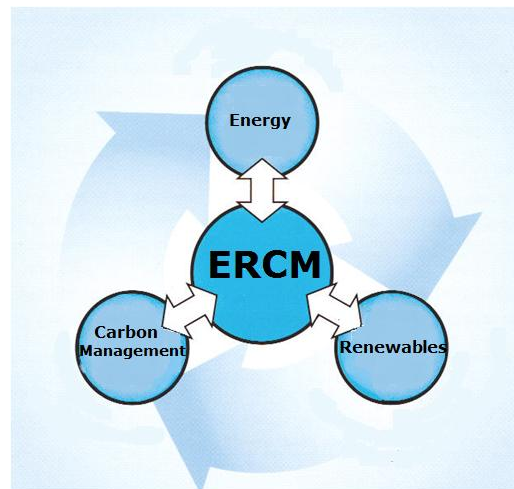




MIRARCO is a university-based mining research centre that has been creating novel solutions to the challenges facing the mining industry for over 10 years. MIRARCO is a not-for-profit corporation comprised of a dedicated workforce of professionals and students at all levels of post-secondary education. This hybrid of academic and professional dynamics has helped advance the innovative research for which MIRARCO is well known.

ERCM + Research Project Opportunities

Applications are invited for a researcher to contribute to the Smart Underground Monitoring and Integrated Technologies (SUMIT) for Deep Mining project in the field of optimal design of co-, tri- and poly-generation systems and energy management for mine sites. This project is funded by the Ontario Research Fund, Research Excellence Round 5.



This position is hosted by the Energy, Renewables, and Carbon Management (ERCM) research group of Laurentian University's Mining Innovation, Rehabilitation and Applied Research Corporation (MIRARCO), a research delivery partner in the programme. The successful applicant will join the vibrant and dynamic ERCM group, and will make contributions to maintaining the relevance and research excellence of the group.

There are two main themes for contributions. Firstly, the research will customize existing energy supply optimisation techniques to the Canadian mining sector, with the aim of enhancing its competitiveness on the global stage. The second theme involves innovative models for business interactions between mining companies and energy services companies, to identify those that match the rather more exotic energy supply solutions that emerge from the optimisation processes.

In order to ensure its relevance, this applied research involves intimate collaboration with industry. To that end, the successful applicant will undertake an extended secondment to a leading Sudbury-based small to medium enterprise that is known globally for its

provision of energy services to the mining industry. Unless they already hold a postgraduate degree, the successful applicant will be expected to register for and align their research contributions with the requirements for the award of a postgraduate degree. However, this requirement can be waived for an applicant with the right skills and experience for the project.

As a minimum, candidates should hold, or be expecting to hold in the near future, a degree in engineering (Mining, Electrical, Mechanical, Chemical), Computer Science, or a related discipline. Applications from graduates in (Renewable) Energy Engineering would be particularly welcomed. Candidates should have excellent oral and written communication skills in English.

Applicants are requested to provide a detailed current CV, a one page statement of research experience and interests that demonstrates a personal commitment to applied research in the research area, and contact information for two references. It is preferred that these materials be provided in pdf format. Applications should be sent by email to info@mirarco.org.

Informal inquiries in advance of an application may be directed to either Professor Dean Millar, Director, Energy, Renewables and Carbon Management, MIRARCO, at dmillar@mirarco.org or to Dr Monica Carvalho at mcarvalho@mirarco.org.

MIRARCO is committed to equity in employment and encourages applications from all qualified individuals, including women, aboriginal peoples, members of visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed first to Canadian citizens and permanent residents.

Applications will be reviewed from December 1, 2011 until the position is filled.