

Position Description



Position Title	Railway Systems Engineering Lead
Position No	00083505
Delegation Level	006
Job Designation	Manager
Organisational Unit	ETCS Alliance (QR) 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 ETCS 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

With respect to the Railway Infrastructure Projects, lead the development and management of system engineering services to delivery teams and providing technical oversight and direction for the development of safety cases and hazard analyses for complex systems.

The role will be required to interface closely with internal and external stakeholders throughout the project to ensure asset delivery in accordance with contract and Rail Transport Operator's (RTO) requirements.

Position Responsibilities

1. Apply systems engineering governance frameworks that applies best practices and industry leading methodologies and support projects in delivering outcomes that are safe, reliable and fit for their intended purpose.
2. Manage the identification and undertaking of all necessary assurance to ensure a safe, reliable, efficient and sustainable network.
3. Develop and manage the systems to satisfy the Queensland Rail (QR) Railway Configuration Change management and Governance Framework requirement as follows:
 - Prepare Railway Integrity Assurance Plans and Railway Integrity Assurance Reports (as required); and
 - 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. Develop key safety strategies and associated plans targeted at improved project delivery outcomes.
5. Review new and existing system designs and make recommendations for

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- improving or altering the systems.
6. Maintain a holistic and comprehensive system view that factors in all aspects of technology requirements and business operation that enables greater business successes and customer outcomes.
 7. Undertake systems engineering activities through the project lifecycle as required by management, delivering all necessary content and artefacts including defining and scoping customer needs and required functionality, system specifications, concept of operations, validation and assurance and that all project documentation is collected and stored.
 8. Lead the development of technical options, operations concept, system modelling, and concept evaluation leading to a technical solution.
 9. Implement technical management activities including technical planning, technical 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. High leadership and strategic direction setting skills including working in a flexible manner in a team.
2. High level of interpersonal and communication skills relevant to managing procurement of professional and technical services and advice.
3. Extensive knowledge of metro style railway systems including Tunnel ventilation Systems, signalling and telecommunications infrastructure systems, their interfaces, technical aspects and technical standards.
4. High level of skills to integrate complex technical issues into outcomes with a business focus.
5. Substantial knowledge of governance, risk and compliance and its application to the regulation and risk mitigation for the construction, maintenance and operation of railway infrastructure.
6. Substantial knowledge of railway operations and business imperatives.
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?:

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

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.