



## AN INNOVATIVE LABORATORY IN ECONOMIC GEOLOGY

### THE UQAT-UQAM CHAIR IN MINING ENTREPRENEURSHIP

The Chair in Mining Entrepreneurship is the result of the close collaboration between the Université du Québec en Abitibi-Témiscamingue and the Université du Québec à Montréal. In a sustainable development perspective, the Chair's objective is to develop entrepreneurial innovation in the management of human, financial, and mineral resources. Its research subjects cover all the stages of

mining exploration and exploitation, and therefore, its studies give equal importance to governance models, community relations analysis, the role of globalization, and the impact of innovations in geological research that contribute to the success of Quebec companies. To encourage the discovery of new geological indicators, the Chair works closely with UQAM's mineral resources laboratory, whose expertise is the analysis of the mechanisms of ore formation.

### RESEARCH THAT STANDS OUT

Active since 2011, the Chair takes a trans-disciplinary scientific look at the technological and socio-economic factors that play a role in the success and development of the mining industry in Quebec. Under the direction of Michel Jébrak, professor in the Department of Earth and Atmospheric Sciences, this UQAM research hub directs several projects that aim to discover new substances in the province's territory, such

#### Knowledge Mobilization Support at UQAM

- Advisory Services for the Valorization of Knowledge (dissemination, transfer, etc.)
- Identification of Opportunities (funding, partnerships, etc.)
- Support for the Development of Collaborations

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as vanadium and rare earths, used in the manufacture of electric and hybrid vehicles, among other things. The costs of research missions in northern Quebec are extremely high and public funding is insufficient to cover them in their entirety. For this reason, private partner participation is essential in the realization of projects that spur innovation in mining. So far, these fruitful collaborations have placed students at the heart of a privileged contact between the university and the milieu, opening doors to potential employers.

### CONTRIBUTIONS TO SOCIETY

Rich in mineral potential, Quebec now possesses multiple government structures that oversee this aspect of the province's development. The Chair supports their efforts by finding, listing, and analyzing best practices in the specific area of mining management. Thus, on one hand, the Chair directly contributes to the recognition, and even the rise of Quebec entrepreneurs who are equipped to act in a more effective and responsible manner in the field. On the other hand, this learning process provides more complete training for both geologists and future entrepreneurs in the mining sector. The

Chair also develops unprecedented projects such as an inventory of innovation in mining, a study on the governance of mining exploration companies, and a history of the mining industry in Quebec.

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#### Sources :

Web site of the UQAT-UQAM Chair in Mining Entrepreneurship

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#### Key words

entrepreneurship, innovation, mineral resources, Earth sciences

## EXAMPLES OF RESEARCH PROJECTS

### An inventory of innovation in mining

This project is carried out in partnership with Minalliance, a group of companies and associations connected with the mining industry. It consists of the creation of a comprehensive inventory of examples of innovation and dynamism in mining throughout the world. A first booklet presents almost a hundred cases of technological advancement applied to mining activities. The study demonstrates the inventiveness of a profession that is renewing itself to be more effective and responsible with regard to working conditions and the environment. Many innovations concern issues of communication and transportation, as well as health and safety.

### Mapping a new geological sector of Quebec

This project, carried out at UQAM, aims to establish a geological map of a sector of northern Quebec. Located between the 60th and the 72nd parallels, this region shows exceptional promise for the mining of copper and gold. To acquire a deeper understanding of how these metals were formed in this sector, rock description studies are underway, using structural, mineralogical, and chemical analyses as well as geological dating.

#### WRITING AND DESIGN

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