A guide for newcomers to British Columbia









Civil Engineers: Alternative Careers A guide for newcomers to British Columbia

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1. Civil Engineers: Alternative Careers

You may find that your international training and experience as a civil engineer are not immediately accepted in B.C. The analytical and math skills you have already acquired, along with your problem-solving and communication skills, can be used in alternative careers.

You may wish to get certified as either an Applied Science Technologist (AScT) or Certified Technician (CTech). You can also consider alternative careers in construction.

Alternative Careers

Civil Engineering Technologist / Technician [NOC 2021: 22300 / NOC 2016: 2231]

You assist civil engineers in the design and construction of buildings and other structures. You may work in structural engineering, municipal engineering, construction design and supervision, highways and transportation engineering, water resources engineering, geotechnical engineering, environmental protection or technical sales.

Requirements: Two to three year diploma program for technologists or one to two year program for technicians, PLUS two years of related work experience

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Certification:

- Applied Science Technologists & Technicians of British Columbia (ASTTBC)
 https://asttbc.org/
 - Application Process
 https://asttbc.org/applicants/application-process/
 Includes information for Internationally Trained professionals
- Free online self-assessment of your academic qualifications and working experience provided by Engineering Technology Canada https://www.engineeringtechnologycanada.ca/en/getting-started/whos-eligible/eligibility-quiz

Skills:

- aptitude for science, math and computers
- ability to draw conclusions from data and communicate technical information clearly
- precise and detailed work habits
- practical, hands-on approach
- good interpersonal and problem solving skills
- skills in organization and teamwork

Wages: median hourly wage \$34

Sources: https://www.workbc.ca/plan-career/explore-careers; www.asttbc.org

Cost Estimator / Construction Estimator

[NOC 2021: 22303 / NOC 2016: 2234]

You calculate construction project costs, and how long they will take to complete. You review building drawings and specifications, visit construction sites, and research current material prices.

Requirements:

 Although a diploma in civil or construction engineering is usually required, some positions may accept construction experience

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Certification with the Canadian Construction Association (https://www.cca-acc.com/workforce-excellence/gold-seal/) or the Quantity Surveyors of British Columbia (https://ciqs.org/) may be preferred by employers.

Skills:

- strong math, organization, analytical, writing and communication skills
- computer skills with estimating software and document management programs
- interest in planning, decision making, problem solving, working with people, and the financial aspect of construction

Wages: median hourly wage \$33.65

Source: https://www.workbc.ca/plan-career/explore-careers

Home & Property Inspector [NOC 2021: 22233 / NOC 2016: 2264]

You inspect buildings to identify and report on structural defects, and provide detailed reports on the condition of the property/house being inspected.

Requirements:

- You must be licensed through Consumer Protection BC
 https://www.consumerprotectionbc.ca/get-keep-licence/home-inspections/
- Additional information:

Home Inspectors Association BC https://hiabc.ca/

Skills:

- strong math, organization and analytical ability
- writing and communication skills
- computer skills
- decision making, problem solving, working with people in different trades and professions with many property interests

Wages: median hourly wage \$32

Source: https://www.workbc.ca/plan-career/explore-careers

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Construction Inspector [NOC 2021: 22233 / NOC 2016: 2264]

You inspect buildings, bridges, highways and construction sites to ensure that

specifications, building codes and safety regulations are observed

Requirements:

Building inspectors are required to complete the level 1 building inspector course,

endorsed by the **Building Officials' Association of BC**

https://boabc.org/how-to-become-a-building-or-plumbing-official/

post secondary education in construction, civil engineering or architectural

technology is usually required

several years of experience as a qualified tradesperson in a construction trade

such as plumbing, carpentry or electrical may also qualify you to work as a

construction inspector

Skills:

knowledge of construction techniques, building codes and standards

well organized and analytical

ability to communicate information clearly and precisely

good mathematical skills.

Wages: median hourly wage \$32

Source: https://www.workbc.ca/plan-career/explore-careers

2. Employment Outlook

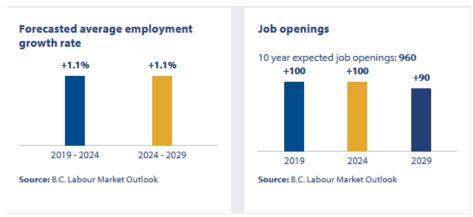
Civil Engineering Technologists & Technicians

While most civil technology jobs are found in mid- to large-size cities, jobs in rural

areas are available in government departments, transportation, and with consulting

firms. Opportunities will be available in both the private sector and government.

Job Openings Outlook in BC

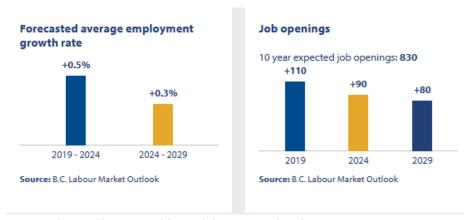


Source: https://www.workbc.ca/plan-career/explore-careers

Construction Estimators:

The Construction industry is tied to the economy. When the economy is booming, typically construction activity follows and vice versa.

Job Openings Outlook in BC

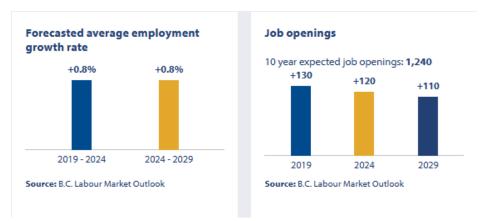


Source: https://www.workbc.ca/plan-career/explore-careers

Construction and Home Inspectors:

Employment demand for construction inspectors is largely driven by the construction industry. Building inspection services for prospective home buyers is a growing source of employment.

Job Openings Outlook in BC



Source: https://www.workbc.ca/plan-career/explore-careers

3. Retraining

You may want to consider upgrading your skills to increase your employment options in this field. The following courses may improve your current skill set:

Engineers Canada has extensive information for internationally trained engineers at **Engineer Here**

https://engineerhere.ca/

Introduction to Construction Inspection

Public Works Association of B.C. (PWABC) comprehensive construction inspection three day workshop https://pwabc.ca/training-and-events/our-courses/

House Inspection - BCIT

Part-time certificate program. Completion of all courses can lead to certification as Certified House Inspector (CHI) through Applied Science Technologists and Technicians of BC (ASTTBC) https://www.bcit.ca/programs/house-inspection-statement-of-completion-part-time-0700000000/

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4. Searching for Jobs

Construction Job Centre

https://www.constructionjobcentre.ca/

T-Net British Columbia: BC Technology Job Search

https://www.bctechnology.com/jobs/search.cfm

TechJobs.ca

https://www.techjobs.ca/en/

Indeed.ca

https://ca.indeed.com/

Talent.com

https://ca.talent.com/

5. Volunteering in the Field

Volunteering can help you to explore a new career and learn more about engineering and technical work in B.C. You will meet new people and build a network of contacts that may lead to information on job openings and an inside connection at a potential employer.

Go Volunteer

https://govolunteer.ca/

Volunteer BC

https://volunteerbc.bc.ca/

Engineers & Geoscientists British Columbia Volunteer Opportunities

https://www.egbc.ca/About/About-Us/Volunteer

6. Helpful Resources

Applied Science Technologists & Technicians of BC (ASTTBC)

https://asttbc.org/

British Columbia Construction Association

https://bccassn.com/

Home Inspectors Association B.C.

https://hiabc.ca/

Vancouver Regional Construction Association

https://www.vrca.ca/

STEP Skilled Trades Employment Program

https://www.stepbc.ca/

Fastest Growing Industries: Construction

https://www.vpl.ca/siic/quide/industry-profiles/fastest-growing-industries-construction

Skilled Immigrant InfoCentre 'Job Search Resources' for help on:

- Writing Resumes and Cover Letters
- Getting Canadian Work Experience
- Networking for Employment
- Online Social Networks
- Workplace Culture

Questions? Please ask the Information Staff in the Central Library, Vancouver Public Library or telephone 604-331-3603.

Please note that the information in this guide is also available online through the Skilled Immigrant InfoCentre website at https://www.vpl.ca/siic.



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