

Senior Stormwater and Hydrology Engineer (PO3)



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:	Principal Stormwater & Hydrology Engineer
	Direct reports:	NIL

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 Senior Stormwater & Hydrology Engineer provides hydrology and stormwater management advice and services, with specific professional expertise in water quality and flood management, to the Department and State Government.

In this role you will:

- Provide professional advice for investigations, design, analysis, advice and governance related to hydrology and stormwater matters, ensuring compliance with relevant standards.
- Deliver advice during the planning stages of new infrastructure projects and the maintenance of existing assets.
- Ensure projects, plans and design practices meet Departmental technical standards and safety requirements.
- Undertake research, analysis and preparation of technical documents, correspondence and reports with recommendations.
- Contribute to the review and maintenance of the technical adequacy, currency, relevance and integrity of discipline-related Departmental standards and guidelines.
- Engage with internal and external stakeholders 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

- Provide a range of technical and professional advice and services to support the achievement of Directorate and Departmental projects, priorities and objectives.
- Ensure projects, plans and design practices meet Departmental technical standards and safety requirements.
- Undertake research, analysis and preparation of technical documents, correspondence and reports with recommendations.
- Review engineering designs, plans, and prepare project specifications.
- Undertake reviews and provide 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. Contribute to innovative solutions and create concept sketches to illustrate proposed improvements, supporting effective resolution of issues.
- Contribute to the review and update of the Department's drainage master specifications and standard drawings.
- 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.
- Review stormwater management plans submitted by developers for new projects that discharge into Department roadways and provide reports with recommendations to the Principal Engineer regarding their suitability.
- Analyse, assess and make recommendations regarding the drainage requirements for the disposal or re-purposing of Department assets.
- Provide 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.
- Participate in 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.
- Engage and collaborate with industry bodies and other government agencies in support of key Departmental objectives.
- Contribute to the review and maintenance of discipline-related Departmental standards and guidelines, focussing on their technical adequacy, currency, relevance and integrity.
- Contribute to a safe, diverse and healthy work environment free from discrimination and harassment by working in accordance with the department's 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

- Experience in conducting reviews and providing expert feedback on stormwater and hydrology designs to ensure compliance with relevant standards and best practices.
- Experience delivering expert technical advice on stormwater and hydrology matters to a range of stakeholders.
- Proven proficiency in site investigations, including the analysis of information to inform design and construction decisions.
- Contemporary knowledge and experience to advice on innovative engineering designs using the latest technologies.
- Demonstrated ability to assess stormwater and hydrology requirements and offer advice that aligns with Departmental and industry standards.

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 2: Leader

Stream 2 roles would typically consist of supervisors and senior team members, including those with technical knowledge (indicative classifications include ASO4-6, PO2-3, OPS4-7, TGO2-5, M3-7, WPA2, WBT7-10).

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 support the implementation of innovative and procured business models which achieve efficiencies in Departmental operations and meet customer expectations.
- Strong 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 supporting negotiations to achieve key objectives.
- Demonstrated ability to think laterally to deliver recommendations and innovative solutions.
- High levels of personal motivation, initiative, flexibility, and adaptability of approach.
- Excellent written communication skills including expertise in developing technical reports with recommendations for a range of audiences.
- 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: 22408214	ANZSCO code: < >	Position number: < >
---	-------------------	------------------	----------------------