

JOB DESCRIPTION

STRUCTURAL ENGINEER (PO2)

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 Structures Group is one of four groups in Pavements and Structures that seeks to ensure that the State's bridges and transport related structures are safe and managed effectively. This is carried out by an experienced, informed group who:

- Design bridges and other transport related structures
- Regularly inspect the bridges and other transport related structures
- Recommend repairs, replacements and monitoring of structures
- Certify over dimensional freight movements across the State
- Give expert structural advice to clients
- Maintain standards and technical specifications
- Review consultants' designs and
- Provide an emergency service

position overview

The Structural Engineer is responsible for applying critical thinking to provide a comprehensive range of engineering services related to the design, documentation and checking of bridges and other structures including the assessment of existing bridges for condition, repairs, load capacity and movement of heavy loads.

key outcomes

- > Undertake the structural design to a range of civil engineering structures.
- > Provide strategic, cost-effective and professional advice, solutions and plans for complex technical and operational issues.
- > Identify, develop and assess feasible alternative options and present these options to the client.
- > Contribute to the development of new and innovative professional solutions, and the adaptation of standardised methodologies where specific standards are not appropriate, to meet stakeholder needs and to ensure best practice is implemented.
- > Make timely decisions and provide professional advice, based on appropriate technical, commercial, operational and risk factors in a professional manner.

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special conditions

- > Out of hours work will be required & intra/interstate travel including overnight absences may be required.
- > A current Drivers licence is essential.

selection criteria

qualifications

essential

- > Professional engineer or relevant tertiary qualification

experience/knowledge/skills

- > Experience in the design and/or delivery of civil engineering projects, particularly bridges and the interpretation and application of relevant Australian Standards.
- > Demonstrated knowledge of the principles of structures/bridge design, construction and maintenance, procedures, practices and construction materials.
- > Experience in conducting complex technical investigations, analysis and research, including economic analysis, and the ability to prepare reports with recommendations.
- > Demonstrated interpersonal and communication skills, verbal and written, including the ability to establish good working relationships with customers and stakeholders at all levels, and deal with situations requiring consultation, negotiation and conflict resolution.
- > Demonstrated drive, initiative, flexibility and self motivation.

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

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