

Principal Stormwater and Hydrology Engineer (PO4)



Government
of South Australia
Department for Infrastructure
and Transport

Role Statement

Organisational alignment	Division:	Transport Strategy and Planning Division
	Directorate:	Planning and Technical Services
	Section:	Engineering Services
Reporting relationships	Reports to:	Manager, Engineering Services
	Direct reports:	2 FTE

Role overview

The Department for Infrastructure and Transport delivers expert planning policy, efficient transport, and valuable social and economic infrastructure to the South Australian community that enhances the lifestyles of South Australians every day.

The Principal Stormwater & Hydrology Engineer delivers expert hydrology and stormwater management advice and services for new and existing Departmental projects, assets, and programs of work, ensuring compliance with Departmental, State and National standards.

In this role you will:

- Provide professional leadership for investigations, design, analysis, advice and governance related to hydrology and stormwater matters, ensuring compliance with relevant standards and incorporating risk mitigation strategies.
- Deliver expert technical advice during the planning stages of new infrastructure projects and the maintenance of existing assets.
- Ensure that all Department infrastructure is supported by consistent, effective, and integrated procedures and technical expertise.
- Lead the establishment of strategic relationships with industry bodies and other government agencies in support of key Departmental objectives.

Further information about the Department can be found at: <https://www.dit.sa.gov.au/about-us>

Our values

We pride ourselves on applying these values to our day-to-day interactions and individual performance. They shape our approach to achieving our strategic agenda.



Collaboration

We work together as one team to serve our customers.



Honesty

We are honest, open and act with integrity.



Excellence

We commit to excellence in everything we do.



Enjoyment

We enjoy our work and recognise our success.



Respect

We respect, understand and value the people we serve.

Key outcomes required of the role

- Lead thorough reviews and provide expert feedback on hydrology and stormwater issues and designs for departmental projects, ensuring compliance with relevant standards and contemporary technologies.
- Identify and analyse existing drainage issues within the Department's infrastructure. Develop innovative solutions and create concept sketches to illustrate proposed improvements, ensuring effective resolution of issues.
- Regularly review and update the Department's drainage master specifications and standard drawings. Ensure that all documentation reflects the latest industry standards, technological advancements, and regulatory requirements.
- Perform hydrological modelling to assess water flow and drainage patterns in rural catchments. Use this data to inform the design and upgrade of culvert and bridge crossings, ensuring they are fit for purpose and can manage expected water volumes and mitigate flood risks.
- Evaluate stormwater management plans submitted by developers for new projects that discharge into Department roadways. Ensure that these plans effectively manage runoff, prevent flooding, and protect roadway infrastructure.
- Analyse and determine the drainage requirements for the disposal or re-purposing of Department assets. Ensure that any changes in asset use or ownership do not negatively impact drainage systems or surrounding environments.
- Deliver expert technical advice during the planning stages of new infrastructure projects and the maintenance of existing assets. Ensure that all Department infrastructure is supported by consistent, effective, and integrated procedures and technical expertise.
- Lead the evaluation of tenders for major projects, providing technical insights and assessments. Contribute to technical panel assessments to ensure that project proposals meet the Department's standards and requirements.
- Contribute to the implementation of new innovative and procured business models that achieve efficiencies in Departmental operations and meet client and stakeholder requirements.
- Actively engage and collaborate with industry bodies and other government agencies in support of key Departmental objectives.
- Review and maintain the technical adequacy, currency, relevance and integrity of discipline-related Departmental standards and guidelines.
- Contribute to the development and credibility of the Department's technical/professional reputation and the sustainability of essential discipline-related in-house expertise, capability and corporate knowledge.
- Provide coaching, mentoring and supervision to team members and support and promote a collaborative and productive workplace culture.
- Drive and deliver a customer focused culture across the Section/Divisional Unit that:
 - is effective, courteous, respectful, polite, professional, fair and non-discriminatory;
 - builds a common understanding of stakeholders, customers, their perspectives and needs.
- Contribute to a safe, diverse and healthy work environment free from discrimination and harassment by working in accordance with our values, legislative requirements, the Code of Ethics for the South Australian Public Sector, equal employment opportunity and departmental human resource policies, including Work Health Safety and Wellbeing requirements.

Special conditions attached to the role

- A National Police Check (NPC) is required prior to employment in the Department for Infrastructure and Transport which must be renewed every three years.
- Some out of hours and weekend work may be required.
- Some intra / interstate travel may be required.

Educational qualifications / licenses

- Degree in Engineering providing eligibility for graduate membership as a Professional Engineer of the Institution of Engineers, Australia.

Technical capabilities

- Significant experience delivering expert technical advice on stormwater and hydrology matters to stakeholders.
- Proven proficiency in leading site investigations, and informing design and construction decisions.
- Extensive and contemporary knowledge and experience in the stormwater and hydrology discipline.

Person capabilities

[Our Capability Framework](#) describes the core capabilities, behaviours and skills required for us to meet our strategic objectives and be a modern public sector, attracting, developing and retaining the best talent. The framework is constructed around five categories of capability; personal attributes; building relationships; achieving results; leadership and growth; and performance enablers.

Refer to our framework for the detailed capabilities required for this stream. This role is classified as:

Stream 3: Senior leader

Stream 3 roles would typically consist of team and senior leaders, senior team members and those with technical specialty (indicative classifications include ASO7-8, LE5, PO4-6, MAS3).

Key selection criteria

The criteria outlined below are drawn from the most significant requirements of the person capabilities (from Our Capability Framework) and technical capability, professional knowledge and experience to be addressed in your application having consideration of the role overview and key outcomes.

- Substantial experience in delivering expert written and verbal communications, advice, reports and recommendations based on sound analytical research and contemporary discipline knowledge.
- Capability to develop and manage the implementation of innovative and procured business models which achieve efficiencies in Departmental operations and meet customer expectations.
- Highly developed organisational skills to plan and set priorities that support the delivery of time critical projects and deadlines.
- Excellent interpersonal skills and demonstrated experience in engaging stakeholders and influencing negotiations to achieve strategic objectives.
- Demonstrated ability to think strategically to deliver recommendations and innovative solutions that align with broader Divisional and Departmental objectives.
- High levels of personal motivation, initiative, flexibility, and adaptability of approach.
- Leadership capability and experience in providing guidance, development and mentoring to staff and empowering team members to explore new and innovative approaches.
- Shows respect for diverse backgrounds, experiences and perspectives including that of Aboriginal and Torres Strait Islander people. Values diversity of thought.
- Shows genuine care for the safety and wellbeing of self and others.

Approved

Signature: _____ Date: _____

Director, Planning and Technical Services

People, Culture and Capability Use Only	KNet ID: 22408211	ANZSCO code: < >	Position number: < >
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