

# What is Engineering?

environmental protection policies | construction management | advanced composite materials | process improvements | biomedical device design | human-robot interaction | water and sanitation | workplace safety | food supply improvements | technology development | green buildings | lean manufacturing | primary resource industry | communications networks | chemical process scaling for efficiency | machine learning | renewable energy | research and innovation

## What is Engineering?

Applying science in everyday life.

## ENGINEERING:

a [ creative  
engaging  
rewarding ] profession where **people**

[ solve problems  
design solutions  
help local & global communities  
and **love what they do** ]

### With a Bachelor's Degree in Engineering...

Graduates are **industry-ready & hireable.**



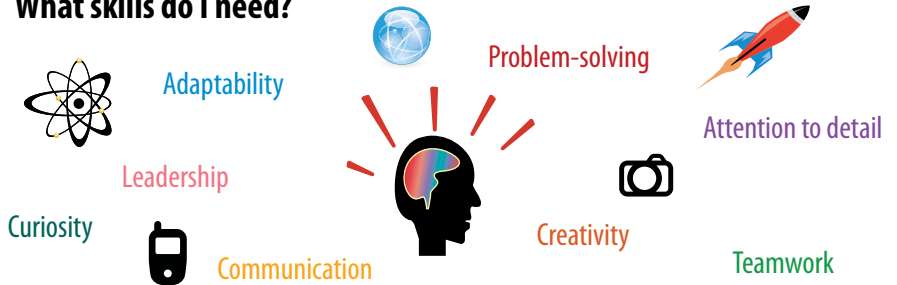
Median entry-level salary in B.C.: **\$57,141<sup>1</sup>**

Median engineering base salary in B.C.: **\$87,000<sup>1</sup>**



**95,000+** jobs will be available by the end of 2020 due to retiring engineers.<sup>2</sup>

### What skills do I need?



### Working Climate

Engineers work in...



urban centres,



rural communities,



& around the world.

They can work in the field, in the office, or both.



The Washington Accord allows mobility for P.Engs among 10 countries.

### Learn more

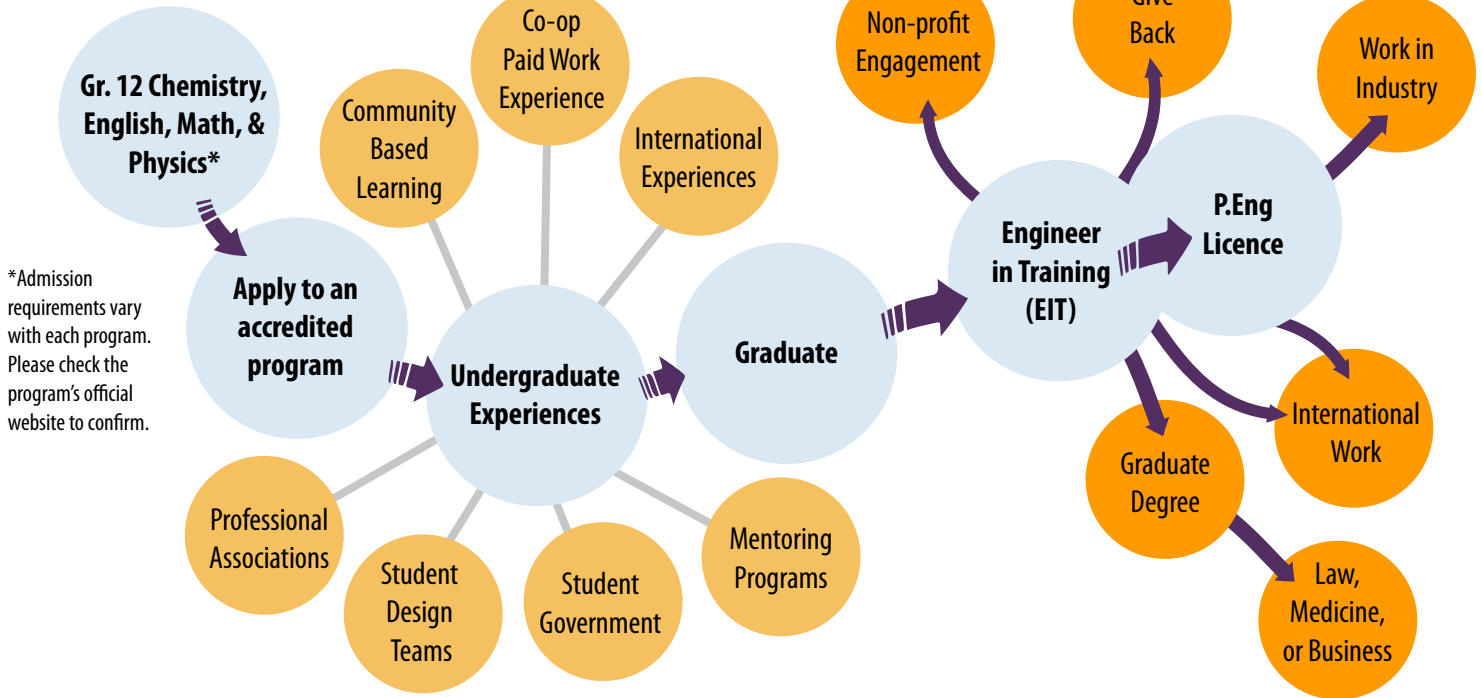
[www.engineeryourlife.org/](http://www.engineeryourlife.org/)

[www.egfi-k12.org/](http://www.egfi-k12.org/)

[www.apeg.bc.ca/For-Students/High-School-Students](http://www.apeg.bc.ca/For-Students/High-School-Students)

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

## Next Steps to Becoming an Engineer...



\*Admission requirements vary with each program. Please check the program's official website to confirm.

## Check out these videos from WISEatlantic to learn more about engineering careers:



<http://youtu.be/JqBLHsNAhBI>



<http://youtu.be/dGPP5rHn8ko>



<http://youtu.be/Za1JOqYBF-Q>



<http://youtu.be/oW2xTH-Z4mE>

More videos available at:  
[www.WISEatlantic.ca/Videos.asp](http://www.WISEatlantic.ca/Videos.asp)

## This Could Be You

**AJung Moon**

Photo by: Martin Dee, UBC

"I design nonverbal communication cues like hand gestures and gaze for robots so that they can collaborate with people better."

"Working in oil and gas - one of Canada's largest economies - leads to a lot of amazing opportunities."

**Kristy Meents**

**Belinda Li**

"Engineering has helped me think creatively to work on solving complex global problems, like making sure people have reliable and sustainable access to safe drinking water."

"As a Building Envelope Engineer, every day we are challenged to investigate and solve existing issues in buildings and design and construct better performing and longer lasting buildings."

**Hillary Kernahan**

## References

1. Association of Professional Engineers and Geoscientists of BC. (2012). Report on members' compensation and benefits. Retrieved from: <https://www.apeng.bc.ca/Careers/Compensation-Survey>
2. Engineers Canada. (2012). The engineering labour market in Canada: Projections to 2020. Retrieved from: <http://www.engineerscanada.ca/labour-market-report>