

DIPLOMA PROGRAM

BUILDING INFORMATION MODELING (BIM) MANAGEMENT



SCHOOL OF BUILT ENVIRONMENT
PETREL COLLEGE OF TECHNOLOGY

Approved under the Ontario Private Career Colleges Act, 2005, Program ID No. 17275537

PROGRAM OVERVIEW

The School of Built Environment's Building Information Modeling (BIM) Management 2-year diploma program is designed to ensure graduates are well versed in virtual design and construction. Globally, public and private organizations are adopting and implementing BIM on projects, and it is rapidly becoming the standard for architecture, engineering, and construction firms. BIM processes and tools are influencing behaviors and enhancing communication, coordination, and collaboration resulting in increased efficiencies and productivity in construction.

Through robust hands-on training students learn to apply and integrate the principles of BIM and deploy BIM technologies and BIM Management processes in all phases of a construction project.

PROGRAM START & DELIVERY DATES

Cohort 1

- Semester 1 Sep 2021
- Semester 2 Jan 2022
- Semester 3 Sep 2022
- Semester 4 Jan 2023

Cohort 2

- Semester 1 Sep 2022
- Semester 2 Jan 2023
- Semester 3 Sep 2023
- Semester 4 Jan 2024

14 week semesters

BIM LABOUR MARKET TRENDS

To meet future labour demands Canada's construction industry is expected to add more than 50,200 new workers to meet requirements of new projects on top of replacing 257,100 workers expected to retire.

Globally BIM certification is a top trend for 2020 and beyond as the adoption of building information modeling continues to expand.

COURSES

Semester 1

- Interpretation of Construction Drawings
- BIM Fundamentals
- Introduction to 3D Modeling
- Introduction to Construction Estimating
- Introduction to MEP Drawings
- Introduction to Scheduling
- Introduction to Construction Management

Semester 2

- Effective Construction Communications
- Technical Writing for Construction
- Building Code Fundamentals
- Construction Drawings Details and Connections
- Construction Documentation
- 3D Modeling 1
- BIM Data Exchange

Semester 3

- BIM Graphics and Visualisations
- BIM MEP
- BIM for Civil Infrastructure Projects
- 3D Modeling 2
- BIM 4D
- BIM 5D
- BIM Energy Analysis

Semester 4

- BIM Tools Integration
- BIM Project Collaboration
- Computational Design for BIM Projects
- BIM Management
- BIM Industry Research
- Parametric Design Methods (Revit Families)

10-YEAR WORKFORCE OUTLOOK

2029

227,600 New Entrants

257,100 Retirements

50,200 (+4.5%)
Employment Change

EXPERIENTIAL LEARNING

In the final semester of the program students participate in an industry research project designed to broaden their knowledge of a selected field in BIM. They research policy, technology and process fields that are significantly contributing towards BIM research and practicum with several directions for improving the building design, construction and operation process. They also collaborate with industry to research and implement their findings.

Blended Learning Experience

Students benefit from the blended learning format combining online resources, and in-class, in-person instruction in our BIM Hi-tech Laboratory.

Small Class Sizes

With classes of less than 30 students for every course, you will be able to speak directly with your professors, know your classmates, and engage in experiential learning and group work.

Autodesk and BIM Certified Faculty

Our faculty are Autodesk and BIM Certified Instructors who have demonstrated instructional and practical skills. They have the product knowledge needed to meet industry standards and lead courses in instructional settings.

Exceptional Student Support

Our dedicated support staff and industry experts coach and support students throughout their educational journey providing guidance and advising services, technical assistance, and assistance with living in Canada.

Industry Certification

Earn industry-recognized course completion certificates for Autodesk software skills, get Autodesk Certified when you take a certification exam and become eligible for CanBIM Certification.

Job Search Assistance

We offer assistance to students and graduates with finding employment through recruitment and networking events, job boards, and our network of local employers.

Autodesk & Office 365 Software

Students have professional Autodesk software access for their personal devices, and Office 365 Education including Word, Excel, PowerPoint, OneNote, and Microsoft Teams.

Be ahead of the curve and join the School of Built Environment's BIM Management program now!

COSTS

Amounts are in Canadian dollars.

Tuition And Fees 2020/2021

Tuition	\$20,000 (for 2 semesters)
Books & Materials	\$1,000
Full Program Cost	\$41,090*

*Includes 4 semesters of tuition, books and materials, and application fee of \$90. Subject to change.

Contact sbeadmissions@petrelcollege.ca for further fee information.

ADMISSION REQUIREMENTS

Admission Requirements

Ontario Secondary School Diploma with minimum overall average of 60% or Equivalent

English Language Proficiency Requirements

If your first language is not English, you will be required to provide acceptable proof of English language proficiency. Scores for any test written before January 1, 2018 will not be accepted. Alternative language proficiency test scores may be considered on an individual basis.

Acceptable English Language Proficiency Tests

Test	Level Required
TOEFL	A minimum overall score of 80 on the internet-based test with no section score below 20, and 550 on the paper-based test with a 5 on the TWE
IELTS	A minimum overall band score of 6.0 with no part less than 5.5
CAEL	A minimum overall score of 60 with no parts less than 60
MELAB	A minimum overall score of 80 with no part less than 78
PTE	A minimum overall score of 58 with no score less than 56

CONNECT WITH US

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For admission, application and document related questions contact School of Built Environment Admissions:

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