

JOB ROLE STATEMENT

STRUCTURAL ENGINEER SPECIFIED CALLING - LEVEL 2

DIRECTORATE PLANNING AND TECHNICAL SERVICES
BRANCH STRUCTURES ENGINEERING **POSITION NO** P0059390 / P0059407 / P0059419 / P0059420
P0060586 / P0061233 / P0061234 / P0061235
P0061528 / P0061541

KEY RESPONSIBILITIES

Perform investigation and design of bridges and associated structures, and assessment of bridge heavy load movements. Perform structures asset management tasks. All performed under general direction and more complex tasks under professional supervision.

KEY DELIVERIES

Bridge Design

- Perform investigation and design of new bridge structures.
- Perform maintenance and refurbishment design for existing bridges.
- Prepare design briefs, technical specifications and contract documentation.
- Develop standards and processes for bridge design.
- Review consultant design projects as required.

Structure Asset Management Planning

- Carry out bridge and other structures inspections and determine bridge maintenance needs.

Bridge Heavy Loads Movements

- Perform the assessment of heavy loads and endorsement of heavy load permits.
- Maintain the heavy loads records and database.

Bridge Rating

- Perform the detailed load rating of bridges to determine safe load capacity.
- Update vehicle load ratings for all bridges and the recommendations on posting of load limits for under strength bridges.
- Investigate effect of and make recommendations for the attachment of services to existing bridges.
- Undertake structure related research projects, analyse and interpret results.

Waterways Design

- Perform investigation, concept and detailed waterway design for structures.

Stakeholder Relationships

- Liaise with other Branches, Directorates, Regions and Government authorities and the community.

The Job Role Statement above broadly covers aspects of the works of the Structures Engineering Branch. The occupant of the position is not expected to carry out all of the duties stated concurrently.

OCCUPATIONAL SAFETY, HEALTH AND WELLBEING (OSH&W)

Responsible for active participation and performance to OSH&W standards as detailed by the Main Roads' Safety, Health and Wellbeing (SH&W) Management System - refer to "SH&W Responsibility and Accountability 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 roles 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
VARIOUS

POSITION NO
VARIOUS
LEVEL 3 OR LEVEL 4
SPECIFIED CALLING

STRUCTURAL ENGINEER SPECIFIED CALLING - LEVEL 2

POSITIONS UNDER DIRECT SUPERVISION

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

TITLE and LEVEL

POSITION No

CATEGORY

NUMBER

Salaried, Wages

TOTAL

ALL POSITIONS UNDER CONTROL

State number of positions only

SELECTION CRITERIA

- A Degree in Civil or Structural Engineering.
- Considerable skill, knowledge and experience in:
 - one or more of bridge design, construction and maintenance
 - conceptual and analytical ability
 - analysis and design of concrete and steel structures
 - research, analysis and problem solving
 - building and enhancing stakeholder relationships
 - written communication and report writing
- Knowledge of:
 - policies and practices on Occupational Safety and Health, and on EEO, diversity and equity

CERTIFICATION

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

SIGNATURE DATE
BRANCH/SECTION HEAD

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

SIGNATURE DATE
EXECUTIVE DIRECTOR

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

SIGNATURE DATE
MANAGER HR BUSINESS