

Position Description – ETCS Signalling Specialist

POSITION DETAILS

Department / Team: European Train Control System	Reports to (title):
# Direct Reports: 0	# Indirect Reports: Nil
Location: Brisbane	

THE CROSS RIVER RAIL PROJECT

Cross River Rail is a new 10.2km rail line including 5.9km of twin tunnels running under the Brisbane River and CBD that will unlock a bottleneck at the core of the rail network and will transform the way we travel across the whole of Southeast Queensland.

It will include four new underground stations – at Albert Street, Boggo Road, Roma Street and Woolloongabba - through the middle of Brisbane, provide new above-ground stations at the RNA Showgrounds and Dutton Park, upgrade six stations between Fairfield and Salisbury, deliver three new stations on the Gold Coast and introduce a new world-class signaling system to the wider SEQ rail network.

Once Cross River Rail is operational, journeys will be quicker, stations will be in more convenient locations and there will be capacity to increase train services as our population grows. Making public transport a more viable option for the whole region and helping to ease congestion on our roads.

Further Information: www.crossriversrail.qld.gov.au

OUR VALUES & BEHAVIOURS



WE COLLABORATE

- We treat each other with respect and speak up when this doesn't happen.
- We share information to help everyone be successful.
- We have honest conversations, no agendas or surprise.
- We are curious, asking questions to understand.
- We work through issues together and help each other



WE INNOVATE

- We are inclusive, listening to and encouraging differing views.
- We challenge and push the boundaries.
- We apply and share our knowledge to do better.
- We seize our opportunity to set new standards and benchmarks



WE DELIVER

- We act safely at all times.
- We do what we say we will do and when we will do it.
- We understand our individual role and how it fits into the project's success.
- We take responsibility for our work and speak up when we need help.
- We are committed to continuous development and take every opportunity to review, learn and improve the way in which we are delivering the project

ROLE OVERVIEW

The purpose of the position is to provide ETCS expertise within the Delivery Authority and to participate in ETCS Sequence Alliance system engineering activities to enable the successful integration of ETCS into other Cross River Rail packages and existing rail infrastructure and ensure the best outcomes for the project. The role will perform detailed reviews, ensure compliance and provide input into detailed designs, performance modelling, systems architecture, systems engineering plans, system assurance and contractor submissions with an emphasis on wayside subsystems elements.

The position will also interface with other key stakeholders and disciplines involved in delivering these services including rollingstock, conventional signalling, traffic management systems, traction and systems engineering.

KEY RESPONSIBILITIES

- Contribute to and support ETCS system engineering activities to provide on-time delivery of feasibility, outline and detailed design of ETCS schemes, including:
 - knowledge of ETCS UIC Subsets and experience in adopting the requirements to design
 - analysis and reviews of performance modelling
 - development and review of performance and technical specifications
 - detailed design and delivery understanding of process and procedures in collaboration with contractors and suppliers
 - review ETCS Systems Architectures and the inter-actions between the subsystem constituents
 - project assurance and governance
 - all categories of rail from high speed, regional, commuter and metro services, light rail and automated people movers.
- Interface with other key disciplines involved in delivering these services including: rollingstock, conventional signalling, train control and traffic management systems, railway communications, all forms of traction, permanent way, systems engineering (including specialist areas such as safety, RAM, EMC, HF), performance modelling (including timetable, network and power modelling) and asset management.
- Provide input into system engineering plans and processes to cover requirements management, systems evaluation, systems acceptance, interface management, system integration, systems assurance and RAMS.
- Review contractor submissions and assess compliance against ETCS Subsets and Standards.
- Review contractor submissions and assess compliance against Project Requirements contained within Scope and Performance Requirements (SPR) and Performance, Scope and Technical Requirements (PSTR).
- Review contractor submissions and assess compliance against Operational Concepts and Scenarios.
- Represent the Delivery Authority when witnessing site integration testing and acceptance activities.
- Take budgetary and planning responsibility for those allocated activities where required.
- Foster close relationships with stakeholders within the Delivery Authority team, Queensland Rail and contracting parties.
- To work in accordance with the Delivery Authority policies, procedures and safety requirements and demonstrate alignment with our values and behaviours

KEY COMPETENCIES

The successful candidate will be able to demonstrate the following key competencies:

- Thorough knowledge of ETCS standards, rail signalling principles, and systems integration with experience delivering ETCS projects and managing interfaces to enable authoritative reviews, advice and guidance on technical specifications, project plans and emerging issues.
- Strong technical problem-solving skill and attention to detail.
- Strong communication skills with the ability to clearly explain ETCS signaling principles and technology with colleagues, clients and engineers of other disciplines, both verbally, or through specifications and drawings/diagrams.
- Proven experience in taking responsibility, working with initiative and independence and as part of a team and adapting to meet sudden changes in expectations, priorities and deadlines.
- Highly developed collaboration and relationship management capabilities enabling effective engagement and issues resolution with a wide range of stakeholders.
- Relevant Tertiary Engineering qualifications or equivalent industry experience.