

Position Description



Position Title	Senior Electrical Engineer
Position No	00076849
Delegation Level	007
Job Designation	Engineer Electrical
Organisational Unit	Rollingstock Specialist Engineering SEQ Assets
Work Centre	Mayne
Position Type	Permanent
Rail Safety Worker	Yes
Medical Fitness Standard	NHS Cat 3 ATTP
Performance Plan Type	Team Member/Tech Prof
Shiftworker	No
Classification (Range)	PT4 .1 - PT4 .4
Pay Scale Type	ASPT
Reports to Position	Principal Electrical Design Engineer

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

This role is primarily responsible for performing electrical engineering functions to improve the safety and performance of rollingstock to ensure rollingstock availability, reliability and cost effectiveness.

Position Responsibilities

1. Provide technical assistance and advice to Rollingstock Maintenance.
2. Be familiar with and understand the principles and practices of the Queensland Rail standards, relevant legislation including the Queensland (QLD) Electrical Safety Act and business requirements to develop and establish designs and modifications for the maintenance and operation of rollingstock.
3. Monitor rollingstock performance, carry out tests, analyse and make recommendations to improve the reliability and performance of rollingstock and associated equipment.
4. Conduct quality audits on rollingstock maintenance procedures and practices in accordance with established standards.
5. Develop scopes of work, specifications, instructions, design drawings and other documents to the required standards in relation to rollingstock component reliability while reducing maintenance costs.
6. Provide technical support to servicing facilities and evaluate the suitability of equipment and work practices used in relevant depots and the impact to rolling stock systems.
7. Manage safety, reliability and cost improvement projects in relation to rollingstock modifications, upgrades and general maintenance.
8. Investigate new technologies and develop electrical systems to enhance the safety and reliability of the Queensland Rail rollingstock fleet.
9. Liaise with technical and trade staff and other Queensland Rail

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staff and contractors regarding rollingstock maintenance issues.

10. Mentor and coach junior engineers to maximise team performance by providing performance feedback, advice, encouragement, training and professional development.

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;
- Attend further training as directed;
- Be available to travel away from home station as required;
- Undergo annual performance appraisal.

What is the key selection criteria

1. Extensive knowledge of the technical operation, maintenance requirements, servicing and repair of passenger rollingstock and associated equipment.
2. High level of skill in undertaking technical investigations, rollingstock tests, problem solving, component failure analysis, trial modifications and preparation of technical reports.
3. High level of skill in developing and continuously improving electrical and/ or mechanical systems, strategies, scopes of work and modifications to improve rollingstock performance, reliability, safety and cost.
4. High level of skill in formulating procedures, quality principles and introducing new technologies for the purchase of new components and maintenance of existing equipment.
5. High level of skill in leading, mentoring and training personnel in the theory and maintenance of rolling stock.
6. High level of communication, consultation, negotiation and engagement skills with a range of internal and external stakeholders and suppliers.
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?:

20100220 Bach Eng - Elec

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:

Head and Face protection
Eye Protection
Hearing Protection
High Visibility Clothing
Safety Footwear

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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.