

Creating a more resourceful world.

Gladstone Capability Statement



Determine / Design / Deliver /

Wave International was established in 1999 with the aim of delivering exceptional engineering services in the Bunbury, Western Australia region. Over the years, the company evolved, expanding its service offerings, and has grown domestically and internationally with offices in Australia, Europe, Canada and India.

Wave has a solid, industry-wide reputation for providing innovative, flexible, and value-add solutions. This service excellence, combined with a total commitment to client relationships, continues to set Wave apart from its competitors. Our clients cover the full spectrum of private and public enterprise, servicing the energy and resources, infrastructure, water, environment, and urban development sectors.

Our future growth is aligned with the United Nations Sustainable Development Goals, and we recognise that key conditions of ecological sustainability, fair distribution, and the efficient use of resources requires a balance among natural, human, social, cultural, and built assets. Our business objective is to create this regenerative growth.

25⁺ Years in
Operation



350⁺
Employees



Meet the Gladstone Team

We have a dedicated local Gladstone team of project managers who are highly experienced in a variety of areas and are dedicated to serving the Gladstone area.

Our team of experts has extensive experience in the resources industry, enabling us to provide tailored solutions that meet the unique needs of our clients. We are committed to delivering high-quality services that help our clients achieve their goals efficiently and sustainably.

Key Gladstone Personnel



Jim Ross

Project / Construction Manager
25+ years of experience
Industries: Mining, Power, Cement, Chemicals, Oil/Gas, Water/ Waste Water
Commodities: All



John Morfey

BEng (Hons), CEng
Associate Project Manager (Mechanical)
10+ years of experience
Industries: Mining, Heavy Industry
Commodities: Coal, Alumina, Bauxite, Cement



Frederick Mills

BEng (Hons), CEngT, PMP
Senior Project Manager (Mechanical)
6+ years of experience
Industries: Mining, Manufacturing
Commodities: Coal, OEM, Automotive, Research



Zac Pronk

BEng (Hons), CEng
Project Manager (Mechanical)
2+ years of experience
Industries: Mining, Heavy Industry
Commodities: Coal, Base Metals

Gladstone Team Support

The Gladstone team is supported by the Brisbane head office which enables the local Gladstone team to be flexible and tackle a wide range of projects.

The below are key personnel from the Brisbane office:



Mark Dorloff

Executive GM, Eastern region

25+ years of experience

Industries: Mining

Commodities: All



Peter Shuttleworth

Principal, Structural

20+ years of experience

Industries: Mining, Heavy Industry

Commodities: All



Brenton Shaddock

Principal Project Director

18+ years of experience

Industries: Mining, Heavy Industry, Mineral Processing

Commodities: All commodities



Alex Sneyd

Principal, E&C

≈20 years of experience

Industries: Mining, Infrastructure, Power Transmission and Distribution

Commodities: All



Anthony Husband

Principal, Civil

16+ years of experience

Industries: Mining, Infrastructure, Water, Industrial

Commodities: All



Felipe Cespedes

Principal, SMP

≈20 years of experience

Industries: Mining, Heavy Industry

Commodities: Base Metals



Matt Chauhan

Business Development Manager

9+ years of experience

Industries: Mining

Commodities: Base Metals, Research

Project Experience in the Gladstone Region

We have supported the Gladstone region and the local industry with a permanent presence over the last 18 years.

During this time, we have worked for a variety of clients offering a variety of services:

- Gladstone Ports Corporation – RG Tanna and Barney Point
- Orica Chemicals
- Rio Tinto – QAL
- Rio Tinto – Yarwun
- Rio Tinto – Boyne Island Smelter
- Cement Australia
- NRG Power Station
- Queensland Energy Resources
- Wiggins Island Coal Export Terminal
- Queensland Rail
- Gladstone Area Water Board

Knowing the Gladstone economy, we are aware of the fluctuations in resource demands that apply to the area. As such, we have a core local team based in Gladstone to work closely with local clients and support the sites requirements, whilst having a dedicated engineering support team based in Brisbane that can be utilised to support projects as required. Further to this is our Perth based engineering team, which can provide additional backup should it be required. Having both the Brisbane and Perth teams, provides a large resource pool that is not limited to the Gladstone residential workforce.

Specialist Services Powering Project Commercialisation

Studies, Project and Construction Management

Wave offers commercial solutions that include both design and supply/construct services, which have been proven to provide benefits to the end user.

- Complete project management solutions
- Due Diligence
- Feasibility Studies (from concept to bankable)
- Project Controls and procurement management
- Project Estimating and Forecasting Construction Management and Supervision
- Commissioning
- Shutdown Management
- Planning and Scheduling Operations and Maintenance Support

Structural, Mechanical and Piping

- Heavy Industrial and Mining Plant Bulk Materials Handling
- Pumps, Piping and Process Equipment / Plant
- Detailed design and drafting
- Failure Analysis
- Mine site surface infrastructure
- Asset Management / Sustaining Assets
- FEA and stress analysis
- Production Simulation / Debottlenecking
- Strain Gauging



Electrical, Instrumentation and Control

- Power System Design
- Process Control and Instrumentation Design
- HV and LV Earthing Design
- MCC and Switchboard Design
- PLC Programming
- Industrial Network Design
- Lighting Design
- Commissioning
- General Consulting and Engineering Design

Asset Management

- Maintenance Readiness (New & Existing Plants)
- Maturity Assessment and Gap Analysis
- Work Management Support & Development
- Defect elimination and reliability improvement
- Master Data Support and development
- Planned maintenance optimization (PMO)
- Maintenance procedure development
- Spares analysis and review

Civil and Infrastructure

- Mine Waste and Tailings Management
- Urban Infrastructure, Land Development and Subdivision, Public infrastructure
- Mine site surface infrastructure and services
- Waste and Wastewater Treatment & Management
- Road Design and Planning
- Bulk Earthworks and haul roads
- Earthworks and Drainage
- Remote Camps and Accommodation

Drafting Services

- Laser Scanning
- Surveying Engineering Drawings
- Fabrication Drawings



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