

# Specializations for Technicians and Technologists

## CONSIDER THESE CAREERS IF YOU LIKE...

- Science and math
- Hands-on work
- Problem solving
- Outdoor work
- Work in many locations

## A TECHNICAL SPECIALIST IS...

Someone who is certified as a technician or technologist and has a lot of work experience. They decide to get additional training so they can get a special certificate as a Technical Specialist. They often have multiple levels of post-secondary training.

## TECHNICAL SPECIALIST CAREERS



### BUILDING DESIGNERS

Create plans for many types of buildings, including homes, schools, shops, and office buildings.



### PUBLIC WORKS INSPECTORS

Determine what is needed to keep public services working well. Includes public buildings, roads, bridges, and water supply.



### SITE IMPROVEMENTS SURVEYORS

Measure pieces of land to determine the best place for buildings, highways, or other structures to be built.



### STEEL DETAILERS

Plan the structural steel needed to build bridges and buildings using 2D and 3D modeling software.

## EDUCATION REQUIREMENTS

### HIGH SCHOOL

- Gr 11 & 12 Mathematics
- Gr 11 & 12 English
- Gr 11 Chemistry\*
- Gr 12 Physics\*

\* Requirements vary by field

### POST-SECONDARY

- 1-2 years post-secondary education to become a technician or technologist (see our other white paper on this!)
- Work in your field long enough to gain a high level of expertise within a defined area
- Apply to get a Special Certification to become a Technical Specialist

NOTE: Program admissions vary by school. Check with your advisor for specific requirements.

## MORE RESOURCES

### ARCHITECTURAL INSTITUTE OF BC

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

### ASSOCIATION OF BC LAND SURVEYORS

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

### BC COMMON GROUND ALLIANCE

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

### CANADIAN INSTITUTE OF STEEL CONSTRUCTION

[cisc-icca.ca](http://cisc-icca.ca)



**CHECK OUT THE TECHNICIAN AND  
TECHNOLOGISTS PAPER TOO!**

[www.wwest.ca/whitepapers](http://www.wwest.ca/whitepapers)

## ABOUT WWEST

Westcoast Women in Engineering, Science and Technology (WWest) is the operating name for the 2015-2020 NSERC Chair for Women in Science and Engineering (CWSE), BC and Yukon Region. Our mission is to engage industry, the community and students to increase the awareness and participation of women and other under-represented groups in Science, Technology, Engineering, and Mathematics (STEM) fields of study and careers. WWest works regionally and, in conjunction with the other CWSE Chairs, nationally on policy, research, advocacy, facilitation, and pilot programs that support women in science and engineering.

### Chairholder: Dr. Lesley Shannon

Dr. Lesley Shannon P.Eng is a Professor and Chair for the Computer Engineering Option in the School of Engineering Science at Simon Fraser University. Dr. Shannon studies computer systems design. She works in a rapidly growing field that combines custom computing hardware and software to design and implement application-specific computer systems for applications in a wide range of areas including robotics, machine learning, aerospace and biomedical systems, multimedia applications, and cloud computing.



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[Westcoast Women in Engineering,  
Science, and Technology](http://www.wwest.ca)

The Applied Science Technologists and Technicians of British Columbia (ASTTBC) is the provincial regulatory body responsible for advancing regulation, certification and recognition for applied science technologists, technicians and technical specialists in BC and the Yukon. ASTTBC is committed to protecting public interest and safety by ensuring its registrants contribute to a secure, healthy and sustainable society and environment. ASTTBC collaborated with WWest on this publication as part of the Advancing Women in Engineering and Technology Project, a Sector Labour Market Partnership project, funded through the Canada-BC Workforce Development Agreement.

 Canada

 BRITISH  
COLUMBIA

Funding provided through the Canada-British Columbia  
Labour Market Development Agreement.

For more information: [asttbc.org](http://asttbc.org)



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