

# Position Description



Position Title	<b>Principal Mechanical Engineer</b>
Position No	00069112
Delegation Level	006
Job Designation	Engineering Officer
Organisational Unit	Plant Engineering SEQ Assets
Work Centre	Brisbane
Position Type	Permanent
Rail Safety Worker	Yes
Medical Fitness Standard	NHS Cat 3 ATTP
Performance Plan Type	Lead Others
Shiftworker	No
Classification (Range)	PT5 .1 - PT5 .4
Pay Scale Type	ASPT
Reports to Position	Manager Plant Engineering

## QUEENSLAND RAIL VALUES:

1 Queensland Rail - We do better together  
Treat others with respect - We appreciate everyone's contributions and differences  
Empower our people - We have confidence in our people  
Act Safely - We work safe, to go home safe  
Make a positive difference - We learn from today, to improve tomorrow

## Position Purpose

Provide specialist engineering services to Network for the specification, design, development, acquisition and maintenance of standard and railway specific plant including on-track maintenance equipment, materials handling equipment, cranes and managerial systems. Provide expert engineering advice to Network as required.

## Position Responsibilities

1. Manage all aspects of plant procurement contracts including developing technical specifications, producing contract documents, tender assessment, recommendations, contract administration, supplier management, commissioning and project reporting and also calculate commercial hire rates for all new plant.
2. Provide design and engineering services for the maintenance, upgrade and modification of Network specialised plant to ensure it meets operational performance requirements, high levels of safety, efficient operation in all industry, Queensland Rail and legislated standards and codes.
3. Provide expert advice on all engineering matters concerning the Network track machine fleet and assist Network Divisions with procurement, modification, upgrade or design of this plant.
4. Provide development and maintenance of all mechanical design and engineering processes in the Plant Engineering Section and ensure these processes meet all industry, Queensland Rail and legislated standards and codes using a risk management based approach.
5. Scope, resource and cost projects for Network production units and apply best practice project management principles to ensure that project objectives are achieved and manage the portfolio of projects being undertaken by the Unit for priority and resources.
6. Monitor performance and compliance of Network's plant fleet and

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investigate where non-compliance or poor performance is identified and recommend corrective actions or improvements that may lead to increased efficiency, productivity and safety.

7. Remain abreast of industry developments and undertake feasibility studies on new processes for Network plant users, including researching and developing new types of plant, plant modifications to improve performance, improvement of maintenance procedures, revision of operations process, undertaking research and development projects.
8. Manage, lead and co-ordinate teams of Queensland Rail staff to achieve defined project objectives, review staff performance and provide feedback to assist staff development and manage the team's skill and knowledge portfolio.

## Additional Factors

The appointee will be required to :-

- Comply with Queensland Rail's Code of Conduct;
- Observe all legal and safety obligations of the organisation;
- Travel intrastate, interstate and overseas as necessary;
- Attend additional training as required;
- Operate in an autonomous manner and with initiative within broad guidelines and policy established by the Manager Plant Engineering.

## What is the key selection criteria

1. Extensive knowledge of the design, operation and maintenance of Queensland Rail specialised track maintenance plant and/or materials handling plant and trucks.
2. Extensive knowledge of the design of hydraulic, hydrostatic and pneumatic systems and the design of mechanical systems and structures.
3. High level of skill in project management, contract management and also communication, negotiation and consulting with Plant Engineering's customers and suppliers.
4. High level of skill developing design and engineering processes to ensure service quality and compliance with all internal governance, legislative requirements and risk management principles.
5. High level of skill in the application of Australian Standards, Australian Design Rules, Code of Practice for Plant, internal standards and specifications relating to plant and the Work Place Health and Safety Act.
6. Substantial skill in leading a team of professional engineering and technical staff to achieve strategic business plans and commercial objectives.
7. Knowledge of and willingness to commit to and work within Queensland Rail's Values and Behaviours.

## Pre-employment Checks:

Not Applicable

## Pre-employment Qualifications:

### What qualifications do I need to hold prior to applying for the position?:

Must hold a Tertiary Qualification in Mechanical Engineering acceptable for admission to corporate membership of the Institution of Engineer's Australia or equivalent qualification.

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## **Health, Safety and Environment Responsibilities**

Comply with the overarching document called Health, Safety and Environment Responsibilities MD-11-6843 located in the Safety and Environment Management System.

## **Personal Protective Equipment needs:**

Refer to relevant business instructions.

## **Safety Publications**

Refer to relevant business instructions.

### **Please Note:**

Queensland Rail has a random alcohol and other drug testing program.  
Testing can occur anywhere, at any time, on any day.