

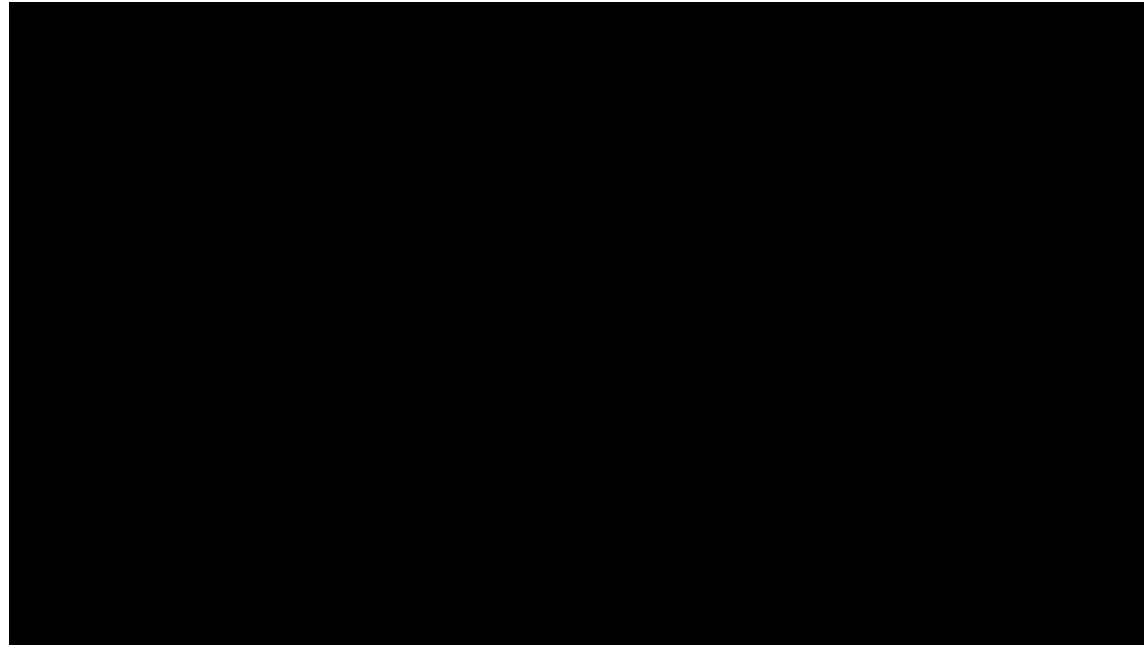
# Mineral Exploration and Mining Info Session



The British Columbia Institute of Technology acknowledges that our campuses are located on the unceded traditional territories of the Coast Salish Nations of **Sk̓wx̓wú7mesh** [Squamish], **səl̓ilwətaʔ** [Tsleil-Waututh], and **xwməθkwəy̓əm** [Musqueam].

# Why would I want to work in the Mineral Exploration and Mining industry?

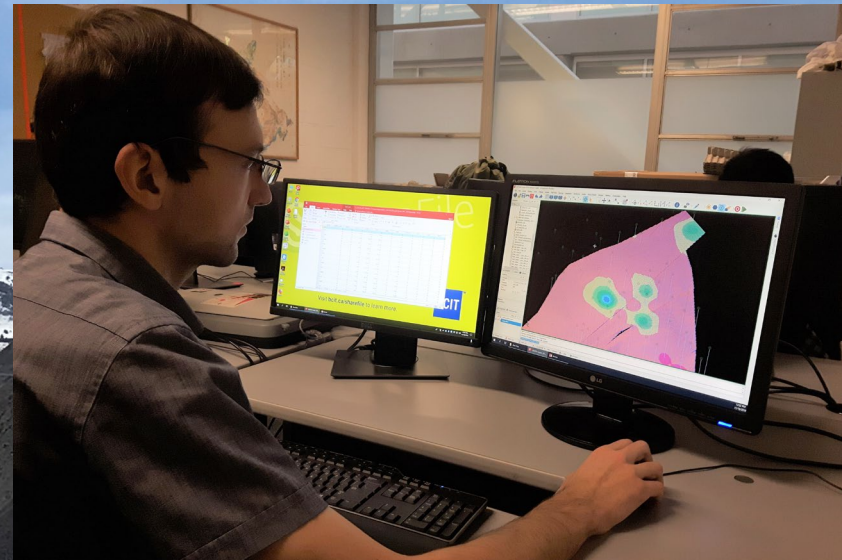
# Mineral Exploration and Mining video



# You enjoy the outdoors



Are tech savvy



# Looking for variety



# Want to work abroad



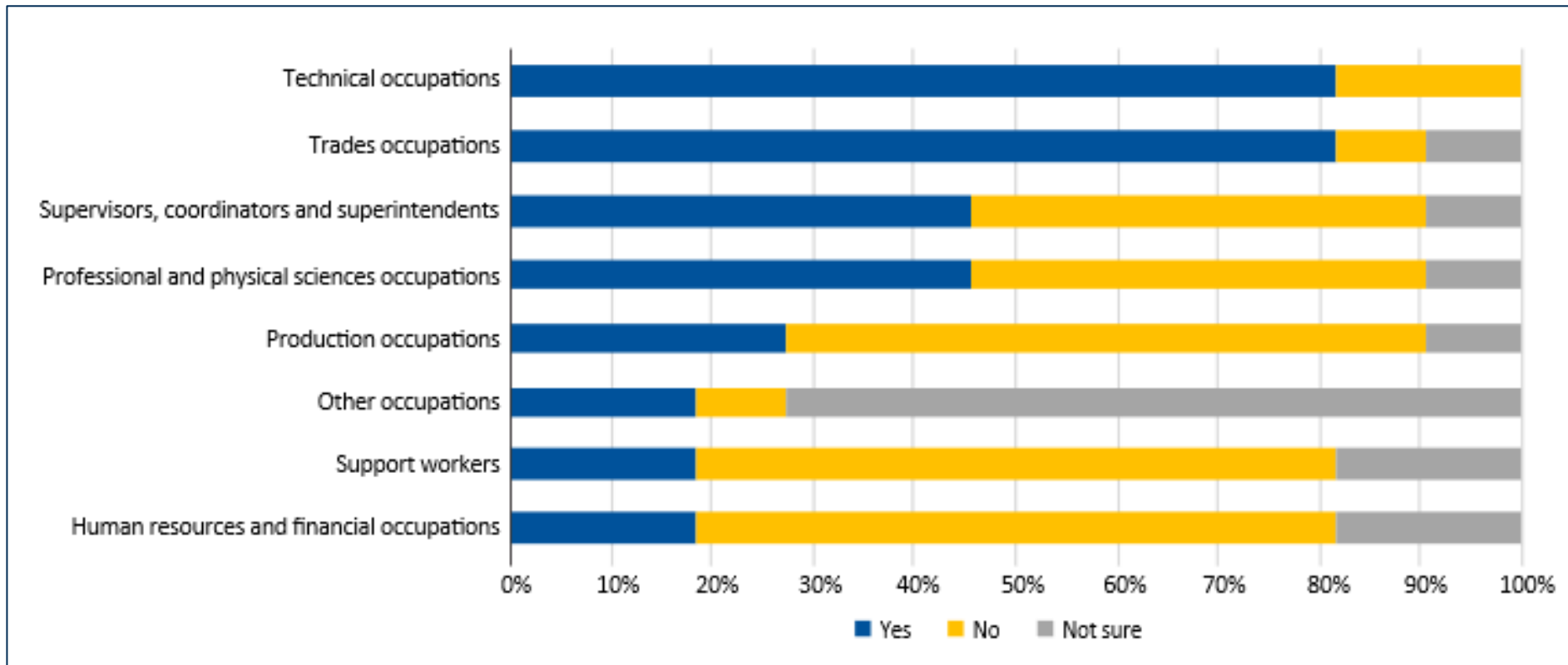
# Or stay close to home

Vancouver is home to the world's largest cluster of junior exploration companies



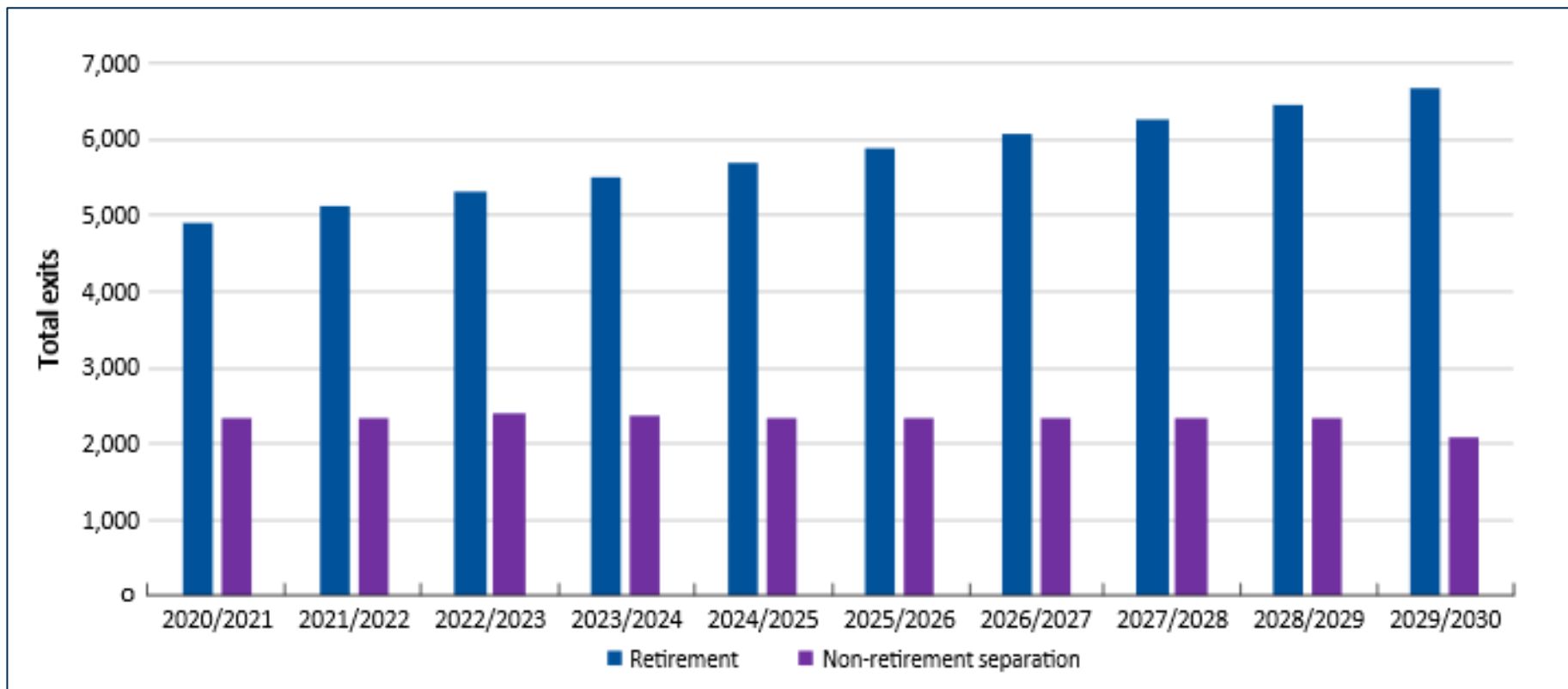
# Job security

Mining organization hiring difficulties over past 12 months:



# Job security

Forecast of Annual Workforce Exits from Mining Industry, Baseline Scenario (2020-2030)



BRITISH COLUMBIA

Source: Mining Industry Human Resources Council, Statistics Canada (System of National Accounts, 2016 Census), 2019

# Job security

**Australian Mining Industry Facing Significant Recruitment Challenges, Says Techforce**

AZOMining, January 30, 2023

**Industry Experts Reveal Most Searched Jobs in the Mining Industry**

GlobeNewswire, January 22, 2023

**US worker shortage dents Freeport-McMoRan's copper output**

Mining.com, January 25, 2023

**Mining engineer skills shortage is imminent – report**

[CSG Talent](#) | March 10, 2021 | 11:47 am [Careers](#)

Mining.com, March 10, 2021

**Mining schools in Timmins, Sudbury, say industry facing workforce shortage**

CTV News Northern Ontario, September 3, 2020

**Futureproofing education for mining**

Mining Journal,  
Sept. 11, 2019

There is ample evidence to suggest the mining industry is starting to feel a labour shortage across various functions and in many countries where mining has traditionally played an important economic role.

# Mineral Exploration and Mining

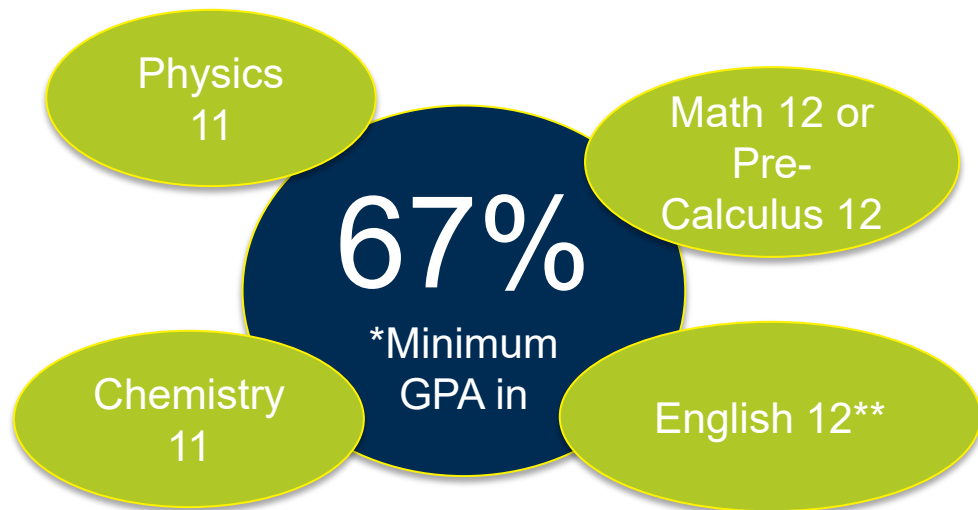
Mineral Exploration  
and Mining  
Technology Diploma  
(2 years)

Mining and Mineral  
Resource  
Engineering Degree  
(4 years)

# Entry Requirements

## Level 1 Diploma

Capacity: 46 students



## Level 3 Degree

Capacity: 20 students



<sup>t</sup>: and no course failures

\* Two years of education in English in an English-speaking country

\*\*or 3 credits of post-secondary English, Humanities or Social Sciences from a recognized institution

# Tech Entry

Missing a prerequisite, or need to upgrade?

→ 15 weeks, full-time, day program

→ Courses: MATH, PHYS, CHEM, COMM, COMP

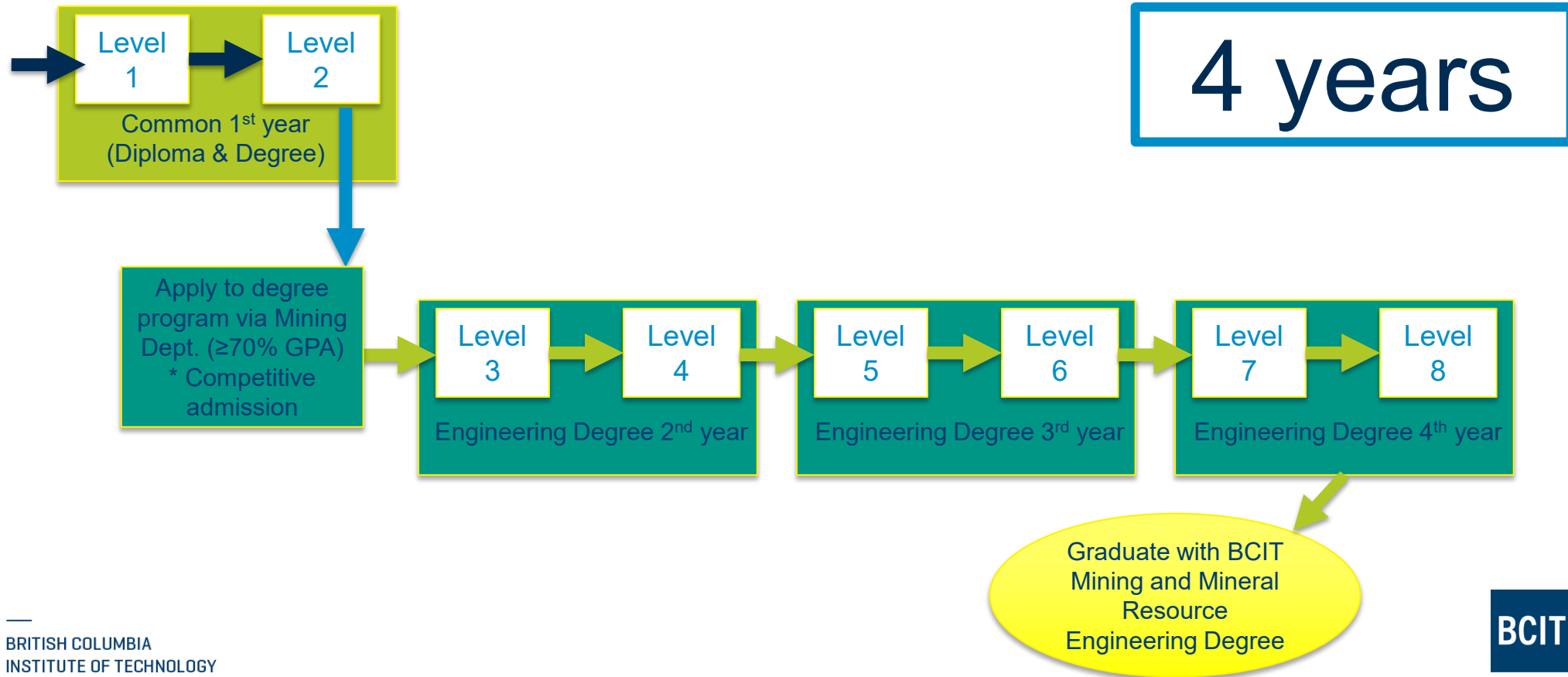
→ Burnaby campus

More info: <https://www.bcit.ca/study/programs/0020nobcit#overview>

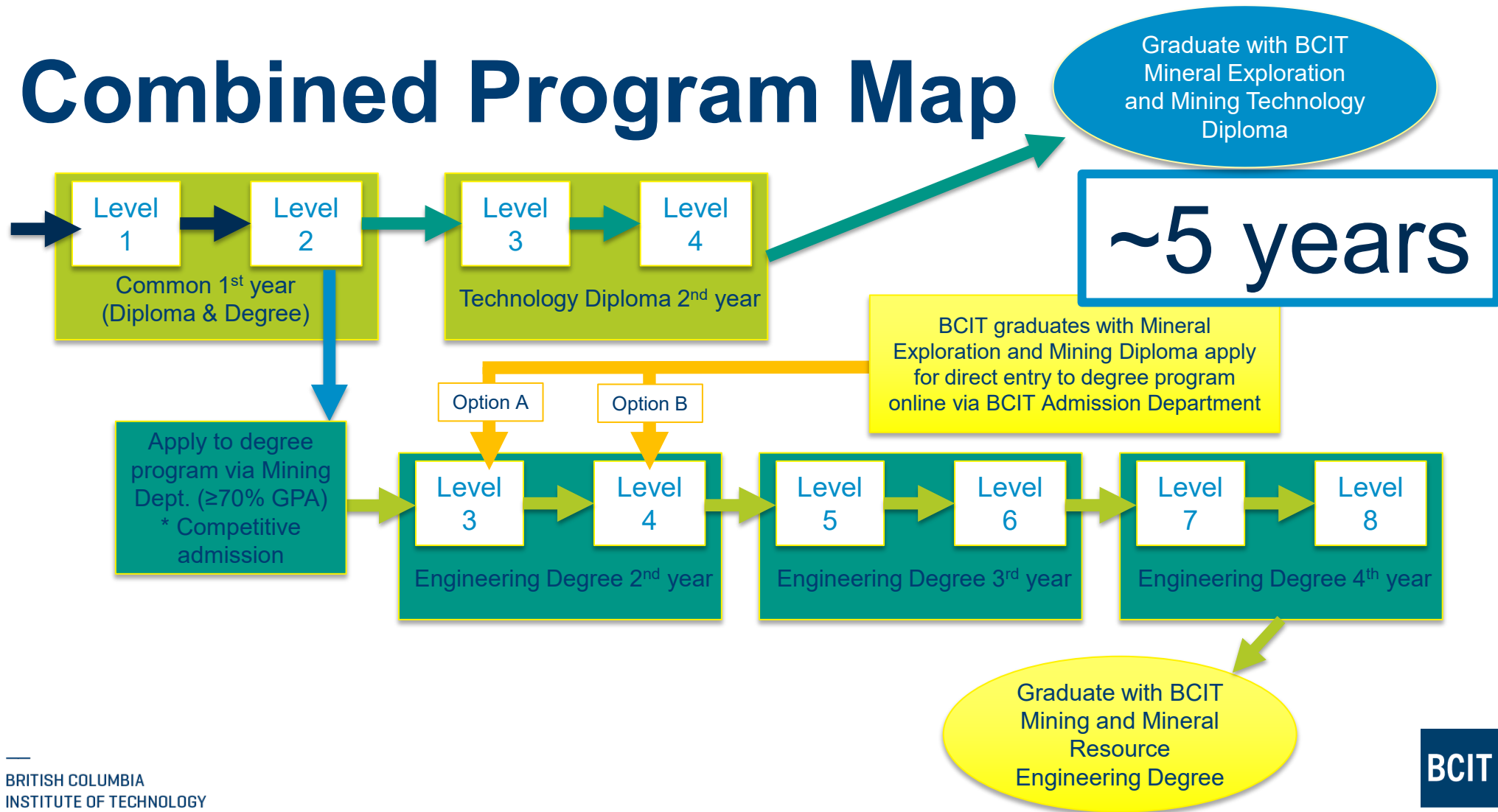
# Diploma Program



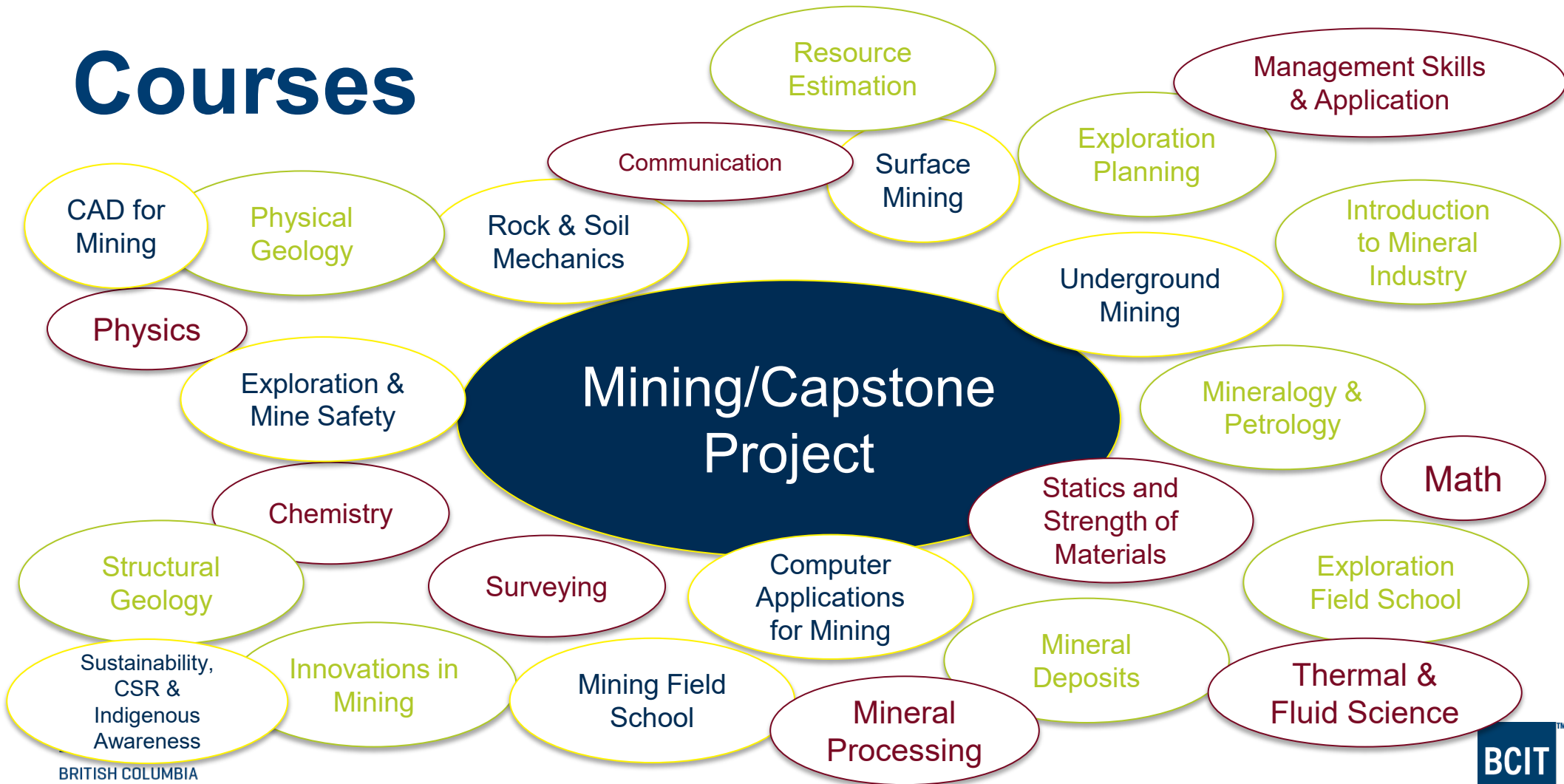
# Degree Program



# Combined Program Map



# Courses



# Faculty – Industry Experts

>140 Years Collective Industry Experience in:



# Field Trips

Take the classroom to the field

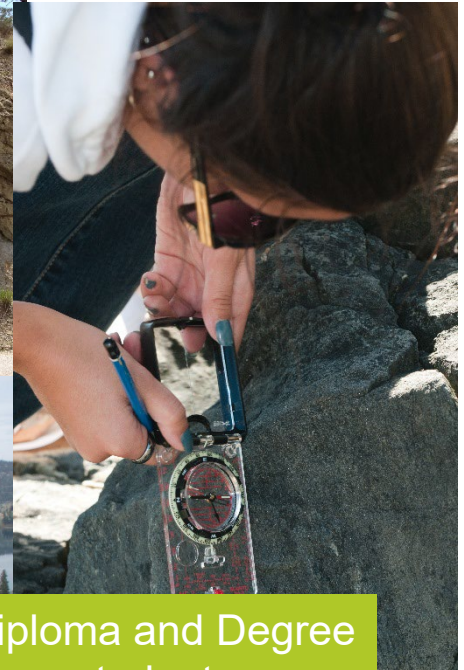


It's not all books and whiteboards!



# Exploration Field School

Hands-on, applied  
experience



Diploma and Degree  
students:  
Exploration Field  
School in SW BC

# Mining Field School



# Canadian Mining Games



Presented by:



# Professional Designation

## Technology Diploma graduates:

- ASTTBC (Applied Science Technologists and Technicians of British Columbia)
- Professional Technologist (Ptech)

## Engineering Degree graduates:

- EGBC (Engineers and Geoscientists of British Columbia)
- Professional Engineer (P. Eng)
- Accreditation received June 2019

# Career Options

## Technology Diploma Graduates:

- Assay Lab Technicians
- Mineral Exploration
- Mine Operation Technologists:
  - Ventilation
  - Surveying
  - Blasting
  - Mineral Processing
  - Environmental
- Supplies Sales and Support
- Engineering Consultancy
- Operations Supervision

## Engineering Degree Graduates:

- Mine Operations:
  - Mine Planning
  - Management
  - Business Planning
  - Mine Reclamation
- Project Evaluation
- Feasibility Studies
- Consulting

# Let's talk money

Assayer  
\$30,000-80,000/year

Environmental Technician  
\$49,000-54,000/year<sup>1</sup>

Engineering Technologist  
\$60,000-80,000/year

Geological Technician  
\$53,000-66,000/year

Land Surveyor  
\$51,000-80,000/year

Mine Engineer  
\$66,000-125,000/year

Mine Superintendent  
\$113,000-205,000/year

Mine Supervisor  
\$74,000-110,000/year

Engineer-in-Training, Tailings<sup>2</sup>  
\$102,000+/year

Drill & Blast Foreman<sup>2</sup>  
\$123,000/year

Engineering Consultant<sup>1</sup>  
\$40,000-130,000/year

# Supporting our Students

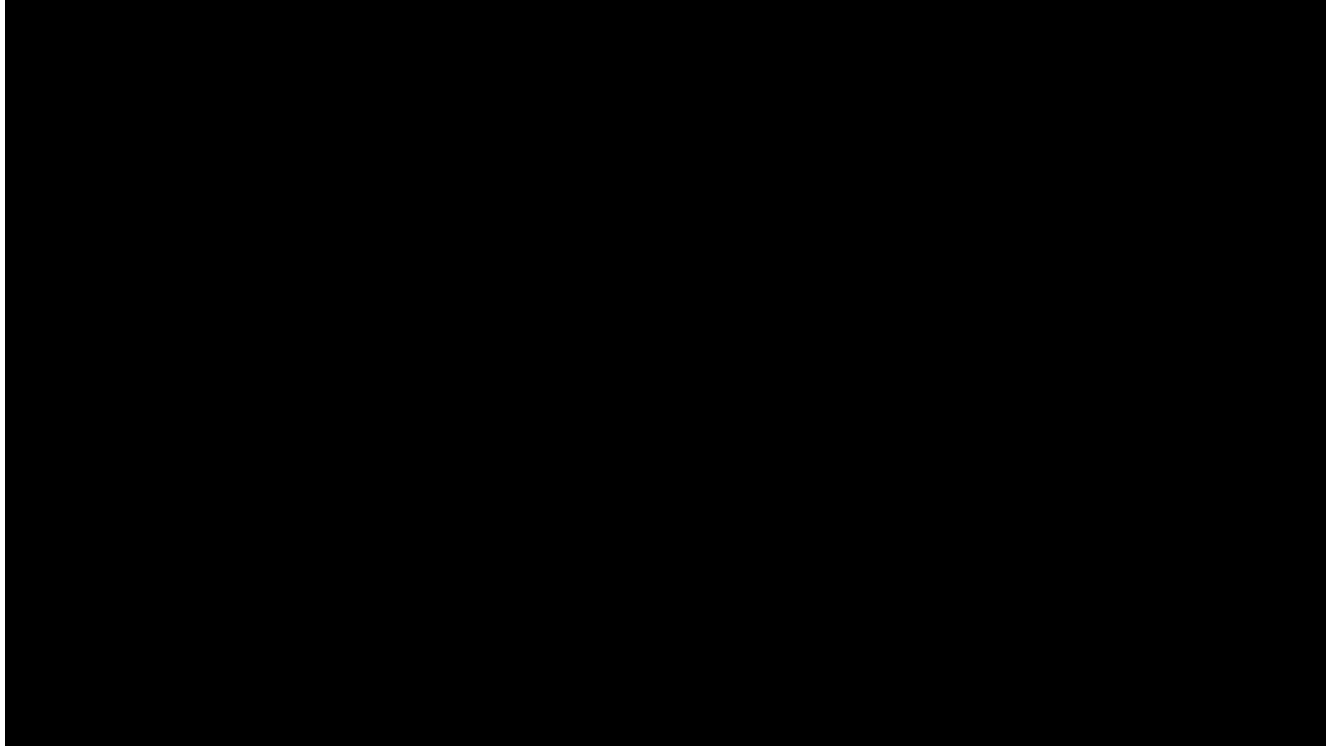
- Recreation Services
- Early Assist
- Student Health Services
- On-campus Housing
- Financial Aid & Awards
- Academic & Learning Services
- International Student Centre

# Indigenous Initiatives

- Indigenous Gathering Place
- Scholarships and financial aid
- Peer to peer mentorship
- Sweat lodge
- Elders in Residence



# Mineral Exploration and Mining video



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# QUESTIONS & ANSWERS

# Questions?



Shawna Waberi  
Student Coordinator



[swaberi@bcit.ca](mailto:swaberi@bcit.ca)



604.454.2217

# Resources

BCIT News stories:

[Mining for Mature Students](#)

[BCIT Mining Student Scholarship](#)

[Women in Engineering](#)



Photo credit: Alexandra Fontaine

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# THANK YOU