



CAPABILITY STATEMENT

D&J Engineers Pty Ltd

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About Us

D&J Engineers Pty Ltd is Brisbane based mechanical, structural and process/ chemical engineering consulting company that provides a range of professional services including engineering design, analysis, RPEQ /CPEng certification and drafting, commissioning and operation support to diverse range of industries such as transportation equipment, lifting equipment, mining, earthmoving, material handling, industrial/commercial/ retail/ residential developments, municipal/ industrial commercial wastewater treatment and chemical plants.

Team Qualifications include,

CPEng – Chartered Professional Engineers

NER – National Engineering Register

RPEQ – Registered Professional Engineer of Queensland

PhD -Doctor of Philosophy in Mechanical Engineering

Competitive advantages

- Delivering value added designs through innovation by well experienced professional staff
- Accountability for health, safety and environmental
- Creating sustainable solutions
- Completing projects on time and on budget

Accreditations & Awards

- Board of Engineers QLD
- Engineers Australia
- National Engineering Registry
- Department of Transport and Main Roads:
Approved Person Scheme

Snapshot

- Legal Name: D&J Engineers Pty Ltd
- ACN: 611 035 226
- ABN: 55 447 861 271
- Address: 3/20 Jijaws Street, Sumner
QLD 4074
- Web: www.dnjengineers.com.au
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- Tel: (07) 53538071
- Managing Director: Dhanushka Godakuru email:
ghanushka@dnjengineers.com.au
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Health and Safety

The Organisation's principle objective remains to provide all personnel who work for the Organisation with a work environment that is safe and free from hazards so far as reasonably practicable in adherence with current and relevant Australian occupational safety and health (OSH/WHS) Legal Obligations and other Requirements.

Our services

Mechanical Engineering

➤ Machine Design

- **Transport equipment** - Dog trailers, plant trailers, deck wideners, car transporters, tipper bodies, boat trailers
- **Material handling** - Conveyor systems, shafts, skip bins, silos, pipe grabbers, gear/shaft transporting frames, forklift attachments
- **Earth-moving equipment** - Excavator buckets / tilt buckets, auto lock quick hitches/ tilt hitches, dump truck bodies, rippers
- **Lifting equipment** - Gantry crane, jib crane, davit arm, crane runner way structures, spreader bars

➤ Design Analysis

- Hand calculations, finite element analysis and detail reports, suggestions for modifications

➤ RPEQ, CPEng Certifications

- Analysis is according to the requirements of Australian Standards, AS1418, AS4991, AS3990 and AS4100, etc.
- RPEQ/ CPEng certifications for both new or existing designs and products.

➤ Drafting

- Mechanical and structural detail drawings
- 3D/ solid modelling
- Converting old 2D drawings to 3D models

➤ Modification plates

- All heavy and light vehicle codes

➤ Research and Development

Our services

Structural Engineering

Our structural services include assessments, design, detail design, completed drawing package, finite element analysis and documentation of,

- Commercial development projects
- Residential development projects
- Retail development projects
- Industrial development projects

Areas of expertise

- Structural design
- Concept design integration
- Foundation and piling design
- Shoring and retaining structures
- Precast panel design
- Post tension concrete design
- Value engineering
- Steel frames /platforms/ mezzanine floor
- Handrails/ balustrades
- DA and CC documents
- Dilapidation reports
- Construction services and support
- Tilt-up designs
- Waste-water treatment plants
- Multi-story buildings
- RPEQ/ CPEng certification, Form 15 and Form 16 according to Australia Design codes AS1170, AS1657, AS3600, AS1554, AS4100, etc.

Our services

Process/ Chemical Engineering

Our process/ chemical engineering services include concept to detailed engineering, feasibility studies, debottlenecking, optimization, commissioning and operation support of,

- Municipal wastewater treatment/ sewage treatment plants
- Industrial wastewater plants
- Mining wastewater plants
- Chemical plants

Areas of expertise

- Concept design and scope development
- Feasibility studies
- Basic design including development of process flow diagram and piping and instrumentation diagrams
- Detailed engineering including line sizing, pump sizing and selection, control valve sizing, sizing equipment such as gravity thickener and lamella separators
- Debottlenecking and optimization of the existing facilities
- Plant safety inspection and assessment
- Recertification of existing facilities
- Commissioning and operational support
- RPEQ, CPEng certifications

Key Projects -Mechanical Engineering



Design, detail drawings, Design analysis and RPEQ certification of gear transport frame client – Bryan Industries (BHP Billiton)



Design, detail drawings and analysis of tipper body Client -QMW (South 32)



Static Rollover Threshold (SRT) verification-Saraji Mining project-TK041-TK042 Blast Truck, Client -BMA



Design, detail drawings and design analysis of deck widening tag trailer, client -FWR



Design, detail design and RPEQ certification of pipe grabber, Client – Titan Manufacturing



Design, detail drawing, design analysis of car transporter client -Cobra Manufacturing

Key Projects –Structural Engineering



Design, detail design, drafting, analysis and RPEQ certification of treatment plant –Cunnamulla QLD, client – Heal Group/ Pensar Water (Paroo shire council)



Design, detail design, drafting and RPEQ certification of conveyor platform, client –Century Yuasa batteries



Design, detail design, drafting and RPEQ certification of crane structure, client -Dunlop

Our Clients

