

Cambrian College Centre for Smart Mining (CSM)

Cambrian College

📍 Sudbury, ON

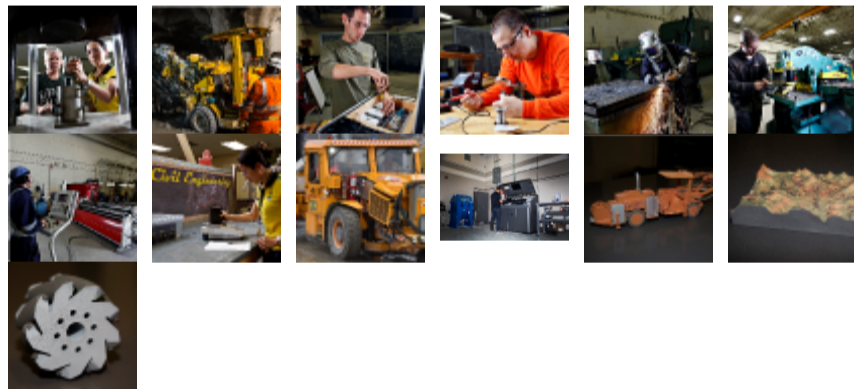


ABOUT CSM

Traditionally, the mining sector has lagged in adopting technology. Deviation from established practices is often viewed as unduly expensive.

Based in the international mining capital of Sudbury, Canada, The Centre for Smart Mining (CSM) de-risks and demystifies new technologies. Hundreds of companies are seeking entry to the mining sector and the CSM can be their gateway.

The CSM facilitates new technology adoption in the mining sector. We focus on mining technology companies as a main client base and the mining end users. Our areas of expertise include: digital technologies, underground communications, alternative tailings treatment technologies, and battery powered and connect mining vehicles.



Contact CSM

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RESEARCH AND INNOVATION EXPERTISE

EXPERTISE

1. Technology Development
2. Pilot Demonstration
3. Proof of Concept
4. Underground Vehicle Design and Development
5. On-vehicle Technology
6. Battery Electric Vehicles
7. Advanced Data Analytics
8. Mechanical and Electronics Engineering
9. Competitive and Market Analysis

Previous Research Projects

- Underground 3D Cavity Scanner Design and Development
- Digital Risk Analysis for Connected Vehicles using Machine Learning
- Smart Cube Market Research and Competitive Analysis
- Battery-Electric Drivetrain Development
- Battery-Electric Personnel Carrier Testing
- A Digital Lockout Solution for Pneumatic Systems
- Crusher Feed Optimization Using Machine Learning
- IoT Database and Dashboard for Ventilation Control
- Finite Element Analysis for Underground Mining Vehicle
- Comparative Workflow Analysis for Underground Scanning Technology
- Wearable Technology for Underground Miner Health Monitoring
- 3D Photogrammetry Platform for Industrial Spaces

Fields of projects

- Underground Electronics and IoT Development
- Predictive Data Analytics
- Battery electric Vehicle Technologies
- IoT and Digital Solutions for Mining
- Mechanical and Electrical Engineering Services
- Market and Competitive Analysis

