

# Exploration and Mining IN NORTHERN ONTARIO



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*We are Canada's Mining Powerhouse!*

Northern Ontario is home to 30 gold, palladium and base metal mines that produce \$10B in annual mineral production. Gold is one of the most sought after metals; Northern Ontario mines contributed a remarkable 2.5 million ounces of mineral wealth to Canada's 6.3 million ounces of total annual gold production in 2019.



**Exploration** investment attraction strengths in Northern Ontario include: prospective high mineral potential greenstone belts, mature mining "camps" districts, extensive modern exploration databases, recent discoveries of world class mineral deposits, experienced geological/geophysical community, and a modern Ontario Mining Act.

**Mining** is supported in Northern Ontario by:

- A clear permitting system, led by the Ministry of Energy, Northern Development and Mines (MENDM), to develop and operate a mine
- Talented workforce, supported by northern colleges and universities strategically located in Northern Ontario's five cities, as well as existing experienced skilled trades personnel.
- mining is the largest private sector employer of indigenous people
- growing electrical transmission and transportation capability
- strong health and safety culture at all mines
- Ontario mines meet the highest standards for environmental stewardship



- experienced mine service and supply businesses (1200-1500) that can build and maintain mines
- research clusters to support mining innovation and productivity (MIRARCO-Mining Innovation, Centre of Excellence for Mine Innovation (CEMI), Centre of Excellence for Sustainable Mining and Exploration (CESME)-Lakehead University, Goodman School-

Laurentian University, NORCAT Underground Centre.....)

- growing mineral processing capability of Ontario mined metals
- Toronto: the mining finance capital of the world!



Ontario's Mining Industry adopts green energy technologies at rates well above Ontario's industry average. Northern Ontario examples include: Newmont's Borden Lake Gold Mine as the country's first all- electric vehicle mine and Lakehead University's world class mineral processing laboratory.



Northern Ontario is poised and ready as host to critical elements/minerals such as lithium, nickel, cobalt, niobium, and graphite deposits, to support electric vehicle battery, battery storage, aerospace, and high temperature glass industries.

Future research opportunity and growth will continue in the following fields: tailings management, autonomous mining, tele-remote, zero water discharge, materials handling, continuous mining, green mineral processing, exploration geophysics for deep orebodies, ore- sorting, railveying and primary/secondary crushing.

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