

# BCIT



VIEWBOOK  
2014/15





“Our graduates shape British Columbia—by envisioning what is possible and doing what matters. I am inspired by their achievements every day.”

—CHRIS GOLDING, INTERIM PRESIDENT, BCIT



**AN INTENTIONAL EDUCATION** can make great things happen. When you choose BCIT, you are choosing to make an impact—in British Columbia, across Canada, and around the world.

## STUDY OPTIONS

At BCIT, you can work towards a credential by taking one course at a time, or complete an entire program in one go. Our various study options give you the choice.

### How do you want to learn?

**FULL TIME:** Studying full time is the quickest way to complete your credential. It means you'll attend classes approximately seven hours a day, five days a week. Once you are accepted into a full-time program, you are automatically registered for all of your courses, hassle free. [bcit.ca/study/options](http://bcit.ca/study/options)

**PART TIME:** Ideal for those who juggle other commitments like a job or a family, studying part time is a great option. While it will take you longer to complete a course or program, our evening or weekend classes give you the flexibility you need to balance your priorities. [bcit.ca/pts](http://bcit.ca/pts)

**CO-OPERATIVE EDUCATION:** For certain full-time programs, you can gain valuable work experience by alternating classroom terms with paid work terms through Co-op. You'll also end up making a network contact along the way. [bcit.ca/co-op](http://bcit.ca/co-op)

**APPRENTICESHIP:** The long-established system of apprenticeship includes short, scheduled periods of formal training, interspersed with extensive on-the-job training and paid work experience. You must be working for an employer and registered as an apprentice with the Industry Training Authority of BC. [bcit.ca/apprenticeship](http://bcit.ca/apprenticeship)

**ONLINE AND DISTANCE LEARNING:** Can't come to BCIT? Let us come to you. Choose a delivery mode that you prefer: correspondence, guided, or online learning. [bcit.ca/distance](http://bcit.ca/distance)

### Our credentials

A highly recognized education opens doors. We offer a number of credentials that will allow you to develop as leaders in your chosen field. [bcit.ca/study/credentials](http://bcit.ca/study/credentials)

- > Certificates
- > Diplomas
- > Associate Certificates
- > Bachelor's degrees
- > Master's degrees

**BCIT works.**

## OUR FACULTY

### Lending experience to education

Real-world experience is an integral part of a career-building education. That's why many of our faculty are current industry professionals, who practice what they teach. They provide an insider's perspective of their field, and are as passionate about their work as they are about sharing their expertise with students. To help you glean everything you can from our instructor-experts, we ensure our classes are small so that there is plenty of opportunity for those invaluable one-on-one interactions.

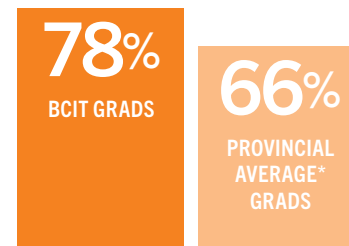


## BCIT GRADS ARE IN DEMAND

When you complete your BCIT credential, you will have the applied academics and hands-on experience that give you a competitive advantage. You'll join our network of alumni who are in demand and ready to work in their chosen field from day one.

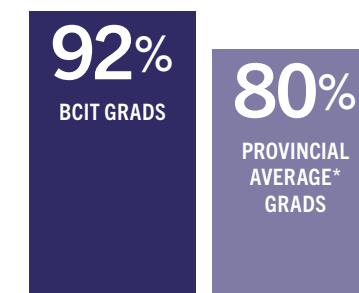
### DIPLOMA AND CERTIFICATE GRADS

Of those employed,  
% of diploma and certificate  
grads **currently working**  
in a training-related job:



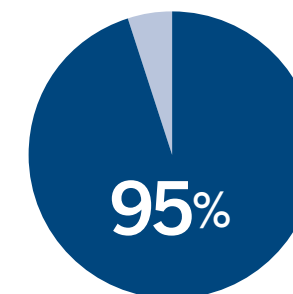
### DEGREE GRADS

Of those employed,  
% of degree grads  
**working in their field of study:**



### APPRENTICESHIP COMPLETERS

Of those employed



are **currently working**  
in their chosen trade.

[bcit.ca/works](http://bcit.ca/works)

Source: All graduate outcome statistics listed in this publication are from BC Student Outcomes Reports, prepared by BC Stats (three-year average: 2012, 2011, 2010). \*PSI (provincial) average = the average of all institutions (excluding BCIT) participating in the designated survey. PSI average for degree programs does not include the Research Universities (UBC, UBC-O, UNBC, SFU, and UVic).



## INDUSTRY CONNECTIONS

Making education work

Studying at BCIT means you benefit from our strong industry connections—ties that are cultivated to contribute to your success.

Each of our programs is developed in consultation with leading employers, including more than 1,800 industry professionals who sit on advisory committees to provide direct input into curriculum development. They work together to ensure you will be at the forefront of the latest developments of your chosen industry. It's our way of making sure you get a relevant education that industry demands.

As a student, you will have the opportunity to help solve real problems through industry-sponsored projects, practicum assignments, internships, or co-operative (work/study) training. You'll gain work experience as well as the chance to establish a relationship with potential employers and colleagues.

## SMART INVESTMENT

A two-year diploma gets you started on your career faster and for less money. BCIT diploma grads are ready to start their careers usually in just two years, half the time of a traditional four-year degree.

**\$12,120** Total average domestic tuition for a two-year diploma program (not including books and supplies)\*

BCIT offers different credentials allowing you to choose what works for your situation. You can, for example, choose to complete a diploma and then start working in your chosen field. Later, if you want to further your career, you can return to build on your diploma to complete your degree.

Our grads earn more. Within two years of graduation, a BCIT degree grad earns a higher average salary than a non-BCIT degree grad in British Columbia:

**\$62,400** Average salary of a BCIT degree grad

**\$48,000** Average salary of a non-BCIT degree grad

\*Based on 2013–2014 average full-time tuition for business, health, and engineering programs including U-Pass, ancillary, and student health plan fees. Program fees are subject to change. To access the most up-to-date fee schedules and information, visit [bcit.ca/admission/fees](http://bcit.ca/admission/fees)



**A SUCCESSFUL STUDENT EXPERIENCE** at BCIT goes beyond just taking classes. To make the time that you invest with us as stimulating and rewarding as possible, our student services ensure you get the most out of your education.

## BCIT LIBRARY

Need resources for your group project or a quiet place to study for exams? The BCIT Library can help when you need it. It offers in-person research assistance and multi-media support to enhance your studies. Borrow books, e-books, iPads, laptops, video recorders, videos, and DVDs. Search subject-specific databases for online articles and information. Or get some work done at Burnaby Campus' ehPod, a 60-workstation computer lab and set of study rooms (book them online) that are open 24/7 every day of the year. You can also take advantage of The Learning Commons, where you can benefit from free peer tutoring, study skills seminars, one-on-one writing support, and English conversation groups.



BCIT Library has locations at Burnaby Campus, Aerospace Campus, and Marine Campus.

[bcit.ca/library](http://bcit.ca/library)



## ABORIGINAL SERVICES

*Home away from home*

BCIT is committed to increasing the success of all Aboriginal students: Status, Non-Status, Métis, Inuit, and treaty ancestry. Our Aboriginal Services Department exists to build community, connect students, and provide support. Available services include peer-to-peer mentorship, scholarships and financial aid, special events, traditional sweat lodge ceremonies, as well as community referrals.

[bcit.ca/aboriginal](http://bcit.ca/aboriginal)

## UPGRADING YOUR ACADEMICS

Are you interested in one of our programs but lack a prerequisite or the required level of study? Whether you need to meet an English requirement or upgrade your level of math, physics, or biology, get up to speed and start pursuing your dream career with our programs and courses.

[bcit.ca/admission/upgrading](http://bcit.ca/admission/upgrading)



## STUDENT HEALTH SERVICES

If you're feeling under the weather or need health advice, see a doctor or registered nurse at our Burnaby Campus walk-in medical centre. This clinic, operated by Student Health Services, ensures students can get quality, timely, and convenient health services. You can also book consultations for physiotherapy and psychiatry.

[bcit.ca/healthservices](http://bcit.ca/healthservices)

## RECREATION SERVICES

Physical well-being is important to healthy student life. Take a break from hitting the books; try hitting the gym instead.

As a student, you have access to Recreation Services' full range of facilities including a weight room, a double gymnasium, squash courts, racquetball courts, tennis courts, a climbing wall, a track, and a multi-purpose studio. Join a team by participating in one of BCIT's many intramural sports leagues for basketball, dodgeball, floor hockey, ice hockey, soccer, and volleyball. If you like fitness classes or want to acquire a new skill, sign up for courses in kayaking, yoga, Pilates, and more. Or get out and explore our amazing region by renting equipment from Recreation Services.

[bcit.ca/recreation](http://bcit.ca/recreation)



Enhancing student life

As a BCIT student, you will spend a lot of time with us. The BCIT Student Association (BCITSA) exists to make that time rich and memorable. A non-profit organization, the student-governed association is dedicated to helping you get the most out of your time here. Through the BCITSA, you'll gain the opportunity to make new friends, socialize, be active, get support, and achieve balance.

Some of the services the association offers include:

- > Advocacy
- > Fitness and wellness
- > Awards and bursaries
- > Health and dental benefits
- > Childcare
- > Mentorship
- > Clubs
- > Peer tutoring
- > Events
- > *The Link* newspaper

Discover more about the BCITSA: [bcitsa.ca](http://bcitsa.ca)

## HOUSING

Will you need a place to live while studying at BCIT? Our Housing Department can help you find a convenient, affordable, and comfortable home away from home. Get info from on-campus housing and off-campus accommodation, including support for short-stay, apprenticeship, and international students. If you're looking for a place to share or if you already have accommodation and are looking for someone to share it with, the online BCIT Roommate Finder can start your search for you.

[bcit.ca/housing](http://bcit.ca/housing)





## STUDENT EMPLOYMENT SERVICES

*Find your opportunity*

Employers want to hire BCIT students and grads. Student Employment Services can assist you with finding the right job—from the annual Careers Fair event to resources including work-search seminars, a work-search coach that can help you with your resumé and cover letter, and handy tip sheets (downloadable from our web page) that you can check out at your convenience. When you're ready to look for a job, employment opportunities—temporary and permanent, full time or part time—can be found on our free online system, eJobs. Simply register online to post your resumé and start browsing jobs as soon as they come up, 24/7. You can even have job listings sent directly to your email address.

[bcit.ca/ses](http://bcit.ca/ses)

## DISABILITY RESOURCE CENTRE

The Disability Resource Centre helps students who face limits or barriers succeed at BCIT. Whether you're studying full time or part time, you can find support including note-taking, peer tutoring, alternate-format textbooks, interpreting or transcribing, and adaptive technology. If you are a student with a documented disability that significantly impacts your post-secondary education, had an Individual Education Plan in high school, are a client of a disability-related vocational program, or were registered with Disability Services at another institution, consider registering with the Disability Resource Centre to access our many services.

[bcit.ca/drc](http://bcit.ca/drc)



## COUNSELLING AND STUDENT DEVELOPMENT

Whether you're a part-time or full-time student, BCIT counsellors are here to help you sort through your personal concerns (like anxiety and depression), or work toward your educational, personal, or career goals. Students are welcome to book an appointment for free confidential and professional counselling or to attend a workshop offered by the Counselling and Student Development Department.

[bcit.ca/counselling](http://bcit.ca/counselling)



## BCIT alumni MAKING CONNECTIONS

Our grads ♥ BCIT. As alumni, they return to hire recent graduates, to share their industry experience as instructors, or to speak with prospective students at our info sessions. They also stay in touch with each other, building those important network contacts that will help grow their careers and maintaining friendships they developed in class.

Through many events and programs, the BCIT Alumni Association makes it possible for alumni (and you, as a future BCIT grad) to stay connected.

[bcit.ca/alumni](http://bcit.ca/alumni)

DISCOVER MORE ABOUT LIFE ON CAMPUS

[bcit.ca](http://bcit.ca)

# Applied Research @BCIT

INNOVATIVE SOLUTIONS THAT MAKE AN IMPACT

**APPLIED RESEARCH AT BCIT IS EXCITING.** It creates practical learning opportunities for BCIT's students, provides innovative solutions to industry challenges, and produces new, commercially relevant technology products and applications. Through directed studies and capstone projects, applied research is entrenched in every student's learning experience. Guided by our multidisciplinary team of researchers and faculty, these projects help pave the way for career success: students gain valuable hands-on experience while making key industry connections.

BCIT applied researchers and research groups have a 25-year history of working with industry clients, from independent entrepreneurs with a unique prototype idea to established companies and organizations developing new products and services.

Our grant-funded and industry-sponsored applied research projects make an impact. Read about two recent BCIT innovations.

### UNIQUE STUDENT-INVENTED MOTORCYCLE TRAILER WINS

Road trips will soon get easier, thanks to three creative Mechanical Engineering degree students. Aaron Hufsmith, Tariq Shobob, and Clayton McMunn designed and developed a single-wheel recreational trailer for motorcycles. The only one of its kind, the "Third Wheel" features a long frame that allows the user to haul large recreational items including bikes, surfboards, and kayaks or to attach a cargo box that can accommodate up to 200 lbs.

The students' design won the Applied Research category in the 2013 BCIT Student Innovation Challenge, an annual competition that encourages and supports BCIT students who have innovative ideas.

The trailer has also won first place in the 2013 Western Engineering Competition, and accolades at the 2013 Canadian Engineering Competition. The students hope to have the "Third Wheel" on the streets by summer 2015.

### LONGBOARD PERFORMANCE GETS BOOST FROM BCIT

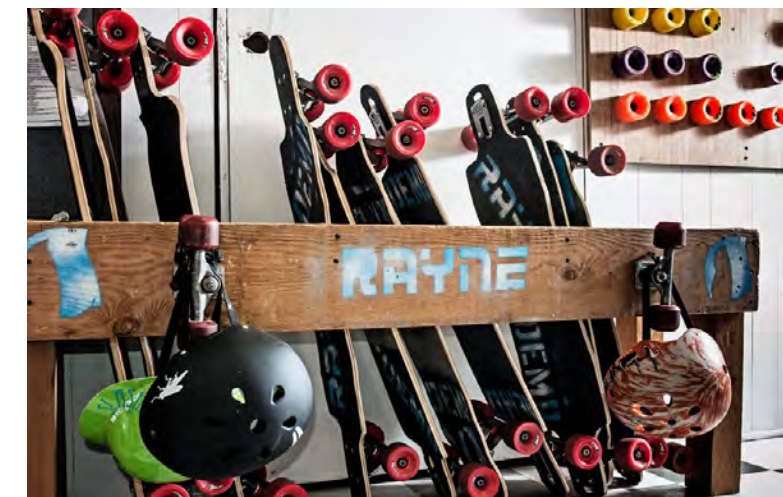
After developing its natural-fibre composite longboards and skateboards, Rayne Longboards was looking for a way to test the new products' performance and quality. With no testing equipment available on the marketplace, the North Vancouver-based company turned to BCIT's Product and Process Applied Research Team (PART) for help.

Researchers from PART worked with Rayne to develop a unique test bench that allows the company to simulate riders' movements in order to measure the boards' performance. The bench applies repeated

torsional (twisting) and bending stresses to the sample board for a specified duration. The findings of these tests give the longboarding manufacturer information that will result in consistent and durable construction. It also allows for safer board testing that can be conducted off the streets.

Julian Richter, a BCIT second-year CNC Machinist student, was fortunate to have participated in the project as part of his program's co-op component.

"I was involved in brainstorming and machined some of the components," he says. "The experience broadened my skills, including organization, design, and how to come up with an innovative solution to a problem." ●





# I AM environmentally driven

**For most, career success is measured by the mark they make in the world. But for sustainability advocate Lorina Keery, success means leaving no mark at all.**

**I**f all goes according to plan, you won't be bumping into Lorina Keery at the grocery store. That's because in five years, she hopes to be living as self-sufficiently as possible.

"I want to live off the land," explains Lorina. "I'd buy very minimal things...have a garden, chickens, and a farm. Sustainability is a lifestyle that is personally very fulfilling to me."

Her desire to live a green life isn't just about self-satisfaction though. "We are all at a place where we may be facing a dire situation in terms of resource use," she states. "If we don't look at more efficient ways of doing things, we will find ourselves in that place."

Resource consumption has become a growing concern around the world. Governments have set national targets to reduce greenhouse gas emissions and, increasingly, businesses are adopting more sustainable practices. Locally, many companies are analyzing how environmentally friendly their operations are, often hiring energy managers to help them. It's a smart move yielding efficiencies that can not only reduce environmental impact, but also add savings to the bottom line.

As the energy manager for Colliers International's Real Estate Management Services department in Canada, Lorina is integral to the company's commitment to sustainable practices. "I'm responsible for incorporating sustainability into the buildings we manage," she says. "For example, one of the things I'm looking at is incorporating energy, water, and waste management monitoring in all buildings so that we can see where we're at and better identify where we can improve."

Before she was hired at Colliers in early 2012, Lorina, a graduate of SFU's Bachelor of Science with a specialization in Environmental Biology, was looking for something more to help launch her career in energy management. When she heard about BCIT's Sustainable Energy Management Advanced Certificate (SEMAC) program, she knew she'd found what she needed.

"It was a full-circle program," she says. "I learned how to identify projects, understand technical aspects, and how to sell those projects. At BCIT, I learned how to translate energy management, which I have a passion for, into real business applications."

Whether it's reducing water consumption at work or harvesting kale from her own garden, Lorina's close connection to nature—influenced by her outdoorsy childhood in the Okanagan—is at the root of it all. And she is anxious to help give young children a similar connection to and sense of stewardship of Earth's natural resources.

"Growing up in cities, kids haven't been brought up close to nature, and I think that's so important because they're the next generation," she says. Currently, Lorina is a busy volunteer with The Edible Garden Project, where she teaches young children in North Vancouver to grow their own vegetables...and to maybe one day, live self-sufficiently. ●

**WORD OF ADVICE:** Be mindful of what you want to accomplish. Don't do something just because it is expected or others are doing it.

## IMPACT the world



# APPLIED AND NATURAL SCIENCES

**INNOVATION EXCITES YOU.** You have a mind for analysis, are a natural problem-solver, and possess a desire to make the world a better place. From sustainability to chemical sciences and biotechnology to forensics, BCIT's programs in Applied and Natural Sciences are designed to transform today's dreamers into tomorrow's world-changers.

The world needs leaders that are committed to finding new approaches to the complex issues that affect our way of life. Your credential in applied and natural sciences can help you improve lives, preserve the environment, and secure the future.

**85%** of employed Geographic Information Systems advanced diploma grads are currently working in training-related jobs

**\$65,750** average salary of employed Bachelor of Technology—Geomatics grads within two years of graduation

**99%** of Geomatics Engineering—Field Survey diploma grads are satisfied with their education

BCIT OFFERS NUMEROUS PROGRAMS IN APPLIED AND NATURAL SCIENCES. STUDY AREAS INCLUDE:

- > Chemical and Environmental Technology
- > Ecological Restoration
- > Environmental Engineering Technology
- > Environmental Health
- > Food Technology
- > Forensics
- > Geographic Information Systems
- > Geomatics
- > Mining and Mineral Exploration
- > Renewable Resources – Fish, Wildlife, and Recreation
- > Sustainable Resource Management
- > Sustainable Energy Management

For a full program list, requirements, and to apply online, visit: [bcit.ca/programs](http://bcit.ca/programs)

find your **IMPACT**  
[bcit.ca/appliedsciences](http://bcit.ca/appliedsciences)



# BUSINESS AND MEDIA

**YOU WANT MORE THAN THE STATUS QUO**—to challenge what's always been done, put your new ideas into action, and make your mark on the business world. For nearly 50 years, BCIT's Business and Media grads have been shaping the world around them, from financial management and marketing to operations management and new media.

Put your aspirations in business into action, and become a leader. Our Business and Media programs will give you the knowledge, skills, and experience that will take you from where you are, to where you want to be.

**100%** of Marketing Management—Professional Real Estate Option diploma grads rated their education as useful in performing their jobs

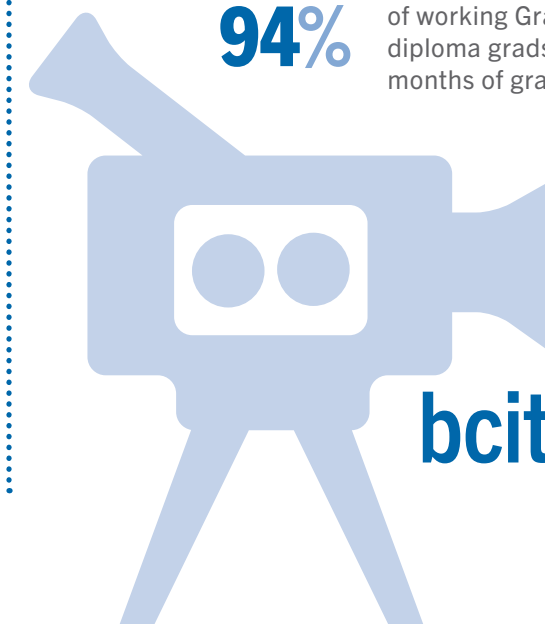
**\$60,000** average annual salary of employed Bachelor of Technology—Accounting grads within two years of graduation

**94%** of working Graphic Communications Technology diploma grads found employment within two months of graduation

BCIT OFFERS NUMEROUS PROGRAMS IN BUSINESS AND MEDIA. STUDY AREAS INCLUDE:

- > Accounting, Finance, and Insurance
- > Broadcast
- > Business Administration
- > Digital Arts
- > Human Resources
- > Management
- > Marketing
- > Technology Management

For a full program list, requirements, and to apply online, visit: [bcit.ca/programs](http://bcit.ca/programs)



find your **IMPACT**  
[bcit.ca/business](http://bcit.ca/business)





LINDSAY MOORE  
MARKETING MANAGEMENT (MARKETING COMMUNICATIONS OPTION), DIPLOMA OF TECHNOLOGY, 2011

# I AM proactive

Lindsay Moore doesn't wait for opportunity to knock. She just opens her own door.

**B**efore I started at the Canucks Autism Network, there was no position dedicated to fulfilling the marketing needs of the organization," Lindsay Moore says. So during her three-month internship at the organization, she took a leap of faith: "I pitched the need for an employee who would focus solely on marketing."

Her gutsy proposal worked. "The CEO responded by offering me the full-time position as marketing coordinator," she says.

That was 2011. Since then, Lindsay has been using her marketing skills and take-charge spirit to raise awareness of the Canucks Autism Network, a non-profit organization that provides sports, recreational, social, and employment-related programs for individuals and families living with autism in British Columbia.

A typical day at the office requires her to wear many hats, including writer, graphic designer, and event planner. Sometimes, she also accompanies autistic children who have accessed programs through the network, to fun day camps like an afternoon tumbling and juggling at Vancouver Circus School.

"I think this is a really important job," she says. "If there weren't marketers in the non-profit sector, families and individuals wouldn't even know organizations like ours exist."

Lindsay didn't always know that marketing would be her path. In fact, growing up, she had trained to be a dancer and was expecting to become a professional performer—at one point, working for Norwegian Cruise Lines as a choreographer. But she soon realized that performing has a short shelf life, and began searching for another career.

"At a young age, I always knew I wanted to help others," Lindsay recalls. "It comes from my dad who is a biologist. He's the most giving, selfless person I've ever met. I will always remember the stories of him saving ducks from oil spills and things like that. I just wanted to be the same...to have that giving attitude, to make a change."

Taking the best of both worlds, she decided that marketing in the non-profit sector was the right fit. It would give her the ability to combine the creativity that was the foundation for her dancing with her strong desire for helping others. In 2011, Lindsay graduated from BCIT's Marketing Management diploma program.

"I wanted to go in and do something that was fast, that enabled me to get all the same skills that I would get had I gone into a four-year program at a university," she says. "I knew that I could go to BCIT and get into the workforce right after graduation to get work experience." Lindsay plans on returning to BCIT to build on her diploma and complete the Bachelor of Business Administration while she works.

In the meantime, Lindsay continues to find ways to make an impact. Currently, she provides marketing expertise as a member of the board of directors for Theatre Terrific (a theatre group that brings artists of all abilities—with or without developmental, physical, or mental issues—together). For the future, she's thinking really big.

"One day, it would be amazing to start my own charity and provide something that isn't currently offered," she says. ●

## IMPACT your community

**WORD OF ADVICE:** Look for a post-secondary program that gives you a balance of education and experience.



# I AM

# creative

Whether he's playing street hockey for the food bank, or analyzing an opportunity for Overwaitea Food Group, Rashpal Ahluwalia knows how to stickhandle the possibilities.

In a scrappy game of street hockey on this hot afternoon, he hovers in his team's defensive zone, shifting from foot to foot and fingers twitching. The offense launches a slapshot right at him. He blocks the puck and, deking out player after player, powers it into the offensive zone. With a knowing nod, he makes a calculated pass to his teammate, who taps it in for a beauty of a five-hole goal.

The assisting defenseman is Rashpal Ahluwalia, and on this day, he is playing in an annual street hockey tournament organized by Five Hole for Food, a non-profit organization that raises donations and awareness for the food bank. He is a volunteer with the organization, devoting much of his time helping out with community relations. "I got started wanting to help the organization get partnerships with grocery stores across Canada," says Rashpal, who has since brought Save-On-Foods on as a partner.

In today's street hockey game, Rashpal's ability to assess a challenging situation and turn it into a winning opportunity gave his team the advantage. In his career, it's an asset.

First hired as a programmer, he is now a systems analyst at Overwaitea Food Group. He is part of a team that is responsible for identifying and integrating opportunities from both a technical and business perspective.

One of his recent projects involved opening a franchised Starbucks location in Overwaitea's Urban Fare at the Shangri-La tower. "Integrating a different business into our own comes with a lot of unknowns, such as how to align operations, reconciliation of finances, and bridging the different technologies the companies use," Rashpal explains. "I worked with the team here to see how we could best integrate Starbucks into our business. We ended up with solutions that leverage what we have today in ways we haven't done before. There wasn't a single answer to solve all the challenges, instead we worked through the various systems and tweaked things to work for us and Starbucks."

Rashpal says his BCIT training gave him relevant skills that he uses every day in his work. In 2005, he earned a Computer Systems Technology diploma and in 2013, a Bachelor of Business Administration. "BCIT taught me how to get things done, and gave me a way of thinking and discipline that I've carried throughout my career," he says.

Interested in computing as a child, he hadn't considered it as a possible career until his high school principal (Rashpal's first mentor) suggested it and helped guide him. That early experience influenced him to become a mentor in later years for BCIT's computing students.

"You can help somebody out so much by giving them your time—listening to them and understanding what they're about," says Rashpal, adding, "Returning to BCIT to instruct one day is on my list of things to do. It will be a full circle for me, to have been a student and now to be helping more students." ●

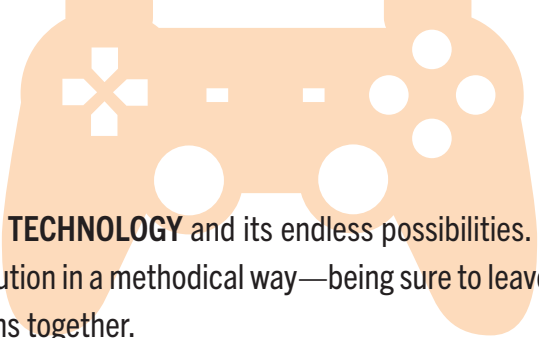
**WORD OF ADVICE:** Find a mentor. It gives you the opportunity to learn directly from someone in the field and helps you build industry connections.



RASHPAL AHLUWALIA  
COMPUTER SYSTEMS TECHNOLOGY, DIPLOMA OF TECHNOLOGY, 2005  
BACHELOR OF BUSINESS ADMINISTRATION, 2013

IMPACT  
your community





**YOU'RE FASCINATED WITH TECHNOLOGY** and its endless possibilities. When you are faced with a new challenge, you eagerly investigate a solution in a methodical way—being sure to leave no stone unturned. A career in computing can bring all of your strengths together.

BCIT's programs in Computing and Information Technology offer many fulfilling career options, including software development, networking, and database design. You'll get to do what you love in a fast-paced, innovative industry that values highly skilled, forward-thinking professionals.

# Computing AND Information Technology



**100%** of Software Systems Development—Web Designer certificate grads are satisfied with their education

**\$70,000** average salary of employed Bachelor of Technology—Computer Systems degree grads within two years of graduation

**93%** of employed Computer Systems—Information Systems diploma grads are currently working in a training-related job

BCIT OFFERS NUMEROUS PROGRAMS IN COMPUTING AND INFORMATION TECHNOLOGY. STUDY AREAS INCLUDE:

- > Computer Application Training
- > Computer Hardware
- > Database Technology
- > Networking and Security
- > Software Development
- > Technology Support
- > Web/Mobile Technologies

For a full program list, requirements, and to **apply online**, visit:  
[bcit.ca/programs](http://bcit.ca/programs)

find your **IMPACT**  
[bcit.ca/computing](http://bcit.ca/computing)

# ENGINEERING



**OFTEN WONDERING HOW SOMETHING WORKS**, you are insatiably curious. You thrive on the challenge of making things better and dream of realizing your own solutions.

From electrical engineering to construction management and electronics to mechanical engineering, BCIT's Engineering programs can help transform your affinity for solutions-based design into a career that lets you do what you love and make a difference. You will learn to conceptualize and implement designs for a wide range of industries, and become a key link in shaping the world, both today and tomorrow.

BCIT OFFERS NUMEROUS PROGRAMS IN ENGINEERING. STUDY AREAS INCLUDE:

- > Architectural Science and Building Technology
- > Building Science
- > Construction Management
- > Civil Engineering
- > Electrical and Computer Engineering Technology
- > Electrical Engineering
- > Electronics
- > Environmental Engineering Technology
- > Interior Design
- > Manufacturing
- > Mechatronics and Robotics
- > Mechanical Engineering
- > Power Engineering
- > Technology Teacher Education
- > Telecommunications
- > Wireless Communications

For a full program list, requirements, and to **apply online**, visit:  
[bcit.ca/programs](http://bcit.ca/programs)

**87%** of employed Power Engineering—Fourth Class certificate grads are currently working in a training-related job

**\$90,000** average salary of employed Bachelor of Technology—Construction Management grads within two years of graduation

**99%** of Civil Engineering Technology diploma grads say their education is useful in performing their jobs



find your **IMPACT**  
[bcit.ca/engineering](http://bcit.ca/engineering)



# I AM tenacious

From building bike jumps as a kid to designing parts for Deere-Hitachi Specialty Products as an engineer, Dave Sauve's tenacity is the underpinning for success.

**W**hen I'm coming up to the wall with a design and I think, 'I don't know if this is going to go,' I just keep fighting through it," Dave Sauve says. "I've always been determined that way but it's definitely a skill that was honed at BCIT."

Dave, a design engineer at construction machinery corporation Deere-Hitachi Specialty Products, graduated from BCIT's Mechanical Engineering degree program in 2012. He says the intense program was excellent preparation for what he would face as a new graduate entering the engineering workforce.

"The BCIT program put me under pressure, made me work hard," he recalls. "It was tough. I never worked harder."

Originally, Dave had enrolled in BCIT's Mechanical Engineering diploma program, with the intention of getting trained quickly and working right away. At the end of the two-year program however, Dave decided to continue studying at BCIT for two more years to earn the Mechanical Engineering bachelor's degree.

"I could have gone the university route," he says. "But in the end, I was really happy with my experience at BCIT. The small class sizes were great. I knew my teachers by name and they knew me by name. I ended up choosing to stay at BCIT and I think I made a pretty good decision."

As a student, Dave excelled. He was voted valedictorian for his graduating class and won the Association of Professional Engineers and Geoscientists of BC Achievement Award. His innovative student work can still be seen on BCIT's Burnaby Campus today. As part

of his program's student project, he, along with a fellow student, designed and installed a hydroelectricity-generating turbine in Guichon Creek.

Growing up, Dave says he loved creating things out of Lego and building structures like bike jumps and forts. As an adult, he says he can't stop rethinking things, wondering how things are made, and how they can be made better.

"I get excited about the creation process and seeing something go from a concept in someone's head or a sketch on a piece of paper to a finished product," he says.

At Deere-Hitachi, Dave is currently working on latch designs for the covers of the company's new construction machinery. His work day can include 3D modeling, verification calculations, and most notably, numerous design reviews, which he sees as a welcome challenge.

"In these design reviews, with each piece and at every stage of progress, you're put in front of 30 to 50 people, all asking you, 'Why did you do it this way?,' 'Why didn't you do it that way?," Dave explains. "It can be nerve-racking. But they are all valid questions and they help you discover things that you didn't know were there." ●

## IMPACT your career

**WORD OF ADVICE:** Study what interests you. Before you go to school, get out and work to see what you enjoy.



# I AM inquisitive

For Blair Gage, realizing big-picture goals always begins with exploring the details.

Seeing my mom have a hypoglycemic event where her blood sugar drops quite low and she's just not herself anymore... that definitely means we have to do better than the current state of care," says Blair Gage, whose mother has type 1 diabetes. "We can do better. The question is, 'How?'"

His deep personal connection with diabetes coupled with his natural curiosity make Blair perfectly suited for what he does. As a PhD student in Dr. Timothy Kieffer's lab at the University of British Columbia, he conducts diabetes research.

"The beta cell is a cell type that's key for diabetes," he explains. "It makes insulin that allows us to take glucose out of our bloodstream. Type 1 diabetics don't have enough of them. My graduate work is focused on figuring out how we can make more." He hopes that his research will help inform the ultimate goal: to cure diabetes.

Breakthroughs in medical research—like what Blair is working towards—take years of dedication.

What drives him to reach for success? Blair says it's a persistence that is born from a personal passion (his mom): "I can do the same experiment a thousand times if it's my question... If it matters to me, I always have the energy to go another round."

He wasn't always the picture of conscientiousness. Blair concedes he was a difficult and challenging young student, who would often be sent to sit at the back of the class. But one day in Grade 7, he was fortuitously placed behind a stack of microscopes. Instead of paying attention to English and French, he began examining

everything—from his finger to a pen—under the lens. He was fascinated, and from then on, science had his full attention.

"I knew that I wanted to do science, but I didn't have the connections or knowledge of what was even available," Blair says. While studying general sciences at a local post-secondary institution, he attended a career fair where he first learned about and was inspired to enroll in biotechnology studies at BCIT.

In 2008, he graduated from the Honours in Biotechnology Bachelor of Science program, a joint degree that combines the industry-focused laboratory training from BCIT with science theory from UBC.

"BCIT gave me the knowledge of how to do things. Its co-op work terms also connected me to people who also do these things," says Blair. As part of his Honours in Biotechnology program, he was able to spend an eight-month co-op term working with stem cells in Dr. Kieffer's lab, where he now spends full days as a researcher.

A few years down the road, Blair hopes to combine his love of research with teaching. "I love research and I love teaching," he says. "These two aspects make a wonderful package where you ask a question, get an answer, and then tell somebody." ●

**WORD OF ADVICE:** If you have questions about a career, ask someone who is doing it. They can give you current information that is realistic to that profession.



BLAIR GAGE  
HONOURS IN BIOTECHNOLOGY, BACHELOR OF SCIENCE, BCIT/UBC, 2008

## IMPACT the world



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# I AM ADVENTUROUS

After starting his own aerial survey company in 2012, Paul Gagnon is now navigating a career that's on an upward trajectory.

**I**t was one of the most incredible feelings...to sit there, actually pull back the wheel, and take off," says Paul Gagnon, recalling the first time he sat at the controls of a plane. It was his 13th birthday and his parents had surprised him with an instructor-escorted familiarization flight. That short 30-minute experience launched a lifelong love of flying and sense of adventure that have propelled Paul's soaring career.

Today, Paul is the proud owner of Peregrine Aerial Surveys Inc. (PASI), which he started in 2012. With a team of seven full-time employees, two Piper Chieftain twin-engine commuter planes, and a \$1.29 million high-tech camera, PASI provides aerial photography services to various clients. Flying as far as Manitoba and Alaska, Paul and his crew capture detailed images to help clients with mapping and measuring. Clients include organizations like BC Hydro that may need to identify where future hydro lines could be placed, or forestry companies that want to analyze forest growth.

For Paul, career success has been achieved by doing what impassions him. Even with the company's growing client base, intense work days, and thousands of logged flight hours, he is still giddy about the experiences that flying offers. "Every single job we do is different, taking us to some place different. We get to go through territory that nobody has set foot on."

While he earned his commercial pilot's license, Paul credits his previous education at BCIT with helping him connect the dots between his first flight at 13 years old and the company that he owns and operates 15 years later. In 2008, he completed the Aviation Maintenance Engineer (M) diploma program, where he says he acquired more than just the nuts and bolts of aircraft mechanics.

"The skills I learned at BCIT didn't just include the course material," emphasizes Paul, whose father also graduated from BCIT. "I also learned how to be a team leader and gained valuable knowledge about how the aviation industry works in Canada. My experience at BCIT has greatly influenced how I run my business."

Paul advises that students do their research if they're interested in a career in aviation: "If you want to be a pilot, go to a smaller airport and talk to a pilot. You can get a really good sense of what their experiences are like and if that's what you're interested in."

As for his own goals, Paul has his radar set beyond the horizon.

"I want to grow the company so that people can trust that we're going to be there for them when they need those photos," he says. "We have the capability and expertise to expand." Earlier this year, his company acquired an R44 helicopter that will kick off its new helicopter division. ●

## IMPACT your career

**WORD OF ADVICE:** Find out what you want to do, and do some research on it. Info sessions are a great place to start.



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Consistently ranked one of the world's top cities, Vancouver is lauded for its natural beauty, multicultural fabric, and big-city vibe. Travelers from around the world come to enjoy the city's outdoor activities over land and sea, and lively social and cultural offerings. Even with a population of about two million and its ranking as Canada's third-largest city, this coastal metropolis is widely regarded as a safe place in which to live.

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## APPLICATION AND ADMISSION

Once you have chosen the area that you want to study, the next step is to apply. To help you achieve success, BCIT establishes admission guidelines. Most programs require specific Grade 11 and Grade 12 courses.

### Requirements

Ensure your enrolment goes as smoothly as possible. Check that you meet BCIT's entrance requirements or course prerequisites. Our requirements vary depending on the type of program or course you've chosen. Find your program online to see the specific requirements or visit:

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## COSTS TO ATTEND

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- > whether you want to study full time or part time
- > the length of the program
- > your citizenship status (Canadian citizen or international student)

### Costs included in your tuition

**Service Fees:** For many campus and student services, such as your BCIT Student Association activity and BCIT ID card.

**BCITSA Student Health and Dental Plan:** Full-time, eligible students in technology, trades, or technical studies programs running for 16 weeks or longer are automatically covered by the BCITSA Student Health and Dental Plan. You may opt out if you're already covered for comparable extended health and dental benefits.

**Student Accident Insurance:** BCIT offers an insurance program that covers everything from a cracked tooth to a broken leg.

**Insurance Under Workers Compensation Board (WCB) of British Columbia:** Employers pay the WCB premium for all students participating in a required practicum at a recognized work site. Student apprentices are also covered during classroom, lab, and shop instruction.

### Other Costs

Aside from tuition, students are responsible for other study-related costs, including books and supplies, computer needs, and living expenses.

[bcit.ca/admission/fees](http://bcit.ca/admission/fees)

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