



Job Description Form

Our Purpose

To provide safe, customer-focused, integrated and efficient transport services.

Position Title

Senior Digital Engineer

Level

6

Position Number

34862

Division/Directorate

Network and Infrastructure

Branch/Section

Asset & Engineering Management

Effective Date

July 2023

Health Task Risk Assessment Category

5

Reporting relationships

Superordinate: Manager Information & Data Analytics, Level 7

Subordinates: Asset Information Coordinator, Level 5 (x2)

Key role of this position

Responsible for the development and implementation of a unified approach to Digital Engineering integrating graphical, non-graphical, file and database formats of information within the Network & Infrastructure (N&I) Division and interfacing across the Public Transport Authority (PTA)) and stakeholders. The position will have responsibility for leading activities to achieve fit for purpose Digital Engineering across people, policy, process and technology to realize best practice Asset Management.

Core duties and responsibilities

Leadership

- Leads the management of Digital Engineering within N&I and owns the processes for Information Management across the PTA for rail related applications.
- Leads the PTA wide programme to improve Digital Engineering requirements definition, and deliverables assurance.

Digital Engineering Management

- Works with stakeholders to create the Digital Engineering Strategies for PTA rail related applications.
- Researches, develops and implements Digital Engineering information management systems and ancillary information modelling systems.
- Develops the Digital Engineering capability required for all asset classes based on current and future intervention strategies.
- Works with internal and external stakeholders to agree the Digital Engineering processes, tools and content to achieve the overall PTA requirements.
- Considers options for future developments in Digital Engineering management including new technology, international and other best practice standards.
- Looks for opportunities to improve the efficient management of Data and Information using Digital Engineering principles.
- Provides specialist advice, documentation and training relating to the interpretation and use of Digital Engineering and Modelling tools.
- Leads the risk management and mitigation of Asset Information across all areas relevant to the functions; reducing risk levels to an acceptable level this ensuring decision making based on reliable and accurate information.

Consultation and Stakeholder Relationships

- Collaborates with stakeholders in establishing a clear vision and proactively seeks out opportunities to achieve deliverables.
- Identifies and consults with internal and external stakeholders and experts on the development and improvement of Digital Engineering and information management, initiatives and improvements for the PTA.
- Represents the PTA on committees, and at appropriate forums.

SELECTION CRITERIA

1. Core Competencies

- Substantial experience working within an operational asset information management or modelling environment with a range of data and information types.
- Considerable experience with the analysis of data and information, identifying enhancement and improvement opportunities.
- Good understanding of data and information across the whole asset lifecycle.
- Experience in the preparation and management of policies, procedures and strategies in a complex infrastructure organisation.
- Considerable demonstrated expertise with Common Data Environments, Building Information and Federated Modelling tools with an understanding of Computerised Maintenance Management Systems (CMMS) and the ability to lead best practice governance

2. Leadership and Management

- Well developed leadership skills including the ability to engage and motivate people to achieve outcomes.

3. Communication and Interpersonal

- Highly developed communication skills, including an ability to facilitate and negotiate outcomes.
- Ability to write concise and well-structured reports and other relevant documents.
- Highly developed relationship management skills, including the ability to develop stakeholder partnerships and to establish and maintain reliable networks.

4. Conceptual, Analytical and Problem Solving

- Well developed conceptual, analytical and problem solving skills, including the ability to think laterally in order to provide appropriate solutions to complex problems.

5. Special Requirements

- Satisfactory completion of required medical examinations to verify physical fitness to perform the duties of the position.
- Provision of a current National Police Clearance certificate, dated 3 months or less from the date of application for the position.
- Possession of a current Western Australian 'C' or 'C-A' Class Driver's License or equivalent.

Certification

The details contained in this document are an accurate statement of the duties, responsibilities and other requirements of the position.

Managing Director / Executive Director / General Manager

.....
Signature

.....
Date

Employee

I have read and accept the responsibilities of the Job Description Form.

The position's duties are to be performed in accordance with the PTA's Code of Conduct and the PTA's Values.

.....
Signature

.....
Date