

# Advanced Mining Systems

## Smart Mining Solutions™

### Overview

Development Engineering has provided tools and services to the mining industry for more than 20 years. With the Saskatchewan Research Council's breadth of technical expertise, Development Engineering can offer answers to unique and challenging problems.

Development Engineering is involved in the concept research, design and development of distinctive mining technologies.

### Sample projects

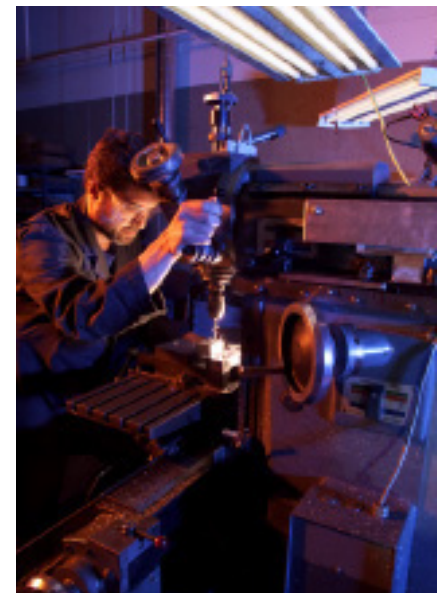
**Oil and gas** – intelligent systems algorithms to optimize oil treater operation for the purpose of decreasing production costs

**Potash** – models using 3-D CAD technology and rapid prototyping equipment

**Uranium** – inspection and monitoring systems for guiding water jetting process in underground cavities

**Gold** – stream flow monitoring and weather station design and installation

**Diamonds** – process design and automation of diamond detection system



### CONTACT

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## Products

**Camera inspection** – underwater, compact systems for drill pipe and underground inspection

**Sonar mapping** – tools to map cavities and mining works underwater along with profiling software

**Deployment** – winch and wire line systems incorporated with power line communications allowing high speed data transfer on line supplying power to remote instrument

**Air curtain** – designed to work with underground scoop trams to reduce contaminants to users

## Services

**Engineering** – mechanical, electrical and chemical process engineering

**Fabrication** – machine shop, electronics/electrical shop, metal, plastics, printed circuit card design and fabrication

**Testing** – lab space with equipment, logging, design and process loops

**Advanced technologies** – rapid prototyping, 3-D laser scanning

