
Materials Engineer - Road Construction

Primary Objective of Position

The Materials Engineer will ensure technical advisory and control services are provided for Project Engineer (Contractual Management) for materials used in the road and bridge construction and work together with field testing and laboratory testing. The Materials Engineer will ensure that these services are delivered efficiently and effectively and consider the safety and well being of the public, users etc. The Materials Engineer will provided pavement sign-off.

Key Outcomes

The Materials Engineer will be accountable for the following outcomes:

- 1) Materials services provided
 - # Technical expertise provided
 - # Technical interpretation of test results – field and laboratory etc
 - # Technical advisory services – acceptance of stages of construction
 - # Testing equipment and services recommendations
- 2) Compliant contract project component
 - # Contractual compliance – materials e.g. road finish, base and sub base materials
 - # Plan and Specification including loading, design criteria and alternatives
 - # Project statutory compliance - laws and regulations
 - # Health and safety
 - # Environmental
- 3) Informed management and team.
 - # Materials reporting
 - # Contract and operational changes recommended
 - # Incidents and events reporting
 - # Design standards and procedure updated
- 4) Continual improvement:
 - # Provide guidance and training in particular PWD personnel
 - # Improvement in compliance (audit)
 - # Increased efficiency and effectiveness
 - # Responsiveness of reporting
 - # Customer satisfaction improvement
- 6) Demonstration of the PWD image and value standards
 - # Cooperative team
 - # Efficient and effective teams that are OH&S and environmentally aware

Duties / Responsibilities (Describes key competencies required to achieve performance levels)

Competence

Competence Description

Business

Planning	Develop an operations plan to define specific objectives.
Systems and Procedures	Undertake defined modifications/reviews to procedures; draft manuals/instructions.
Information Analysis	Evaluate options and make decisions / recommendations based on information provided.
Documentation	Present information in a report that explores the links between the issues and draws conclusions.

Customer

Relationship Building	Build long-term relationships working as a trusted advisor.
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People

Team Orientation	Assemble teams with different talents, interests and background to create synergy.
Facilitation	Define the work/problem in broad terms empowering teams to establish objectives, shares accountability.
Learning	Monitor employee development and align training and development to meet the organisational goals.

Professional

Technical Strength	Analyse a problem and develop the solution using standard procedures and methods – technical specialist.
Compliance	Investigate/audit and report on compliance issues.

Operational

Health and Safety	Observe and report potential hazards or security breaches in the workplace.
Environment	Observe and report potential environmental hazards or breaches in the workplace.

Interactions

External	Auditors Suppliers Landowners Provincial Councils' Government Officials Contractors
Internal	Management team All staff Regional and Headquarters

Person Specifications:

Qualifications

Preferred

Higher Degree incl. Post Grad Cert or Dip	Geology & Geotechnical testing - field and laboratory
Degree	Civil Engineering or Geology

Requirements

Language Proficiency

Excellent command of English

Professional Associations

Membership of Professional Engineers Institute (recognised)

Regulatory Compliance Requirements

Drivers Licence

Work Knowledge and Experience

Testing - laboratory, field e.g. density/replacement and nuclear, bowl deflection, roughness

Road design materials experience necessary

Road construction and rehabilitation work experience essential

A competent engineer is likely to have approx.3 to 5 years experience

Personal Attributes :

Attribute Type

Attribute

Behavioural

Accountable
Customer Focused
Detail Oriented
Experimenter

Interpersonal

Team Oriented

Thinking

Challenger
Disciplined / Systematic
Initiative

How to apply:

Online applications preferred but if necessary email your application to pwdjobs@pacificrecruit.com

Closing Date: Friday, 6 November, 2009