



## Job Description Form

### Our Purpose

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

**Position Title**  
Reliability Engineer

**Level**  
6

**Position Number**  
35437

**Division/Directorate**  
Transperth Train Operations

**Branch/Section**  
Mechanical Engineering

**Effective Date**  
November 2021

**Health Task Risk Assessment Category**  
3

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### Reporting relationships

Superordinate: Principal Engineer, Level 7

Subordinates: No Direct Reports

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### Key role of this position

Provides engineering support with respect to the optimisation, reliability and availability of new and existing rollingstock assets using reliability engineering principals and processes. Plays a key role in achieving long term, measurable improvements in safety, performance and efficiency of the Public Transport Authority's (PTA) electric and diesel rollingstock assets.

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### Core duties and responsibilities

#### Reliability Engineering

- Records and analyses rollingstock fleet performance data to identify opportunities for sustainable improvement in fleet safety, quality, maintainability, availability, and reliability.
- Identifies and manages reliability and availability risks that could adversely affect PTA's regional and metro rollingstock operations.
- Develops and implements initiatives to improve PTA's rolling stock fleet performance while reducing maintenance costs.
- Contributes to the development of asset management plans for the PTA's rollingstock assets.
- Adheres to best practice asset management process throughout the life cycle of new and existing rollingstock assets.
- Implements reliability centred maintenance best practice in the form of defect elimination, root cause analysis, and failure mode effect cause analysis.
- Liaises with contractors and other sections of the PTA in relation to rollingstock maintenance and operations.

#### Quality Control and Safety

- Complies with PTA Safety and Risk policies and National and State Rail Safety legislation.

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## SELECTION CRITERIA

### 1. Core Competencies

- Possession of a relevant engineering qualification and experience acceptable for admission as a member of the Institute of Engineers (Australia) in the category of Professional Engineer (MIEAust) or substantial experience in a relevant field.
- Experience in maintenance and reliability of heavy mobile equipment and/or rollingstock engineering.
- Experience using computerised maintenance management systems software.

### 2. Management and Leadership

- Sound leadership and management skills, including an ability to:
  - Effectively manage physical, human and financial resources to achieve agreed outcomes, budget and deadlines.
  - Provide clear advice, direction and appropriate feedback to team members.
- Experience in leading, motivating, mentoring and developing staff is highly desirable.

### 3. Communication and Interpersonal

- Well-developed written and verbal communication skills.
- Good interpersonal skills, including the ability to:
  - Build and maintain positive working relationships with a wide range of stakeholders.
  - Work constructively and collaboratively in a team environment.
  - Negotiate effectively.

### 4. Conceptual, Analytical and Problem Solving

- Well-developed conceptual, analytical, decision making and problem-solving skills.
- Experience with root cause analysis and risk assessments.
- Ability to quickly learn and apply complex technical information.

### 5. Organisation

- Well-developed organisational skills, including the ability to achieve agreed targets and timelines.

### 6. 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 Drivers Licence or equivalent. This requirement continues for the duration of employment in this position and from time-to-time production of the licence on request by the Authority may be required.
- PTA Supervised Worker (SW) Track Access Permit

**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**