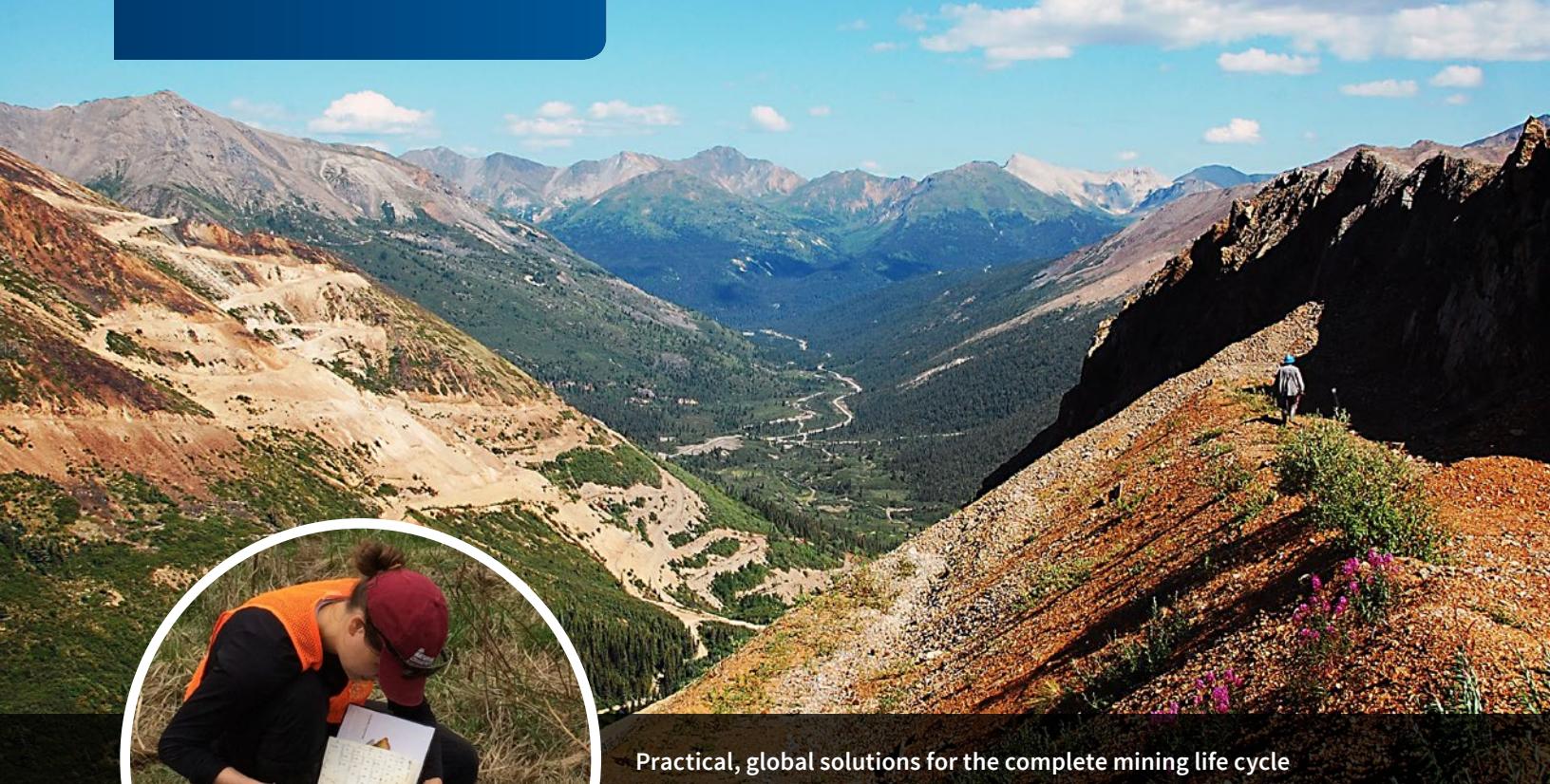


# Mining and Minerals



TETRA TECH



Practical, global solutions for the complete mining life cycle

complex world | CLEAR SOLUTIONS™

# Full service mining solutions

Tetra Tech has established a reputation for cost-effective mining expertise and innovation. The firm's service delivery consistently exceeds expectations in today's demanding market without compromising experience, safety, or integrity. All phases of a project's life cycle are covered, from identification to handover. Tetra Tech's strengths include study, design, and EPCM or EPC project execution services for the mining, mineral processing, and infrastructure sectors across a wide range of commodities. Our strong market position is characterized by projects undertaken in virtually all commodities. We serve most major resource companies and many mid-tier and junior miners around the world.



## Our services include:

Feasibility studies

Due diligence

Test work

Permitting

Multidiscipline design

Tailings and  
mine closure

Infrastructure

Procurement and  
project controls  
services

Construction  
management

Commissioning

Water and wastewater  
treatment

Sustaining capital  
engineering

Power generation and  
distribution

## Services for the complete mine life cycle

### Exploration

Tetra Tech provides a full range of services to support property acquisition, mine expansions, mining opportunity investments, and debt and equity financing opportunities. We support both mining companies and the financial industry in evaluating the environmental, social, geologic, metallurgical, engineering, forecasted costs, and mining aspects of a property for its investment potential. Our deep understanding of the worldwide mining market allows us to provide value in the areas of exploration and due diligence for acquisitions. Our strong senior project development team of highly regarded geology, mine engineering, and process professionals supports these due diligence efforts to assist companies in making informed decisions about new or expanding projects.

### Pre-development

Tetra Tech has significant prefeasibility- and feasibility-level mine planning and costing experience. We are involved with projects from early stage exploration through to production. We have demonstrated skills in resource evaluation and due diligence, open pit and underground mine design, processing, and related infrastructure. Our service offerings range from conceptual evaluation of different production alternatives, scoping and feasibility studies, and detailed engineering design.

All services meet standards required by the Toronto Stock Exchange's National Instrument (NI) 43-101 regulations, the Australian Stock Exchange's Joint Ore Reserves Committee Code (JORC) code, the London Stock Exchange's Alternative Investment Market (AIM) Rules, the South African Minerals Code for the Reporting of Mineral Resources and Mineral Reserves (SAMREC), and other reporting standards. Several qualified personnel are available on staff to certify technical and economic evaluations.



**Experience:** Tetra Tech provides unsurpassed depth and breadth of technical resources and experience. Our engineers, geologists, scientists, and technical staff solve the industry's most complex design, operational, process, and performance challenges for projects worldwide.

**Safety:** Tetra Tech maintains an exceptional safety record by implementing a health and safety management system and providing the programs, resources, and tools necessary to support safety integration companywide. Every project is evaluated at all stages to protect the well-being of our employees and the communities and environments in which we work.

**Integrity:** Tetra Tech is committed to business practices that adhere to the highest standards of ethical conduct. Quality and mutual respect are the underpinnings of our ethics-first approach, which has yielded long engagements with repeat clients who place great confidence in us.

## Project Permitting and Approvals

Tetra Tech has expertise in permitting and other regulatory activities for international exploration and mining projects. Our team of permitting specialists and environmental scientists provide regulatory analysis and guidance including completing environmental audits and due diligence studies to support the preparation of permitting applications for all stages of a mine.

Tetra Tech coordinates and manages project permitting and strategizes potential solutions to many permitting issues with governing entities worldwide. We have successfully worked with private industry and national, state, local, regional, and aboriginal agencies around the world to develop approaches to complete the permitting process efficiently without compromising legal defensibility.

## Design and Construction

Our field engineers, superintendents, safety officers, and scientists are familiar with various, complex issues and concerns related to construction management and construction quality assurance for large civil, industrial, mine development, and reclamation projects. We execute projects safely, on time, and within budget.

## Operations

Tetra Tech supports mining operations in developing sustaining capital investment strategies and end-of-life replacement or upgrades that generate long-term performance and provide substantial savings. Our discipline engineers, metallurgists, mining engineers, and technical experts provide continuing support and mining consulting during a mine's operational production phase for plant and facilities engineering, sustaining capital programs, maintenance engineering, growth capital programs, and on-call services or outsource engineering. We maximize production quality and quantity and minimize down time during expansions, improvements, or repairs.

## Reclamation, Remediation, and Closure

Our engineers and environmental specialists support reclamation planning, closure design, and reclamation and revegetation activities. Tetra Tech customizes closure and reclamation strategies and designs based on site-specific conditions by defining approaches, measures, and materials that contribute to success. We isolate and modify unsatisfactory or costly plan elements.



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Tetra Tech's innovative, sustainable solutions help our clients address their water, environment, infrastructure, resource management, energy, and international development challenges. We are proud to be home to leading technical experts in every sector and to use that expertise throughout the project life cycle. Our commitment to safety is ingrained in our culture and at the forefront of every project. We combine the resources of a global, multibillion dollar company with local, client-focused delivery. [tetrtech.com](http://tetrtech.com)