

▶ SERVICES TO THE MINING INDUSTRY





# HOW DO YOU BUILD MINES ON A FIRM FOUNDATION? JUST ASK GOLDER.

World class mining needs world class solutions. The challenges faced by mining companies include remote sites, extreme weather and complex geology. Miners strive for operating excellence, accountability and transparency towards the environments and communities in which they operate. Golder can help you achieve this.

## ABOUT GOLDER ASSOCIATES

We have been delivering quality technical solutions to the global mining sector for over 50 years.

We help you design and build your operations and make them more sustainable using proven and innovative approaches developed from our experience with mining projects around the world.

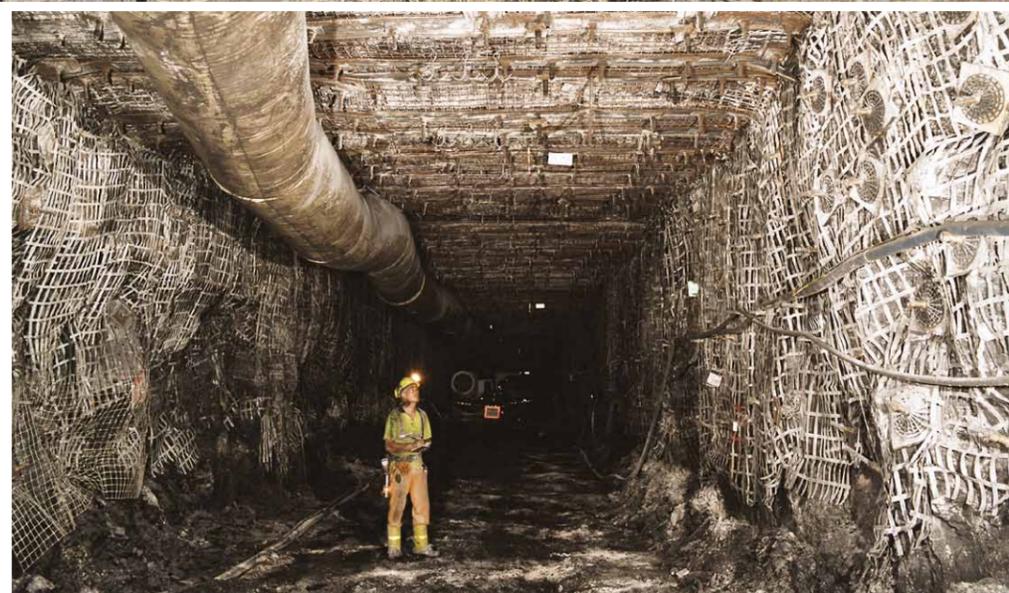
You will benefit from our reputation, which rests on our wealth of practical mining experience and on the quality of our work.

You can rely on the strength of our technical and service excellence, and our global network of specialists in all key mining locations.

## OUR SERVICES

Our integrated consulting, design and construction solutions can be applied to every stage of your mining project and are provided by teams specialising in:

- Mine Planning and Ore Evaluation
- Integrated Tailings and Waste Management
- Rock Mechanics and Mine Geotechnical Engineering
- Mine Environment
- Mine Water
- Mine Infrastructure
- Heap Leach Design and Construction
- Mine Energy Optimisation and Carbon Management
- Sustainability and Corporate Social Responsibility
- Mine Safety and Industrial Hygiene
- Management Consulting



**ROCK MECHANICS:** Ensuring the safety of all mine workers is paramount to the successful operation of a mine. Our specialists in mine design and rock mechanics will advise you on appropriate measures to achieve this goal and to maximise production.

**WE HELP OUR CLIENTS TO BALANCE PROFITABLE MINE OPERATIONS WITH CARE FOR THE ENVIRONMENT AND COMMUNITY.**

**EVALUATION:** Our geologists, engineers and scientists will provide you with an independent assessment of the feasibility of your project.

## COMMODITIES

You can rely on our specialist expertise in evaluating, developing, and optimising your surface, strip and underground mines to extract:

- Aggregates
- Aluminium (bauxite)
- Chromite
- Coal
- Copper
- Diamonds
- Gold and Silver
- Industrial minerals
- Iron (including magnetite)
- Manganese
- Mineral sands
- Nickel
- Oil sands and oil shales
- Phosphate
- Platinum and PGEs
- Potash
- Rare earths
- Uranium
- Zinc and Lead

...and other specialty commodities.

**WASTE MANAGEMENT:** We will work with you to permit, design, develop, build, operate and close your mine waste management facilities.

## JUST ASK GOLDER

The main advantages of choosing Golder for your project needs are:

- **EXPERIENCE:** Our vast mining expertise working on surface, strip and underground projects in over 150 countries.
- **HEALTH & SAFETY:** Our commitment to excellence in health, safety and environmental management.
- **SOLUTIONS:** Integration of our services to provide seamless solutions.
- **RELATIONSHIPS:** Understanding your needs and developing close relationships with all project stakeholders.
- **REGULATORS:** By fostering a working relationship with the regulator responsible for reviewing your project application, we develop an early understanding of any project-specific concerns.
- **SUSTAINABILITY:** Our commitment to sustainability means we formulate project-specific programs to balance profitable mining operations with care for the environment and communities impacted by mine development and operations.
- **CLIMATE CHANGE:** By improving plant and building design, and by analysing opportunities for renewable energy technologies, we can help your project to reduce dependence on fossil fuels.
- **EXCELLENCE:** Our commitment to quality, technical excellence, and service excellence, means that Golder is one of the most trusted sources of professional mining services in the world.



MAKE YOUR BUSINESS DECISIONS ON A SOLID FOUNDATION.  
CHOOSE A COMPANY WITH THE TECHNICAL EXPERIENCE AND COMMITMENT  
TO SERVICE EXCELLENCE AND SUSTAINABILITY THAT YOU NEED TO BE SUCCESSFUL.

## JUST ASK GOLDER

**ENGINEERING EARTH'S DEVELOPMENT, PRESERVING EARTH'S INTEGRITY.**

Key contacts for our mining services can be found on our website: [www.golder.com/mining](http://www.golder.com/mining)



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