



**engenium**  
smart project delivery

## Mine Operations Project & Engineering Support

Engenium is a project management multi-disciplinary engineering consultancy. For over a decade we have developed a reputation for helping our clients with brownfield and sustaining capital projects.

Engenium will deliver your works in a LEAN and efficient manner appropriate for your budget, meeting your operational stakeholder's requirements. We find many clients are not getting this level of service from the traditional EPCM and larger engineering houses, becoming frustrated with the lack of responsiveness, accountability and the high costs involved.

We know how mining operations work. We understand the drivers, risks and processes required to deliver your project efficiently and effectively within an operating mine site.

### Our Services

#### Project Planning & Studies

- Site investigation
- Stakeholder meetings and liaison
- User requirements development
- Business case development
- Options analysis
- Conceptual design
- Cost estimating and cost reduction workshops

- Scoping and feasibility studies
- Capital approval funding request.

#### Design & Documentation

- Laser scanning
- 3D Modelling for reviews
- Safety in design (HAZID) register
- Detailed design and drafting
- Shop fabrication drawings
- Design reviews and checks
- Back drafting and 'as-built' drawings
- SOW and specifications development
- Tender Documentation

#### Project Management & Secondment

- Owners representative
- Project engineering support
- Scope, cost and schedule control
- Construction risk workshops
- Tender evaluation and adjudication
- Shutdown planning
- Construction management
- Commissioning support
- Operational readiness and asset integration.

**Delivering Value. Delivering Results.**



## Our Experience

No operational project is too small. We treat all site projects with the same level of importance. Working on the philosophy that 'you are only as good as your last project' we strive to ensure your expectations are met, delivering both value and results for your project.

### Civil & Rail Infrastructure

- Earthworks and pads
- Retaining walls
- Drainage systems and structures
- Roadworks
- Haul roads
- Tailings storage facilities
- Turkeys nest and dams
- Footbridges
- Culverts
- HV/LV intersections and overpass
- Main road intersections
- Drainage
- Rail sidings and signalling
- Rail asset integrity assessment
- Access roads.

### Mine Plant

- Plant structural modifications
- Handrail, platforms and walkway modification
- Structural integrity assessments
- Plant debottlenecking
- Production and grade recovery projects
- Conveyor, chutes, screens, bins upgrades and modifications

- Wet and dry bene plant upgrades
- Plant control system modifications and upgrades
- Sample station upgrades
- Stacker / reclaimer maintenance and upgrades
- Train loading facilities.

### Mine Infrastructure

- Dust suppression projects
- Pit dewatering, borefields and pipelines
- Potable water and distribution
- Fire protection and fire water
- Water treatment
- Lighting and electrical HV
- Substation upgrades
- Mine site communications
- Workshops and warehouses
- Camp and admin mine building
- Building and camp demolition
- Ammonia nitrate facilities
- Fuel storage and distribution
- Security and site access systems.

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