



Z E A L
E N G I N E E R I N G

CAPABILITY STATEMENT

OWNERS TEAM SERVICES



We can assist in developing assets from exploration to operation. We offer a full range of services to assist in developing projects.

At Zeal, we focus on client-side project development and can provide a complete owner's team or seamlessly integrate key resources into an established team.



Client Representative Services



Study Management



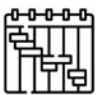
Project Evaluations & Due Diligence



Test Work Management



Project Development and Execution Strategy



Project Management



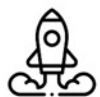
Engineering Management



Procurement & Contract Management



Construction Management



Commissioning Management



Operational Readiness

Conceptual Studies through to **Detailed Engineering, Construction, Commissioning** and **Operational Readiness.**

We work with "zeal" to ensure projects are delivered on time, on budget and to the highest quality.



Studies

We help clients to develop projects from concept to execution and operational readiness. We focus on key value drivers and practical solutions that optimise the project business case and value.

- Project planning and scoping.
- PEAs and Scoping studies.
- Pre-feasibility studies.
- Definitive-feasibility studies.
- Execution Strategy and Operations planning.
- Risk identification and management.

Due Diligence

We perform independent reviews to assist in the due diligence process when considering the purchase of an asset, entering into a joint venture or during mergers and acquisitions.

- PFS and DFS reviews.
- CAPEX and OPEX reviews.
- Financial model reviews.
- Technical reviews.

Testwork Management

We assist Clients to scope and manage site and laboratory testing programmes that support project development, using our experience and network of consultants and suppliers.

- Flowsheet review and development.
- Design criteria review and development.
- Management of drilling and test work programs:
 - Exploration,
 - Geological,
 - Metallurgical,
 - Geotechnical,
 - Pit geotechnical,
 - Hydrological,
 - Fine and coarse ore aggregate,
 - Test pits, and
 - Waste characterisation.

Project Management

We offer a client-centred and collaborative approach to strategic planning integrated with extensive project execution capabilities.

- Planning.
- Scheduling.
- Cost estimating.
- Cost control.
- Project reporting.
- Change management.
- Procurement and contract management.
- Construction management.
- Commissioning management.
- Operational readiness.

Engineering Management

Our team has a wealth of experience delivering multi-disciplinary projects through measured and decisive engineering management.

- Access roads and bridges.
- Air strips, hangars, maintenance facilities.
- Bore fields.
- Camp accommodation, messing, and sporting facilities.
- Fire water systems.
- Mine dewatering.
- Mine services area infrastructure.
- Mineral processing facilities.
- Power systems.
- Pumping systems.
- River abstraction systems.
- Tailings storage facilities.
- Sewage treatment plants.
- Water treatment plants.
- Water storage dams.

Procurement and Contract Management

Our approach for every project is tailored to the owner's requirements, funding strategies, commodity, regional constraints and challenges, local workforce, and available contractors. We provide the following services, but not limited to:

- Procurement and contracting plans.
- Long lead and critical path procurement strategies.
- Pre-qualification of vendors and contractors.
- Development of standard terms and conditions.
- Scoping and tendering.
- Technical and commercial evaluation.
- Recommendations for an award.
- Contractor and subcontractor management.
- Contract development, negotiation, and management.
- Authority to commit documentation for internal approvals.
- Fabrication and manufacturing management.
- Quality assurance and quality control.
- Negotiation and mediation of disputes.
- Logistics management.
- Expediting.

Construction Management

We develop constructive relationships and work with key stakeholders to achieve optimal project outcomes based on a decisive, proactive and responsive approach:

- Construction management plans.
- Constructability reviews.
- Contractor pre-qualification and selection.
- Contractor and subcontractor management.
- Review and recommendation of construction equipment.
- Resource histograms.
- Lift studies.
- Progress reporting.
- Project engineering.
- Project controls.
- Quantity surveying.
- Quality assurance and quality control.
- Construction check sheets.
- Inspection and test plans.
- Inspection and test records.

Commissioning

We have considerable experience in commissioning planning and management in a safe, practical, and expeditious manner.

- Coordination with key stakeholders to plan tie-ins, shutdowns, and transitions into operations.
- Commissioning plans.
- Strategy.
- Organisation charts.
- Manning and equipment histograms.
- Scheduling.
- Cost estimating.
- Check sheets.
- Coordination of vendor support.
- Coordination of specialist commissioning equipment.
- Integration of the maintenance/operational resources into the commissioning team.
- Completion of project 'as built' documentation.
- Performance testing.

Operational Readiness

Our approach is focused on developing plans, processes, resources, systems and strategies to ensure the success of the project ramp-up toward sustainable and reliable operational performance.

- Asset integrity management.
- De-bottlenecking.
- Design reviews.
- Lubrication schedules and lubes.
- Maintenance scheduling.
- Management.
- Manning.
- OPEX cost review.
- Operating spares review.
- Operating procedures.
- Operating resource planning.
- Plant optimisation.
- Reagents and consumables.
- Training.
- Throughput upgrades.
- Warehousing.

Construction and Commissioning Resources

Our people are the most valuable asset to achieving project success.

Zeal is ready to support clients across the spectrum of construction, commissioning, shutdowns and maintenance works. We can assist with your resourcing requirements from supervisors to skilled and semi-skilled labour.

- Project management.
- Project engineering.
- Engineering, design and procurement.
- HSE supervision.
- Civil and earthworks.
- Concrete works.
- Structural mechanical & piping works (SMP).
- Electrical and Instrumentation & control (EIC).
- Carpentry.
- Commissioning and decommissioning.
- Shutdowns and maintenance.

Our key value proposition and differentiators:

- Extensive experience in the mining industry: We have worked with various mining companies and have a deep understanding of the unique challenges and requirements of this industry.
- Flexibility and adaptability: We are committed to working closely with our clients to understand their specific needs and deliver customised solutions that meet their requirements.
- Competitive pricing: We offer cost-effective solutions without compromising on quality, ensuring our clients get the best value for their money.
- Strong track record: We have a proven track record of delivering projects on time, within budget, and to the highest standards of quality and safety.



Our expertise is in developing projects using skilled industry professionals and proven execution strategies. Our management team has a combined experience of more than 50 years in the mining and minerals, chemical processing, oil and gas, energy and infrastructure industries.

We have completed projects in Africa, Asia, Australia, Europe, North and South America. We are experienced in a diverse list of commodities, but our key focus is on precious metals, base metals, and lithium. We can assist with all the requisite areas of project infrastructure.

Experience

Australia	Europe	Asia	Africa	America	Stage	Commodity									
						Au	Cu	Zn	Fe	Ni	Li	V	K	C	
●	●	●	●	●	<i>Pre-feasibility Study</i>	●			●	●	●	●	●	●	●
●		●	●	●	<i>Feasibility Study</i>	●	●	●	●	●	●			●	
●	●		●		<i>Scope</i>	●	●	●			●	●			
●	●	●	●		<i>Design</i>	●	●	●	●	●	●				
●	●	●	●		<i>Procurement / Contracts</i>	●	●				●				
●	●		●	●	<i>Construction</i>	●	●		●	●	●				
●	●		●		<i>Commissioning</i>	●	●		●	●	●				
●	●		●		<i>Operational Readiness</i>	●	●			●	●				

At Zeal Engineering, our vision is to be a leader in the industry, developing high-value projects responsibly and sustainably, that exceed our client's expectations and contributes to the long-term economic, social, and environmental well-being of the communities in which we work.

Our commitment to precision, safety, and quality, coupled with our decisive and proactive project management skills, ensures the seamless execution of projects.

**zeal**

[zi:l] - noun

an ardent and eager interest in the pursuit of a cause or an objective

Meet Our Team

Zeal Engineering employs a team of experienced project delivery professionals.



Jay Daviot | Managing Director

A mechanical engineer with 18 years' experience focusing on feasibility studies, detailed design and project execution in the mining industry. Jay has held project management, lead mechanical and lead project engineering roles in EPCM and Owner operated teams. Jay is a chartered Professional Engineer with Engineers Australia. MIEAust CPEng NER



James Schloffer | Study Manager

A chemical engineer with 15 years' professional mineral processing and hydrometallurgy experience gained across a breadth of commodities. James has worked across the full spectrum of mining including studies, metallurgical test-work, pilot plants, detailed engineering design, EPC & EPCM construction, commissioning and operations. James is a member of AusIMM.



Justin Sporre | Project Manager

Project Manager with over 18 years of Contracts, Project Engineering, Project Management, and Study Management experience. Justin has worked in Australia, Europe, North America and Africa. His experience in the minerals and metals industry spans the full project life cycle from feasibility through detailed design, construction and commissioning.

The **foundation** of our organisation is based on the following values.



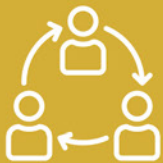
RESPONSIBILITY

Act like an owner. We accept **responsibility** for our decisions, actions and results. We move forward with purpose.



COMMITMENT

We are **committed** to developing constructive, transparent, long-term relationships with our clients.



COLLABORATION

We **collaborate** with our clients and leading industry professionals to ensure optimal project outcomes.



INTEGRITY

We conduct ourselves **ethically** and **honestly** with **integrity**.



PRAGMATISM

We strive for excellence by aiming for the most simple, **pragmatic** and effective solution to any problem.



RESPECT

We strive to create a productive working environment with continual improvement by acting with humility and engaging people with **respect**.



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“Our collaborative approach ensures that practical, fit-for-purpose solutions are engineered to align with the client’s ethos and vision.”



Z E A L

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Find out more at

www.zeal.engineering

