

Job Title	Light Rail Project Engineer
Team	Public Transport/BSW
Reporting To	Light Rail Engineering Manager

About your role

The role is required to support the asset renewal activities (Mass Transit and CRSTS) by providing engineering input into projects, ensuring works are specified, designed and constructed to the desired quality and reliability to realise the benefits required. Working as part of SYMCA's Tram Team, who manage the day-to-day concession with the tram operator, you will be required to work very closely with the Renewals (Mass Transit/CRSTS) Project team, acting as the lead interface with various internal and external stakeholders to ensure the successful delivery of engineering projects.

Why is your role important or how does it add value?

- Through ensuring SYMCA's requirements as asset owner and operator requirements are captured and fed into the specification of the renewals works.
- Through ensuring that designs procured by consultants are reviewed and validated to ensure the requirements have been met and risks to construction, integration, operations and maintenance understood and addressed, especially relating to technical interfaces.
- You will ensure that contractors' method statements and risk assessments are robust and that risks to working in the light rail/highway environment have been adequately understood, alongside ensuring that risks to the introduction of new infrastructure and/or vehicles on operations, maintenance and future renewals addressed.
- Through ensuring that works undertaken by contractors are completed in a safe manner with the correct quality controls in place and undertaking client verification where required.
- You will ensure the operator is consulted throughout the project, from design through to construction and commissioning phase to ensure assets are successfully brought into use.

What are the tasks or work areas you are responsible for?

- Prepare technical briefs on development projects, identifying appropriate design standards and eliciting engineering requirements for renewals and enhancements work.
- Review tenders and proposals from contractors evaluating the technical aspects as required by SYMCA's project management team in order to ensure they meet SYMCA's tender requirements and meet the technical issues trying to be resolved.
- Support the production of designs for renewals and enhancement works on Supertram ensuring the design deliverables provided meet the project outcomes.
- Ensure that any changes are proactively risk assessed and controlled to ensure that all risks are managed as low as reasonably practicable.
- Review proposed specifications, designs and delivery of multi-disciplinary engineering associated with projects, providing technical acceptance of these documents.

- Undertake reviews/audits of design and/or construction activities, monitoring safety, environmental impacts and the quality of design, construction, testing and commissioning activities, and ensuring that required management systems are adequate.
- Ensure that any changes to the tramway are proactively risk assessed and risks controlled to ensure that all risks are managed 'as low as reasonably practicable' ALARP.
- Identify and manage project defects and quality issues during construction, hand back and the initial operation period, maintaining records to ensure issues are closed out as required.
- Manage the relationships between consultants' and contractors' proposals to ensure that they meet SYMCA's requirements as asset owners and liaise with SYSL on matters concerning operations.
- Undertake site visits across the Supertram network to undertake site inspections and address urgent technical matters
- Review method statements, risk assessments, health & safety files, project documentation and hand back information
- Manage the engineering aspects of project hand back into maintenance and operation.
- Undertake any other duties commensurate with the role as requested by management

About You

What kind of **behaviours** are important?

Ambition	Does not give in easily, prepared to stick at things to get something finished – persistent.
	A consistent and persistent focus on what matters most for delivery
Innovative	Demonstrates good judgement, capable of making decisions with limited information quickly to ensure initiatives are implemented.
	Willing to be challenged by colleagues – and to bring constructive challenge and support.
Integrity	Organised and structured in how they work, demonstrating good personal time management.
	Consistently applies a high level of attention to detail, even when faced with time pressures.
Collaborative	Has the self-confidence to admit mistakes or errors when debating and working with others.
	Willingly adapts their style to suit different situations
Flexible	Moves quickly to get things done, invests additional effort if needed to meet a deadline or goal.
	Open minded and receptive to new ideas and suggestions, acknowledges the benefit of change even if they have personal concerns.
Impact	Understands the purpose of the organisation, knows the vision and the strategic intention of the organisation.
	Sees opportunities to make processes or how they work better, speaks up and shares their ideas.

What **qualifications** or wider knowledge do you need?

What qualifications or wider knowledge do you need?	E/I	A/I
Degree level, HND or equivalent in relevant field (ideally an engineering discipline) or equivalent level of professional experience	E	A
Educated to A-level standard in a relevant subject or equivalent (including GCSE English & Maths (A to C) or equivalent)	E	A

Knowledge of light or heavy rail engineering, with a broad understanding of the following disciplines and their interdependencies: <ul style="list-style-type: none"> - Civils - Track - Electrification & power including overhead line electrification - Signalling & telecoms - Stops and customer facing assets 	E	A/I
Knowledge of information management in the context of engineering and asset management	D	A/I
Knowledge of the principles of whole-life costing for assets	D	A/I
Working knowledge of relevant light rail legal requirements, standards, codes and best practice	D	A/I
Either professionally qualified with an engineering institution or working towards qualification	D	A

What previous experience is needed?	E/D	A/I
Previous experience in design and/or construction and/or maintenance	E	A
Previous experience working in an engineering/asset management role	D	A/I
Previous experience of managing the performance of suppliers relating to the design and/or construction of engineering assets	E	I
Experience in aspects of the planning, design, construction, testing and commissioning, operation and maintenance of light rail systems.	D	A
Experience of managing technical interfaces between various disciplines	D	A/I
Experience of procurement/contracts related to design and/or construction	D	A/I

What skills should you have?	E/D	A/I
A confident communicator, both verbally and in writing, possessing strong influencing and negotiation skills with demonstrable experience of leading teams or functions through change to achieve overall goals	E	I
Highly numerate and able to think commercially in relation to income generation and expenditure contracts, with the ability to make assessments of alternative business proposals, and to think creatively about options	E	I
High professional standards with the ability to work on own initiative and perform duties with a high degree of tact and diplomacy.	E	I
Knowledge and experience of using technological solutions to improve service delivery	E	A/I
Ability to work with various stakeholders and influence their work to achieve the required outcomes/benefits for the task in hand	E	I
Ability to adopt an effective approach to problem-solving, adapting to changes in circumstances or information.	E	I
Maintaining, updating, and improving contractual records.	E	I

Key

E = Essential / D = Desirable

A = Application form / I = Interview