 with a C or better	COMM 0005 or COMM 0008 or COMM 0007 (60%)
English 12 with a Pass or better	COMM 0005 or COMM 0008 or COMM 0007 (50%)
English 11 with a C+ or better	COMM 0004 (70%)
English 11 with a C or better	COMM 0004 (60%)
English 11 with a Pass	COMM 0004 (50%)

To register for these courses or get more information, visit www.bcit.ca/study or contact Student Information and Enrolment Services at 604-434-1610.

4. VANCOUVER COMMUNITY COLLEGE ENGLISH-LANGUAGE ASSESSMENT TEST

Results of this test remain valid for one year.

English levels	VCC ELA minimum test score required
English 12 (B)	160
English 12 (Pass to C+)	145
English 11 or Communications 12	135
English 10	125

Call 604-871-7093 for information.

5. COMPLETION OF AN APPROVED EQUIVALENT ENGLISH OR COMMUNICATIONS COURSE

at another institution. You must receive the entry grade required for the program. For information on acceptable courses and grades, call 604-434-1610 or visit www.bcit.ca/askanadvisor.

6. TOEFL (TEST OF ENGLISH AS A FOREIGN LANGUAGE) AND THE TWE (TEST OF WRITTEN ENGLISH). The Test of Spoken English (TSE) may also be required by some programs.

English levels:	TOEFL or TWE or TSE score required:	
	TOEFL equivalent paper-based scores:	TOEFL equivalent computer-based scores:
English 12 (B or better) (Technical and Professional Communications 12 at B or better)	TOEFL 580+ and TWE 5.0+ and TSE 50+	240+ and essay rating 5.0+ and TSE 50+
English 12 (Pass to C+) (Technical and Professional Communications 12 at Pass to C+ or better)	TOEFL 550+ and TWE 4.5+ (some programs may also require TSE 50+)	220+ and essay rating 4.5+ (some programs may also require TSE 50+)
English 11 or English 12ME or Communications 12 "Pass" (this is not Technical and Professional Communications)	500 and TWE not required	175+

To request an application form and registration information about TOEFL, call 609-771-7100, e-mail TOEFL@ets.org or visit www.toefl.org.

An alternative for TSE through TOEFL is the Spoken English Assessment at BCIT: COMM 0033. To register and obtain further information, contact Student Information and Enrolment Services at 604-434-1610.

BCIT COMM 0033 SEA	TSE	Grade 12
75%+	50+	B
65%+	45+	C+
50-64%	40+	P to C
40% FAIL	20-30+	Strongly recommend upgrading

7. IELTS (INTERNATIONAL ENGLISH-LANGUAGE TESTING SYSTEM)

Scores in all four components must be the academic stream; Listening, Reading, Writing, and Speaking are required:

English Level	Overall Score	Listening	Reading	Writing	Speaking
English 12 (B or better)	6.5	6.0	6.0	7.0	7.0
English 12 (C to C+)	6.0	5.5	5.5	6.0	6.0
English 12 (Pass to C-)	5.5	5.0	5.0	6.0	5.0
English 11 (Pass)	5.0	4.5	4.5	5.0	5.0
Communications 12 (Pass)	5.0	4.5	4.5	5.0	5.0

Visit www.uctes.org.uk for information.

8. THE CAEL ASSESSMENT (CANADIAN ACADEMIC ENGLISH-LANGUAGE ASSESSMENT)

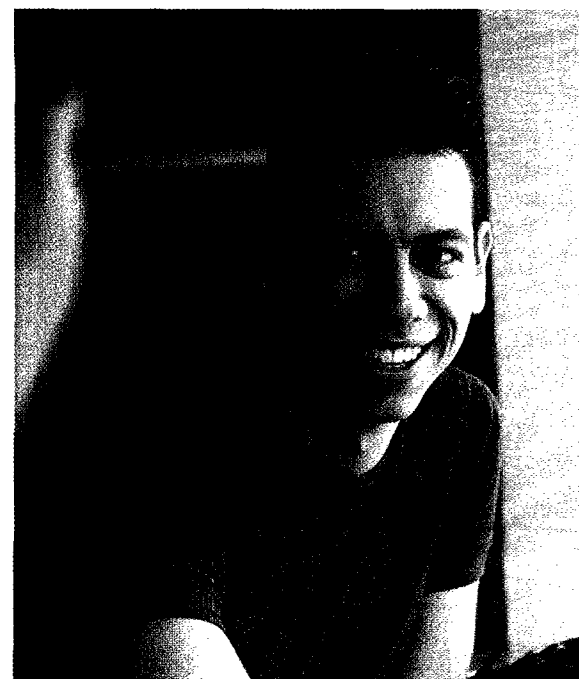
The minimum band scores for each category:

English Level	Overall Score	Listening	Reading	Writing	Speaking
English 12 (B or better)	70	70	60	70	60
English 12 (C to C+)	60	60	60	60	60
English 12 (Pass to C-)	60	50	50	50	50

For more information on the CAEL, visit www.cael.ca.

TRADES ADMISSION ASSESSMENT (BCIT PRE-TEST)

Many trades and technical studies programs allow applicants to challenge admission requirements by completing entrance examinations for English, math, and mechanical aptitude. Applicants will be charged \$35 for each subject tested, to a test fee maximum of \$70; if you need to write three or more tests, you will still only be charged \$70. (Fees are subject to change.) The fee includes an opportunity for one rewrite, if required, within two months of the initial testing. For more information, visit www.bcit.ca/admission/upgrading/testoptions.shtml. (All fees are quoted in Canadian funds.)



B.C. HIGH SCHOOL COURSE DETAILS

Courses taught in B.C. high schools are acceptable as entrance requirements as follows. Check your program's admission requirements for the specific math courses accepted.

Requirement	Acceptable (unless otherwise specified)
English 12	English 12 or Technical and Professional Communications 12
English 11	English 11 or Technical and Professional Communications 11
Communications 12	English 12 or Technical and Professional Communications 12 or Communications 12
Math 12	Principles of Math 12 or Applications of Math 12 or Academic Math 12
Math 11	Principles of Math 11 or Applications of Math 11 or Academic Math 11
Any Math at the Grade 11 level	Principles of Math 11 or Applications of Math 11 or Essentials of Math 11 or Intro to Math 11 or Academic Math 11 or Trades Math 11 or Consumer Math 11 or Math 11A
Physics 12	Physics 12
Physics 11	Physics 11 or Applications of Physics 11 and 12

CREDIT FOR PREVIOUS POST-SECONDARY EDUCATION

BCIT offers three ways for you to receive credit for course work completed at another post-secondary institution:

1) **INDIVIDUAL COURSE TRANSFER CREDIT** – If you believe you have completed the equivalent of some courses in your BCIT program at another institution, you can apply for individual course transfer credit. You must be accepted into the BCIT program before you can apply for this credit. Applications for Transfer Credit are available through Student Information and Enrolment Services at 604-434-1610. Students wishing to apply for transfer credit must provide official transcripts to support the request for credit; photocopies are not acceptable. If transfer credit is granted, you will have a lighter course load; however, the duration of your program will not be shorter, and your fees will not be reduced. To be eligible for scholarships and graduating awards, you must carry a 100 per cent course load in your full-time program at BCIT.

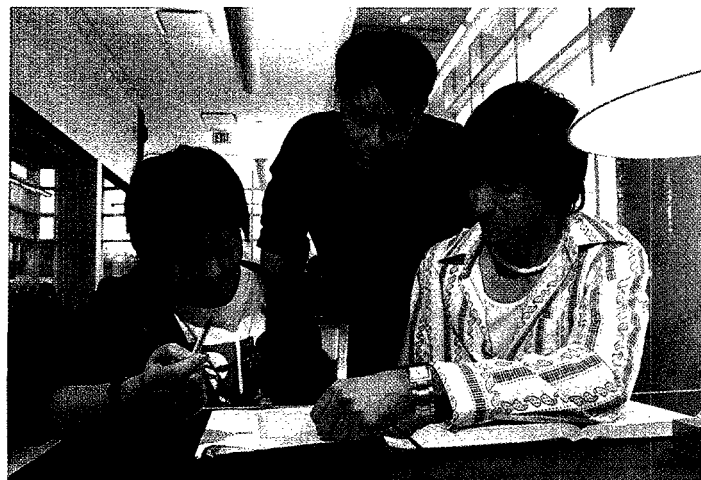
2) **ADVANCED PLACEMENT** – Advanced placement refers to the entry of students to any level of a program beyond Level One, where advanced standing is given when standard course requirements are recognized as having been completed elsewhere or previously. Advanced placement applicants may apply to any level in the program beyond Level One, but they may also apply to combinations of courses in multiple levels. In most cases, advanced standing will only be granted where an applicant can show evidence of successfully completing an acceptable equivalent for every single course in the preceding level(s). For more information, phone 604-432-8230 or visit www.bcit.ca/admission/transfer/advanced.shtml.

3) **INTERNATIONAL CREDIT EVALUATION SERVICE** – If you have studied in another country and want your education recognized in Canada, BCIT offers the International Credit Evaluation Service (ICES). BCIT recommends that international students pursue a credit evaluation of their previous studies prior to applying to BCIT. This service allows us to correctly assess your credentials either for course transfer credit or for advanced placement. For information see www.bcit.ca/ices.

OTHER CREDIT FOR KNOWLEDGE GAINED

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR) –

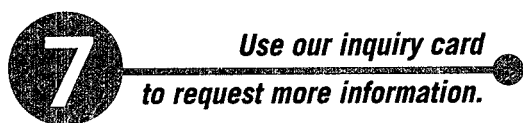
Many individuals have acquired skills and knowledge that are relevant to their fields of study but that are not acknowledged in formal academic credentials. Examples include those who have extensive on-the-job training or learning that does not qualify for transfer credit. BCIT provides the opportunity for such individuals to demonstrate their expertise and to receive credit where appropriate. For more information, contact the PLAR coordinator at 604-451-7023.



Want more? Information, that is.

Learn more about BCIT and get detailed program information. Here's how:

- ① **Check the web:** www.bcit.ca has everything you need, including the most current information on programs, fees, admissions and events.
- ② **Call Program Advising:** Program Advisors can answer your program- and admission-related questions. Call 604-434-1610 or visit www.bcit.ca/askanadvisor.
- ③ **Mark your calendar for our Big Info Session and Program Expo:** It's every program – all in one place. Be there – 5 p.m. to 8 p.m., Oct. 12, 2005, at the Burnaby Campus.
- ④ **Sign up for an information session:** Learn more about the program(s) you're interested in. Visit www.bcit.ca/infosessions or call 604-434-1610 for details.
- ⑤ **Take a campus tour:** Get to know the Burnaby Campus. Visit www.bcit.ca/tours for details.
- ⑥ **Come to our Open House:** It's a campus-wide event that allows you an inside look at BCIT's labs and classrooms, and showcases student projects and program displays. April 7-8, 2006.



BRITISH COLUMBIA
INSTITUTE OF TECHNOLOGY
A POLYTECHNIC INSTITUTION

www.bcit.ca

Program Inquiry Card

Thank you for your interest in BCIT. This inquiry card offers two methods to receive information on BCIT programs and services. Please let us know if you would prefer information sent via regular mail or e-mail.

Step One

- ☐ Please e-mail me more information on the BCIT programs indicated below.

First Name: _____

Last Name: _____

E-mail: _____

OR

- ☐ Please mail me more information on the BCIT programs indicated below. The information you provide will allow us to add you to our mailing list for future program information. You will also be assigned a student number. For faster service, please use this number on all future dealings with BCIT. In order to avoid duplication of records on our computer system, please write your birth date in the space provided.

First Name: _____

Last Name: _____

Mailing Address: _____

City: _____ Prov: _____

Country: _____ Postal Code: _____

Tel: (____) _____

E-mail: _____

Birthdate: ____ / ____ / ____ (dd/mm/yy) Male ☐ Female ☐

Check boxes for additional information to be mailed to you:

- | | |
|---|---|
| <input type="checkbox"/> Student Housing | <input type="checkbox"/> Disability Resource Centre |
| <input type="checkbox"/> Student Financial Aid and Awards | <input type="checkbox"/> Aboriginal Programs and Services |
| <input type="checkbox"/> Part-time Studies Guide | <input type="checkbox"/> International Students |

Step Two

Please indicate which BCIT programs you are interested in by filling in the program name as found in the Path Finder program guide.

Program Name(s)

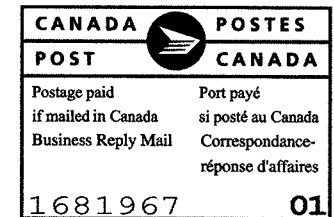
Step Three

How did you obtain the BCIT Path Finder guide to full-time programs?

- | | |
|---|---|
| <input type="checkbox"/> Picked up from a BCIT campus | <input type="checkbox"/> Mailed to me |
| <input type="checkbox"/> Visit by a BCIT representative | <input type="checkbox"/> A BCIT Information Session |
| <input type="checkbox"/> Off-campus career/education fair | <input type="checkbox"/> Picked up from a counselling/
career centre |

Step Four

Tear out and mail in this card.



1000010410-V5G3H2-BR01

STUDENT INFORMATION AND ENROLMENT SERVICES
3700 WILLINGDON AVE
BURNABY BC V5G 9Z9

Want your say?

We want your opinion.

Tell us what you think about this Path Finder Program Guide and you could win a BCIT prize pack full of cool stuff. It only takes a few minutes, so go to www.bcit.ca/study/pathfindersurvey.shtml now.



The path you choose can make all the difference.



HOW TO APPLY

Follow these steps to apply to BCIT. Please note the additional information regarding document requirements below.

1) **APPLY.** Submit your application online at www.bcit.ca.

You can also submit a paper application, available online at www.bcit.ca/admission/downloads, at your local school or college, or through Student Information and Enrolment Services at 604-434-1610. You will also have to pay the application fee: \$60 for Canadian citizens and landed immigrants; \$250 for international applicants.

(All fees are quoted in Canadian funds.)

2) **MEET THE ENTRANCE REQUIREMENTS.** To be eligible for admission, you must meet the academic prerequisites and all other entrance requirements, as identified by your desired program. You can still apply if you are currently upgrading to meet entrance requirements. If you are unsure whether you meet all requirements, submit your application and the Admissions department will notify you if you are missing any requirements.

3) **SUBMIT REQUIRED DOCUMENTS.** Either with your paper application, or following your online application, send documents to BCIT that show you meet the entrance requirements (academic and non-academic) for your desired program.

4) **RECEIVE FEEDBACK FROM BCIT ADMISSIONS.** Within four weeks of your submission, a letter will be sent explaining the status of your application. This letter will either ask you for additional information or inform you of the decision on your application.

5) **KEEP US UP TO DATE.** Remember to keep your contact information up to date so we can contact you if necessary.

NEED HELP?

If you have any questions during the application process that aren't answered here, call Program Advising at 604-434-1610 or the Student Information and Enrolment Services department at 604-432-8419.

DOCUMENT REQUIREMENTS

You must submit official transcripts showing you meet the academic requirements identified by your chosen program. If you do not yet have official transcripts, attach photocopies so processing can begin.

Other documents may be required, such as a resume, letter of intent, or a copy of your driver's licence.

IF YOU ARE STILL IN HIGH SCHOOL

Ask your principal's office to provide you with your marks for the courses you have completed, interim marks for courses you are currently attending, and a list of courses you plan to take in the future. Arrange to have your final official transcript sent directly to BCIT as soon as your courses are complete. Interim and final transcripts from the Ministry of Education may arrive at BCIT later than required, so it is important that you submit your own copies of interim and final marks as soon as you receive them from your high school.

IF YOU HAVE GRADUATED FROM HIGH SCHOOL

Submit your final official transcripts as proof of having completed the entrance requirements for your chosen program.

IF YOU ARE ATTENDING OR HAVE GRADUATED FROM COLLEGE OR UNIVERSITY

Submit your high school transcripts along with official post-secondary transcripts to show you meet the entrance requirements for the program you have chosen.

IF YOU ARE A MATURE APPLICANT

You must supply academic documents that show you have met BCIT's English Language requirement and the individual subject prerequisites. Also include proof of relevant experience to support your application.

IF YOU ARE CURRENTLY UPGRADING

If you are attending or planning to attend courses that are prerequisites for your chosen program, you must include proof of registration with your application. It is essential that you keep the Admissions department informed of your progress by sending interim transcripts or an official note from the course instructor. When you complete the course, arrange to have your official transcripts sent to Student Information and Enrolment Services. If you are taking an upgrading course at a college, be sure to check with Program Advising for the equivalent course numbers accepted by BCIT.

IF YOU'RE APPLYING FROM OUTSIDE B.C.

If you attended a secondary school in another Canadian province or territory, you should submit your final transcripts.



INTERNATIONAL APPLICANTS

IF YOU'RE APPLYING FROM OUTSIDE CANADA

If your education was completed in another country, submit official high-school and post-secondary transcripts from the schools you attended. Official English Translations must accompany documents that are in another language. Costs for translation into English are the responsibility of the applicant.

Please note that the deadline for applications from international students is four weeks earlier than stated for each program. For example, we recommend that students apply from Oct. 1 – Feb. 28 for programs that start the following September. The absolute application deadline for September starts is May 1, but the earlier you apply the better your chances of gaining a seat. This deadline is also in place to allow you additional time to apply for your study permit from the Canadian Embassy, Consulate or High Commission in your area.

MEDICAL INSURANCE

Medical treatment and hospitalization are not free in Canada. To protect you and your family, it is mandatory that all students possess or purchase valid medical insurance while studying at BCIT. You may purchase medical insurance from your home country, or purchase your coverage in Canada through a private medical insurance company.

Students who have been in B.C. for three months must apply for B.C. Medical coverage. The Government of B.C. has made this coverage mandatory. For information, visit www.hlth.gov.bc.ca/msp.

OBTAINING YOUR STUDY PERMIT

Most foreign students will need a study permit to study in Canada; however, there are a few exceptions, including:

IF YOU WISH TO STUDY IN A SHORT-TERM COURSE OR PROGRAM: You do not need a Study Permit if you are planning to take a course or program in Canada with a duration of six months or less. You must complete the course or program within the period authorized for your stay in Canada.

IF YOU ARE A MINOR CHILD ALREADY IN CANADA:

You do not need a Study Permit if you are a minor child, under the age of 19, already in Canada, and your parents are not “visitors” in Canada. For details, visit the Citizenship and Immigration Canada website at www.cic.gc.ca/english/study/minors.html.

FOREIGN REPRESENTATIVES TO CANADA: If you are a family or staff member of a foreign representative to Canada, accredited by the Department of Foreign Affairs and International Trade, you do not need a Study Permit to study.

FOR INTERNATIONAL STUDENTS WHO ARE OUTSIDE

OF CANADA: Once you have been accepted into a program at BCIT, take your letter of acceptance, along with your passport, additional passport photos as required, and the appropriate fee to the Canadian Embassy nearest your home. Apply for your study permit at the Embassy. Please note that the entire process may take between three weeks and six months, depending on whether you require a medical examination, and on the workload of the Embassy.

EXTENDING OR ALTERING A STUDY PERMIT

FOR INTERNATIONAL STUDENTS WHO POSSESS A CANADIAN STUDY PERMIT: Once you have been accepted into a program at BCIT, please contact the BCIT International Student Centre at +1-604-432-8816 to order an immigration package so that you may apply for an extension or alteration of your study permit. Please visit www.cic.gc.ca for more information on Citizenship and Immigration Canada.

INFORMATION FOR PERMANENT RESIDENTS

A study permit is not required. Students must provide a copy of their official Permanent Resident documents.

WHO NEEDS A TEMPORARY RESIDENT VISA?

A Temporary Resident Visa is an official document issued by a visa office abroad. It is placed in your passport to show that you have met the requirements for admission to Canada as a temporary resident.

Please visit the Citizenship and Immigration Canada website, at www.cic.gc.ca/english/visit/visas.html to determine whether or not you need a Temporary Resident Visa. Citizens of the countries listed need a Temporary Resident Visa to enter, visit or transit Canada.

HOW DO I APPLY FOR A TEMPORARY RESIDENT VISA?

If you need a Temporary Resident Visa in addition to your Study Permit, you do not have to make a separate application or pay a separate fee. An officer will issue it at the same time as the documentation that you will need to enter Canada as a student.

If you need a Temporary Resident Visa, but you do NOT need a Study Permit, please visit www.cic.gc.ca/english/applications/visa.html to download the appropriate application form.

Costs to Attend BCIT

EXACT COSTS WILL VARY FOR EACH STUDENT, BUT ALL STUDENTS HAVE TO PAY PROGRAM FEES, BUY BOOKS AND SUPPLIES, AND COVER THEIR LIVING AND TRANSPORTATION COSTS.

PROGRAM FEES

Program fees include the tuition for your program as well as service fees. Program fees vary from program to program and are affected by:

- whether you enrol in full-time studies, degree studies, part-time studies or apprenticeship training
- the length of your program
- whether you are a citizen or permanent resident of Canada or you are an international student (a student who is neither a Canadian citizen nor a permanent resident of Canada).

Program fees*, including student activity and student health plan fees are *estimated* as follows:

Average cost per year of a two-year diploma program	\$4,790
Average cost of a three- to six-month certificate program	\$2,370
Average cost of a seven- to 12-month certificate program	\$4,640
Average cost of apprenticeship training (cost based on six weeks of training)	\$630
Average cost per year of a full-time degree program	\$5,410

Program fees are subject to change. To access the most up-to-date BCIT program fee schedules and information, visit www.bcit.ca/admission/fees.

*International students pay, on average, two-to-three times more than the listed domestic program fee. Please see www.bcit.ca/admission/fees/international for details. To convert from Canadian dollars (CDN) into your currency, please visit www.oanda.com.

BOOKS AND SUPPLIES

For most programs, you will need textbooks and course materials. Some programs also require the purchase of supplies; for example, a lab coat or uniform, drafting tools, a stethoscope, or a hard hat and safety boots. Each full-time program description



published by BCIT includes an estimate of these costs. For the most recent information, find your program online at www.bcit.ca/study, and then scroll down to “books and supplies.”

COMPUTER NEEDS

Although it's not required, it is recommended that you have a personal computer capable of running the current version of MS Office, a web browser, and an e-mail program of your choice.

LIVING EXPENSES

Besides educational costs, you will have to cover your living costs while you attend BCIT. This includes accommodation; utilities (telephone, heat and light, ISP, cable); food and household supplies; transportation; laundry and clothing and leisure activities. The BCIT Student Housing website – www.bcit.ca/housing – contains valuable information about costs and on- and off-campus accommodation.

Paying for your Education

STUDENT FINANCIAL AID AND AWARDS ASSISTS FULL-TIME AND PART-TIME STUDENTS IN ACCESSING AND MANAGING EDUCATIONAL FINANCING RESOURCES, INCLUDING BCIT AWARDS PROGRAMS AND NEED-BASED FINANCIAL ASSISTANCE PROGRAMS. SEE WWW.BCIT.CA/FINAID FOR MORE INFORMATION.



Student Financial Aid and Awards can help answer your questions about part-time and full-time student assistance programs, government-sponsored student loans, BCIT tuition fee deferral and BCIT full-time student bursaries. They can also provide you with a budget-planning sheet specifically designed for BCIT students.

In some cases, a confidential appointment with a Financial Aid Advisor can be arranged to discuss your education financial plan, budget planning, emergency funding, student assistance problems and navigation of the government-subsidized student loan programs (applying, repayment and debt management).

BCIT awards programs are coordinated by Student Financial Aid and Awards. Contact the Student Financial Aid and Awards office for information on awards programs, including:

- **BCIT President's Entrance Awards:** Up to 60 awards (maximum \$3,000) are presented each year to students entering a full-time BCIT program directly from a B.C. secondary school; non-repayable. An application is required, and is available at www.bcit.ca/finaid.
- **BCIT In-term Scholarships, Graduating Awards and Achievement Awards:** Non-repayable; no application forms are required.

OTHER FINANCIAL ASSISTANCE SOURCES

External awards are scholarships, bursaries, and awards that are not administered by BCIT. You are responsible for inquiring and applying through the appropriate agency as indicated in the award description. In most cases, the awards are available to students from other institutions. Criteria and application procedures vary greatly and in some cases students must have a connection or affiliation to the donor organization. Start your research at www.bcit.ca/finaid/externalawards, www.studentawards.com and www.scholarshipscanada.com.

INFORMATION FOR INTERNATIONAL STUDENTS

International students are encouraged to contact their own government educational offices for information regarding student loans, scholarships and awards that are available to students studying abroad.

International students are not eligible for BCIT Entrance Awards, BCIT President's Entrance Awards, BCIT Full-time Student Bursaries or emergency funding through the Student Financial Aid and Awards office.

International students are eligible for BCIT In-term Scholarships, BCIT Graduating Awards and BCIT Achievement Awards.

No application is required from students for these BCIT awards.

Further information for international students is available at www.bcit.ca/international/students/services.

- **BCIT Entrance Awards:** Over 100 available annually; non-repayable. An application is required, and is available at www.bcit.ca/finaid.



Credential index

UNDERGRADUATE DEGREES

Accounting	20
Architectural Science	30
Bachelor of Business Administration ..	20
Biotechnology – joint Bachelor of Science (Honours, Co-op) with UBC	30
Computer Systems	26
Construction Management	31
Electronics	32
Environmental Engineering Technology	32
Environmental Health (Public Health Inspection)	41
Forensic Investigation	33
Geomatics/GIS	35
Management – Health Specialty	41
Management	22
Manufacturing	34
Medical Imaging	41
Nursing	42
Radiation Therapy	43
Specialty Nursing	43
Technology Management	23

POST-DIPLOMA AND ADVANCED STUDIES

Business Administration	21
CAD Programming	31
Clinical Genetics Technology	40
Diagnostic Medical Sonography	40
Geographic Information Systems	33
Human Resource Management	21

DIPLOMA PROGRAMS

Aircraft Maintenance Engineer Category 'E' (Avionics)	46
Aircraft Maintenance Engineer Category 'M' (Maintenance)	46
Airline and Flight Operations – Commercial Pilot	47
Airport Operations	20
Architectural and Building Engineering Technology	30
Auto Collision Refinishing Technician ..	47
Auto Collision Repair Technician	47
Automotive Service Technician	48
Automotive Service Technician (Ford ASSET Option)	48
Biomedical Engineering	40
Broadcast and Media Communications – Broadcast Journalism	20
Broadcast and Media Communications – Radio	20
Broadcast and Media Communications – Television	20

continued next page

Credential index, continued

DIPLOMA PROGRAMS, *continued*

Cardiology.....	40
Chemical Sciences Technology.....	31
Civil Engineering Technology	31
Computer and Business Equipment Technician.....	26
Computer Information Systems Technician.....	26
Computer Systems Technology.....	26
Electrical and Computer Engineering Technology.....	32
Electroneurophysiology Technology	41
Financial Management.....	21
First Mate, Intermediate Voyage	51
Food Technology.....	33
Geomatics Engineering Technology	33
Heating, Ventilation, Air Conditioning and Refrigeration (HVAC and R Technician).....	52
Human Resource Management.....	21
Industrial Instrumentation Service Technician	52
Industrial Maintenance Mechanic.....	53
Information Technology Management	22
Integrated Management Studies	22
International Trade and Transportation	22
Machinist/CNC Machinist.....	54
Marine Engineering.....	55
Marketing Management	22, 23
Mechanical Engineering Technology.....	34
Medical Laboratory Science.....	42
Medical Radiography Technology	42
Mining Technology	34
Nautical Sciences	56
Nuclear Medicine Technology	42
Occupational Health and Safety.....	43
Operations Management	23
Plastics Engineering Technology.....	35
Power and Process Engineering	35
Prosthetics and Orthotics	43
Renewable Resources – Fish, Wildlife and Recreation	35
Renewable Resources – Forest Ecosystem	35
Robotics and Automation	36
Technology Teacher Education	36
Telecommunications Technician.....	36
Tool and Die Technician	59
Wireless Communications Technician	36

APPRENTICESHIP PROGRAMS

(DIPLOMA OF TRADES TRAINING)

Automotive Technician	48
Automotive Technician Acura/Honda (AHAP).....	49
Automotive Technician GM (ASEP).....	49

Benchperson	49
Boilermaker	49
Carpentry.....	50
Circular Sawfiler	50
Commercial Transport.....	50
Electrical.....	51
Gasfitting	51
Glazing	51
Heat and Frost Insulator.....	52
Heavy Duty Mechanic	52
Inboard/Outboard Mechanic.....	52
Industrial Instrumentation	53
Ironworker	53
Joinery (Cabinetmaker)	54
Machinist.....	54
Millwright.....	56
Motorcycle Mechanic.....	56
Piledriver and Bridgeworker	56
Plumbing.....	57
Refrigeration	57
Saw Fitting.....	57
Sheet Metal.....	58
Steamfitting.....	58
Steel Fabrication	58
Welding	59

ASSOCIATE CERTIFICATES

AND CERTIFICATES

Aircraft Gas Turbine Technician.....	46
Aircraft Interior Technician	46
Aircraft Maintenance Engineer Category 'S' (Structures).....	46
Aircraft Mechanical Component Technician.....	47
Aircraft Structures Manufacturing Technician	47
Automated Woodworking Processes	47
Automotive Mechanic ELTT	48
Automotive Mechanic ELTT (Toyota T-TEP).....	48
Automotive Mechanic ELTT (Volkswagen).....	48
Biotechnology	30
Boilermaking ELTT	49
Business Management Studies.....	21
Bridge Watchman	49
Carpentry Framing and Forming.....	50
Commercial Transport Mechanic ELTT	50
Design Essentials	21
Diesel Engine Mechanic ELTT	51
Digital Animation.....	26
Drafting.....	50
Electricity and Industrial Electronics ELTT.....	51
Electronics Technician Common Core	32

Forest Resources Technician.....	33
Heavy Duty Mechanic ELTT.....	52
Inboard/Outboard Mechanic ELTT	52
Ironworking ELTT	53
Joinery (Cabinetmaker) ELTT.....	53
Machinist Core ELTT	54
Medical Laboratory Science – Professional Qualifying Program	42
Millwright ELTT	56
Motorcycle Mechanic ELTT	56
Network Administration and Security Professional (NASP).....	27
New Media Design CD ROM and Web Development	27
Piping ELTT	56
Power Engineering (General).....	35
Power Engineering (Technical)	35
Power Equipment Mechanic ELTT	57
Refrigeration Mechanic ELTT.....	57
Security Systems Technician	58
Sheet Metal Working ELTT.....	58
Steel Fabricating ELTT.....	58
Software Systems Developer (SSD)	27
Trades Discovery General	17
Trades Discovery for Women	17
Venture Program.....	23
Watchkeeping Mate Restricted (WKMR)	59
Welding (Levels A, B and C)	59

INDUSTRY PARTNERSHIP

CERTIFICATES

FilmFLEX Technology Professional.....	21
Office Administrator with Technology Program (OAT)	27
Technology Support Professional (TSP).....	27
Railway Conductor	57

STATEMENT OF

COMPLETION PROGRAMS

Degree Transfer in Science and Technology.....	17
Fresh Start (Trades Upgrading Program)	17
Marine Engineer First Class.....	54
Marine Engineer Fourth Class.....	55
Marine Engineer Second Class	54
Marine Engineer Third Class.....	54
Master 350 GT	55
Master Limited, over 60 GRT	55
Technology Entry.....	17



Aboriginal Programs and Services	13	Automotive Service Technician	48	Circular Sawfiler	50
Access and Transfer Programs	17	Automotive Service Technician (Ford ASSET Option)	48	Civil Engineering Technology	31
Accounting	20	Automotive Technician	48	Clinical Genetics Technology	40
Admissions Information	60-64	Automotive Technician Acura/Honda (AHAP)	49	Co-operative Education	8
Advanced Placement	64	Automotive Technician GM (ASEP)	49	Commercial Transport	50
Advisory Committees	5	Auto Collision Refinishing Technician	47	Commercial Transport Mechanic ELTT....	50
Aircraft Gas Turbine Technician	46	Auto Collision Repair Technician	47	Computer and Business Equipment Technician	26
Aircraft Interior Technician	46	Bachelor's Degrees	9, 69	Computer Information Systems Technician	26
Aircraft Maintenance Engineer Category 'E' (Avionics)	46	Bachelor of Business Administration	20	Computer Systems	26
Aircraft Maintenance Engineer Category 'M' (Maintenance)	46	BCIT Bookstore	13	Computer Systems Technology	26
Aircraft Maintenance Engineer Category 'S' (Structures)	46	BCIT Library	13	Computing and IT Programs	24-27
Aircraft Mechanical Component Technician	47	BCIT Student Association	13	Construction Management	31
Aircraft Structures Manufacturing Technician	47	Benchperson	49	Costs	67
Airline and Flight Operations – Commercial Pilot	47	Big Info	16	Counselling Services	13
Airport Operations	20	Biomedical Engineering	40	Credentials	9
Applied Education	6	Biotechnology	30	Credential Index	69
Applied Learning, what is?	7	Boilermaker	49	Degrees	9, 69
Applied Research	7	Boilermaking ELTT	49	Degree Transfer in Science and Technology	17
Apprenticeship	8, 44-59	Books and Supplies	67	Design Essentials	21
Architectural and Building Engineering Technology	30	Bridge Watchman	49	Diagnostic Medical Sonography	40
Architectural Science	30	Broadcast and Media Communications ..	20	Diesel Engine Mechanic ELTT	51
Associate Certificates	9, 70	Business Administration	20	Digital Animation	26
Automated Woodworking Processes	47	Business and Media Programs	18-23	Diplomas	9, 69
Automotive Mechanic ELTT	48	Business Management Studies	21	Disability Resource Centre	13
Automotive Mechanic ELTT (Toyota T-TEP)	48	CAD Programming	31	Distance Education	8
Automotive Mechanic ELTT (Volkswagen)	48	Campuses	12	Document Requirements	65
		Campus Tours	16	Drafting	50
		Cardiology	40	Electrical	51
		Career Planning	15	Electrical and Computer Engineering Technology	32
		Carpentry	50		
		Carpentry Framing and Forming	50		
		Chemicals	9, 70		
		Chemical Sciences Technology	31		

continued next page



INDEX, continued

Electricity and Industrial Electronics ELTT	51
Electroneurophysiology Technology	41
Electronics	32
Electronics Technician Common Core.....	32
Engineering, Applied and Natural Sciences Programs.....	28-36
English Language Proficiency Assessment.....	61-63
Environmental Engineering Technology...	32
Environmental Health (Public Health Inspection)	41
Facts	4, 37
Fees	67
FilmFLEX Technology Professional.....	21
Financial Assistance.....	68
Financial Management.....	21
First Mate, Intermediate Voyage	51
Food Technology.....	33
Forensic Investigation.....	33
Forest Resources Technician.....	33
Fresh Start (Trades Upgrading Program)	17
Full-time Studies	8
Gasfitting	51
Geographic Information Systems	33
Geomatics/GIS	35
Geomatics Engineering Technology	33
Glazing	51
Global Perspectives.....	11
Greater Vancouver	10
Harassment and Discrimination Advisor .	13
Health Sciences Programs	38-43
Heating, Ventilation, Air Conditioning and Refrigeration (HVAC and R Technician)..	52
Heat and Frost Insulator.....	52
Heavy Duty Mechanic	52
Heavy Duty Mechanic ELTT.....	52
Housing	13
How to Apply	65-66
Human Resource Management.....	21
Inboard/Outboard Mechanic.....	52
Industrial Instrumentation	53
Industrial Instrumentation Service Technician	52
Industrial Maintenance Mechanic.....	53
Information Sessions.....	16
Information Technology Management	22
Integrated Management Studies	22
International Applicants.....	66
International Credit Evaluation Service.....	64
International Student Information	11, 66
International Trade and Transportation.....	22

Ironworker	53
Ironworking ELTT	53
Joinery (Cabinetmaker)	53
Joinery (Cabinetmaker) ELTT.....	53
Machinist.....	54
Machinist/CNC Machinist.....	54
Machinist Core ELTT	54
Management.....	22
Management – Health Specialty	41
Manufacturing	34
Marine Engineering.....	55
Marine Engineer First Class.....	54
Marine Engineer Fourth Class.....	55
Marine Engineer Second Class	54
Marine Engineer Third Class.....	54
Marketing Management	22, 23
Master's Degrees	9
Master 350 GT.....	55
Master Limited, over 60 GRT.....	55
Mature Students	60
Mechanical Engineering Technology	34
Medical Imaging	41
Medical Laboratory Science.....	41, 42
Medical Radiography Technology	42
Medical Services.....	13
Millwright.....	56
Millwright ELTT	56
Mining Technology	34
Motorcycle Mechanic.....	56
Motorcycle Mechanic ELTT	56
myBCIT Card	13
Nautical Sciences	56
Network Administration and Security Professional (NASP).....	27
New Media Design CD ROM and Web Development.....	27
Nuclear Medicine Technology	42
Nursing.....	42
Occupational Health and Safety.....	43
Office Administrator with Technology	27
Open House.....	16
Operations Management	23
Part-time Studies	8, 17
Paying for your Education.....	68
Piledriver and Bridgeworker	56
Pilot.....	47
Piping ELTT	56
Plastics Engineering Technology.....	35
Plumbing.....	57
Polytechnic, what is?.....	3
Post-diploma.....	69
Power and Process Engineering	35
Power Engineering (General)	35
Power Engineering (Technical)	35

Power Equipment Mechanic ELTT	57
Priority of Student Selection.....	61
Prior Learning Assessment Recognition ..	64
Program Advising.....	16
Program Fees	67
Prosthetics and Orthotics	43
Radiation Therapy.....	43
Railway Conductor	57
Recreation	14
Refrigeration	57
Refrigeration Mechanic ELTT.....	57
Renewable Resources – Fish, Wildlife and Recreation.....	29
Renewable Resources – Forest Ecosystem	35
Residence.....	13
Robotics and Automation	36
Safety and Security	13
Saw Fitting	57
Security Systems Technician	58
Sheet Metal.....	58
Sheet Metal Working ELTT	58
Software Systems Developer (SSD)	27
Specialty Nursing	43
Specific Intakes.....	61
Steamfitting.....	58
Steel Fabricating ELTT.....	58
Steel Fabrication	58
Student Employment Services	13
Student Financial Aid and Awards	68
Student Housing	13
Student Life	14
Student Services and Organizations.....	13
Study Options	8
Technology Entry.....	17
Technology Management	23
Technology Support Professional (TSP) ..	27
Technology Teacher Education	36
Telecommunications Technician	36
Tool and Die Technician	59
Trades, Vocational and Apprenticeship Programs	44-59
Trades Discovery for Women	17
Trades Discovery General	17
Transfer Credits.....	64
Upgrading Options.....	17
Vancouver.....	10
Venture Program.....	23
Wait lists	61
Watchkeeping Mate Restricted (WKMR).....	59
Welding	59
Welding (Levels A, B and C)	59
Wireless Communications Technician	36



LEARN MORE ABOUT BCIT AND BCIT PROGRAMS.

BIG INFO SESSION AND PROGRAM EXPO

- Every program – all in one place. Held in October each year, this free session next happens from 5 p.m. to 8 p.m., Oct. 12, 2005, at the Burnaby Campus.

INFORMATION SESSIONS

- Learn more about the program(s) you're interested in. Held throughout the year. Visit www.bcit.ca/infosessions or call 604-434-1610 for details.

CAMPUS TOURS

- Get to know the Burnaby Campus. Visit www.bcit.ca/tours for details.

OPEN HOUSE

- Held in April of even-numbered years, this campus-wide event allows you an inside look at BCIT's labs and classrooms, and showcases student projects and program displays. BCIT's next Open House happens April 7–8, 2006.

PROGRAM ADVISING

- Program Advisors can answer your program- and admission-related questions. Call 604-434-1610 to book an in-person appointment or to leave your name and number for a return phone call, or contact them online at www.bcit.ca/askanadvisor.

WWW.BCIT.CA

- Provides a wealth of information about studying and living at BCIT.

INQUIRE BY MAIL

- Tear out, fill in, and mail the inquiry card found inside this book to request more information.

WANT YOUR SAY? WE WANT YOUR OPINION.

Tell us what you think about this Path Finder Program Guide and you could win a BCIT prize pack full of cool stuff. It only takes a few minutes, so go to www.bcit.ca/study/pathfindersurvey.shtml now.



*BRITISH COLUMBIA
INSTITUTE OF TECHNOLOGY
A POLYTECHNIC INSTITUTION*

**3700 WILLINGDON AVENUE
BURNABY, B.C.
V5G 3H2**

www.bcit.ca