

Proud partner of the

Collaboration Charter
Engineering for
sustainable railway
mobility



AQTr Railway
Expert Committee



CHARTER OF THE INDUSTRIAL COLLABORATION PROJECT ON THE CREATION OF UNIVERSITY-LEVEL ACADEMIC CONTENT IN SUSTAINABLE RAILWAY MOBILITY ENGINEERING IN CANADA

The railway industry is expected to experience significant growth in North America in the coming years, and access to talent in general—and engineering talent in particular—is crucial to meeting the current and future challenges of railway transportation. In response to this challenge, the AQTr Railway Expert Committee created a working group in 2024, bringing together collaborators from AQTr member organizations to develop university-level academic content in sustainable railway mobility engineering.

The content developed as part of this project will be distributed under a free license to participating Canadian universities. This means that universities will be able to use this educational material at no cost, making it easier for students and educators to access specialized knowledge in sustainable railway mobility engineering. This initiative aims to strengthen training and research in this crucial field by fostering close collaboration between the railway industry and the academic community.

For more information about the Collaboration Charter and the training :
info@aqtr.com



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We are proud to partner in the **Collaboration Charter for the development of university-level content in sustainable railway mobility engineering**, an initiative of the AQTr Railway Expert Committee.

AECOM

ALSTOM
• la mobilité, naturellement •

 **AtkinsRéalis**

 **CDPQ**
Infra

 **INGÉROP**
Inventons demain

lgm/

POMERLEAU

Québec 

 **RAIL
CANTECH**

sector
Canada

 **Stantec**


VIA Rail Canada

WSP



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Here are the links to the different courses

Polytechnique – Génie transport collectif ferroviaire

- CIV8780 – Systèmes de transport collectif guidés :
<https://www.polymtl.ca/programmes/cours/systemes-de-transport-collectif-guides>
- ELE8780 – Technologies ferroviaires - Sécurité et signalisation :
<https://www.polymtl.ca/programmes/cours/tech-ferroviaires-securite-et-signalisation>
- MEC8780 – Technologies ferroviaires - Matériel roulant :
<https://www.polymtl.ca/programmes/cours/technologies-ferroviaires-materiel-roulant>
- IND8780 – Exploitation et maintien des systèmes ferroviaires :
<https://www.polymtl.ca/programmes/cours/exploit-et-maint-des-systemes-ferroviaires>

Ontario Tech – Railway Engineering

<https://partners.ontariotechu.ca/industry-lead-initiatives/railway-engineering-specialization/>

- ENGR 3011U - Introduction to Railway Systems :
<https://uoit.curriculog.com/proposal:3726/form>
- ENGR 4022U - Railway Safety and Signalling :
<https://uoit.curriculog.com/proposal:3768/form>
- ENGR 4033U - Railway Rolling Stock :
<https://uoit.curriculog.com/proposal:3727/form>
- ENGR 4044U - Railway Systems Operation and Maintenance :
<https://uoit.curriculog.com/proposal:3729/form>



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