

# JOB ROLE STATEMENT

## ROAD ASSET MODELLING SPECIALIST LEVEL 6

**DIRECTORATE**  
**BRANCH**

CENTRAL AND NORTHERN REGIONS  
NETWORK MANAGEMENT

**POSITION NO** P0059006

### KEY RESPONSIBILITIES

Plan, develop and maintain complex road asset modelling systems and analytical tools. Manage Main Roads' Pavement Management System to produce and review strategic and operational road programs and investment scenarios.

### KEY DELIVERIES

#### Asset Preservation Modelling

- Research, develop and implement road pavement and surfacing modelling systems and related information systems, based on sound engineering principles, including but not limited to pavement and surfacing deterioration rates, treatment types and work effects.
- Pavement and surfacing modelling, using the Pavement and Surfacing Management Systems, to produce:
  - long-term strategic pavement and surfacing preservation needs optimised to minimise whole-of-life cycle costs in the context of various investment/funding scenarios
  - provide specialist input for the development of operational road programs and schedules (10 year) in support of asset management decision making and investment planning
- Integrate asset configuration deficiencies and future needs with modelled road asset preservation needs, in the formulation of Asset Management Plans (AMP), Route Plans and investment programs.
- Provide specialist advice, documentation and training relating to the interpretation and use of pavement and surfacing management system outputs as well as ancillary information systems outputs.
- Collaborate with regional stakeholders in the development of regional asset preservation models.
- Collaborate with regional asset managers, Materials Engineering Branch (MEB) and Asset and Geospatial Information Branch (AGI) in the development of road asset modelling systems.
- Contribute to the development of decision support tools including business intelligence tools.

#### Leadership and Management

- Develop and adopt established quality management practices to ensure areas of accountability are appropriately planned, controlled and improved.
- Develop staff to ensure asset modelling capability is sustained in the organisation into the future.
- Manage projects and consultant relationships.
- Manage financial, technological, physical and other resources within agreed allocations to meet agreed outcomes.
- Manage employee behaviour, performance and development.

#### Stakeholder Relationships

- Liaise with internal and external stakeholders and counterpart specialists on the development and updating of asset performance models, and 'whole-of-life' cycle costing models.
- Represent the Asset Modelling and Analytics Manager on relevant state and national committees, and at appropriate forums.

### SAFETY, HEALTH AND WELLBEING (SHW)

Responsible for active participation and performance to SHW standards as detailed by the Main Roads' Safety, Health and Wellbeing (SHW) Management System - refer to "SHW Roles and Responsibilities Procedure" on 'iRoads' intranet.

### LOCATION

Main Roads is a regionalised organisation with key delivery centres operating from the Kimberley to the Great Southern regions, including the metropolitan area. The incumbent of this position may be required to undertake a role in a region for a period of time.

### DYNAMIC RESOURCING

The incumbent of the position may be required to perform any other role within the incumbent's level of skill, competence and responsibility as directed by the Managing Director of Main Roads to meet the organisation's objectives and the incumbent's development.

### REPORTING RELATIONSHIPS

*This position reports to:*

(A) **TITLE AND LEVEL**

ASSET MANAGEMENT MODELLING AND ANALYTICS MANAGER

LEVEL 7

**POSITION NO**

P0070122



# ROAD ASSET MODELLING SPECIALIST LEVEL 6

**POSITIONS UNDER DIRECT SUPERVISION**

List the position numbers, titles and levels of positions directly supervised

TITLE and LEVEL	POSITION No	CATEGORY	NUMBER
Road Asset Modelling Officer	LEVEL TBA	Salaried, Wages	TBA
TOTAL			TBA

**ALL POSITIONS UNDER CONTROL**

State number of positions only

**SELECTION CRITERIA – SHOULD BE ADDRESSED IN THE CONTEXT OF THE ROLE****ESSENTIAL:**

- Substantial skill, knowledge and experience in:
  - road asset management
  - road asset modelling systems (e.g. Infrastructure Asset Management Program (dTIMS) or similar)
  - formulation of quality processes and procedures
  - data analysis to discover operational insights, trend analysis and relationships between variables
  - building and enhancing stakeholder relationships
  - managing financial, technological, physical and other resources within agreed allocations to meet agreed outcomes
  - managing employee behaviour, performance and development
- Knowledge of:
  - mathematical modelling for problem solving purposes
  - pavement engineering and/or road maintenance practices
  - risk management principles and practices
  - policies and practices on Occupational Safety and Health, and on EEO, diversity and equity
- Possession of a current Western Australian 'C' Class (car) motor vehicle drivers licence or an approve equivalent.

**DESIRABLE:**

- A Degree in Civil Engineering.

**CERTIFICATION**

1. The details contained in this Job Role Statement have been reviewed and conform to Main Roads guidelines.

SIGNATURE

BRANCH/SECTION HEAD

DATE

8/10/2018

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

SIGNATURE

EXECUTIVE DIRECTOR

DATE

8/10/2018

3. The details contained in this document have been reviewed and conform to Main Roads guidelines.

SIGNATURE

MANAGER HR BUSINESS

DATE

8/10/18