

Position Description



Position Title	Rail Systems Engineer
Position No	00083327
Delegation Level	006
Job Designation	Manager
Organisational Unit	CRR Tunnel Station Development Major Projects Delivery
Work Centre	Brisbane
Position Type	Permanent
Rail Safety Worker	No
Medical Fitness Standard	Refer to relevant business instructions.
Performance Plan Type	Manager of Others
Shiftworker	No
Classification (Range)	Contract
Pay Scale Type	Contract
Reports to Position	Senior Manager Technical Integration

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 program-wide systems engineering capability within the Program Integration team to apply systems engineering discipline across configuration states throughout the program lifecycle, enabling Queensland Rail to safely design, integrate, assure, accept and operate complex rail infrastructure, systems and assets in alignment with operational, safety and regulatory requirements.

Position Responsibilities

1. Apply systems engineering governance frameworks and industry best practice to support program-wide integration outcomes that are safe, reliable and fit for purpose.
2. Lead and undertake systems engineering activities across configuration states, including requirements definition, design assurance, integration, testing, commissioning, acceptance and transition to operations.
3. Develop and manage the systems to satisfy the QR Railway Configuration Change management and Governance Framework requirements as follows:-
 - Prepare Railway Integrity Assurance Plans and Railway Integrity Assurance Reports (as required)
 - Manage the drafting and determination of Safety and Environment Management Systems (SEMS), standards, specifications and procedures where required to document risk treatments for safety risks and legislative requirements.
4. Maintain a holistic and comprehensive system view that factors in all aspects of technology and business operational requirements to enable improved business performance and customer outcomes.
5. Undertake systems engineering activities through the project lifecycle, delivering all necessary content and artefacts including

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defining and scoping customer needs and required functionality, system specifications, concept of operations, validation and assurance and ensuring all project documentation is collected and stored appropriately.

6. Lead the development of technical options, operations concept, system modelling, and concept evaluation leading to a technical solution recommendation that balances both technical and non-technical considerations.
7. Implement technical management activities including planning, risk management and system configuration management to ensure ongoing system integrity.

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;
- Enter into a term contract;
- Travel intrastate and interstate.

What is the key selection criteria

1. Extensive knowledge in applying systems engineering frameworks and best practice methodologies to support integrated, safe and reliable program outcomes.
2. High level of skill in leading systems engineering activities across all configuration states, including requirements definition, design assurance, integration, testing, commissioning and transition.
3. Extensive knowledge in developing and managing systems, documentation and governance artefacts to support compliance with organisational configuration management and assurance frameworks.
4. High level of skill in maintaining a holistic systems view that considers technology, operations and business needs to ensure effective solution design and improved customer outcomes.
5. Extensive knowledge in delivering systems engineering lifecycle activities, including needs analysis, specifications concepts of operation, validation, assurance and technical documentation management.
6. 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?:

20100190 Bachelor of Engineering

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.

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Safety Publications

QR Weekly Notice
Annual Safety Plan
C.E.O.'s Safety Statement
C.E.O.'s General Safety Rules
Alcohol and Drugs

Please Note:

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