

JOB DESCRIPTION

SENIOR PAVEMENTS DESIGN ENGINEER (PO3)

Transport Services Division



organisation overview

The Department for Transport, Energy and Infrastructure (DTEI) serves the South Australian community by enabling the safe and efficient movement of people and freight across the state and facilitating development of the State's infrastructure, in accordance with the State Strategic Plan and State Infrastructure Plan.

projects overview

The South Australian Government has announced major initiatives to improve the efficiency, safety and sustainability of the Adelaide metropolitan transport system.

Adelaide's Rail Revitalization will transform the metropolitan passenger rail network by delivering a number of rail projects including:

- > Electrification of the Gawler, Outer Harbor and Noarlunga rail lines, re-sleepering and gauge conversion of the entire metropolitan passenger rail network
- > Major interchange, train station & Park 'n' Ride infrastructure upgrades
- > Extension of the tramline to Port Road (Entertainment Centre)
- > Construction of new light rail links to West Lakes, Semaphore & Port Adelaide.

Major Road projects are targeted at improving freight efficiency and reducing urban congestion. Project types are major freeways, local roadways and arterials, commuter rail, light rail.

- > Improved freight access to the Port of Adelaide. Current projects include Port River Expressway, Northern Expressway, & Sturt Highway duplication.
- > Upgrading Adelaide's North-South transport corridor. Current projects include grade separations on South Road at Anzac Highway, the Glenelg Tramway, Sturt Road and Wingfield.

There are a range of opportunities available in the planning and delivery of these projects as well as in maintaining the State's regular road and rail programs.

The Pavements and Structures Section is a key technical specialist provider to DTEI, which aims to contribute to the prosperity and well being of South Australians by delivering and supporting a safe, sustainable and secure transport system.

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The role of the Pavements Group as part of the Pavements and Structures Section, is to provide comprehensive and specialist pavement engineering services relating to design, construction, and performance. The Group is involved in the detailed design of new pavements and rehabilitation treatments, advising on road construction practices and problems, development of pavement standards and guidelines, heavy vehicle permit assessments and network damage studies.

position overview

The Senior Pavements Design Engineer is responsible for providing professional services comprising cost effective, timely and specialised pavement investigation, design and construction advisory service. This includes carrying out complex investigations and design calculations, preparing reports and presentations and providing robust professional advice, detailed designs and comprehensive analyses.

key outcomes

- > Provide specialist pavement designs and advice for complex, major and critical projects throughout the State.
- > Provide a comprehensive specialist pavements consultancy and investigatory service including conducting major investigations to identify performance failures and design remedial and periodic maintenance treatments.
- > Provide a specialist road making materials testing advisory service.
- > Provide expert pavement engineering advice in the preparation of roadworks specifications and administration of contracts.
- > Provide problem solving advice for roadworks projects under construction.
- > Control and co-ordinate discrete research and development projects of an innovative or novel nature.
- > Produce high standard project reports with practical recommendations and conclusions.
- > Contribute specialist input into the improvement of investigation, design and testing processes of new developments and to the continuous improvement of established procedures and systems.

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special conditions

- > Out of hours work will be required and intra/interstate travel including overnight absences may be required.
- > A current Drivers Licence is essential.
- > The position is located at Walkley Heights.

selection criteria

qualifications

essential

- > Professional Engineer (Civil or Geotechnical).

experience/knowledge/skills

- > Significant experience and knowledge in pavement engineering design principles and practice, including input parameters to the design process, current trends in design theories.
- > Significant experience and knowledge in road construction, maintenance and rehabilitation techniques including field investigation and laboratory testing procedures applicable to the structural assessment and design of new and existing pavements.
- > Knowledge of project management principles.
- > Proven ability to critically investigate, examine and analyse complex technical issues and data, and demonstrated capacity for creative and innovative thought, action and problem solving.
- > Highly effective interpersonal and communication skills, both verbal and written, with proven ability to identify and respond effectively to the requirements of the customer, resolve conflict with tact and diplomacy and consult, liaise, negotiate with a broad range of people, representing the Department with professional competence in achieving broad organisational goals.

For further information, please contact Ms Natalie Harvey (08) 343 2920

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