



McGill COSMO
Stochastic Mine Planning Laboratory

<http://cosmo.mcgill.ca/>

Research Fellow/Associate positions in Geostatistics and Stochastic Simulations

Highly qualified candidates are sought for Research Associate/Fellow positions in the above areas and to work under the research programs of the COSMO-Stochastic Mine Planning Laboratory, McGill University. COSMO works with and is generously funded by a consortium of global mining companies: AngloGold Ashanti, Barrick Gold, BHP Billiton, De Beers, Newmont Mining and Vale, as well NSERC of Canada and the CRC Program.

Research projects are integrated to combine new stochastic simulation methods and stochastic operations research approaches for mine planning and evaluation. Effort is placed on the development of new 'high-order' and 'multi-point' spatial mathematical models of geological uncertainty, as needed for the modeling of complex non-linear, non-Gaussian geological processes. These models provide inputs to new stochastic optimization formulations developed to solve mine production scheduling problems under uncertainty. Major component of research is the testing of new methods at sites world-wide, thus providing exposure to operations and interaction of methods with reality. Applications in reservoir modeling and multiphase flow forecasting, geologic CO₂ sequestration and other areas are encouraged.

The ideal candidates should have a PhD degree in any related field, a suitable academic and publications record, and excellent analytical and computing/programming skills.

COSMO offers a high-tech working environment; it is linked to the oldest mining engineering program of Canada, collaborates with other Departments at McGill and Professors in other universities in Canada, the USA, Australia, South Africa and South America. McGill University offers a research intensive environment and attracts international students from about 140 countries.

Salary is commensurate to qualifications.

For further information, please contact:

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