Position Description



Position Title Senior Electrical Engineer

Position No 00088842 Delegation Level 006

Job Designation Engineer Senior

Organisational Unit Rollingstock Maintenance Engineering

Regional Rollingstock

Work Centre Brisbane Position Type Temporary

Rail Safety Worker Yes

Medical Fitness Standard NHS Cat 3 ATTP

Performance Plan Type

Shiftworker No

Classification (Range) PT4 .1 - PT4 .4

Pay Scale Type ASPT

Reports to Position Manager Maintenance 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

To provide senior-level electrical engineering expertise and advice in support of capital project delivery of rollingstock, including leading the design integration, verification and validation of electrical systems into the rollingstock, to improve safety, reliability, and performance.

Position Responsibilities

- Provide expert technical advice and support for the electrical design and production activities associated with rollingstock upgrade and modification projects.
- 2. Apply Queensland Rail standards and relevant legislation including the Queensland Electrical Safety Act to ensure compliance in the design and integration of new rollingstock systems.
- 3. Conduct engineering investigations into system performance, design verification and validation, and build-readiness by developing plans, analysing data and performing tests, to provide recommendations to improve reliability and support production outcomes.
- 4. Develop project scopes of work, specifications, instructions, design and any other documents to the required standards ensuring alignment with project milestones and technical requirements.
- 5. Manage safety, reliability, and cost improvement initiatives in relation to rollingstock design, modification, and production support.
- Investigate new technologies and develop electrical and/or mechanical systems for integration into rollingstock to enhance safety, reliability, and operational efficiency.
- 7. Conduct quality reviews and design audits to validate engineering outputs and ensure readiness for production in accordance with established standards.



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- Liaise with technical and trade staff, and contractors to support the execution of the project objectives and resolve design-related issues.
- Mentor and coach junior engineers involved in the project 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;

What is the key selection criteria

- Extensive knowledge of electrical design principles and rollingstock systems, particularly in relation to traction and cab technologies and associated equipment.
- 2. High-level skill in developing and integrating electrical and/or mechanical systems, scopes of work, and modifications to meet project-specific performance, safety, and compliance goals.
- High level of skill in conducting fault-finding investigations, utilising computer-based testing equipment to analyse component failures and deliver clear technical reports and actionable recommendations.
- 4. High level of skill in producing high-quality design documentation, applying quality principles, and integrating new technologies within a project delivery context.
- 5. High level of skill in leading, mentoring and training engineering personnel within a design and production support environment.
- 6. High level of communication, consultation, negotiation and engagement skills with a range of internal and external stakeholders and suppliers with a focus on cross-functional collaboration during project execution.
- 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 40008657 NHS Cat 3 ATTP

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.



Position Description



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.

