

Traffic Systems Engineer (PO1)



Government
of South Australia
Department for Infrastructure
and Transport

Role statement

Organisational alignment	Division:	Road and Marine Services
	Directorate:	Network Management Services
	Section:	Traffic Management Centre
Reporting relationships	Reports to:	Team Leader, Traffic Systems
	Direct reports:	Nil

Role overview

The Traffic Systems Team is part of the Traffic Management Centre. Its objective is to safely and effectively operate the road network for optimal mobility using integrated traffic engineering techniques and Intelligent Transport Systems (ITS) software.

The team provides a range of technical services which contribute to the achievement of Network Management Services, Corporate and Government objectives and goals.

The Traffic Systems Engineer operates traffic signals and ITS in South Australia and provides support for design and safety improvement in accordance with Australian Standards, AUSTROADS Guidelines and departmental practices. The key responsibilities include:

- Complex programming of traffic signals and configure ITS software (i.e. SCATS and STREAMS),
- Review and optimisation of traffic signals operations and ITS Tools,
- Undertaking site investigations, analyse traffic signals data and provide specialist advice and technical support to internal and external stakeholders.

The role will receive in-house training for gaining skills required for the position and continued learning and development opportunities to be subject matter expert in traffic signals and ITS operations.

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

- Undertaking research, analysis and preparing technical documents and/or correspondence reports appropriate for presentation to public and external bodies that involve complex issues and support the management of assigned programs, projects, assets, systems and/or services.
- Providing technical information and advice, to internal and external stakeholders, including determining and applying standardised technical methodologies and techniques and assisting with the resolution of technical issues.
- Communicating with internal and external stakeholders and service providers, as required, to meet the needs of assigned technical work programs, services and projects.
- Work under limited direction by organising and monitoring own workflow to meet deadlines.
- 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.
- A Working with Children Check (WWCC) is required prior to employment in the Department for Infrastructure and Transport, which must be renewed every five years before expiry.
- Some out of hours and weekend work may be required.
- Some intra / interstate travel may be required, involving overnight absences when required.

Educational qualifications / licenses

- A Degree in Engineering providing eligibility for graduate membership as a Professional Engineer of Engineers Australia.
- Current driver's licence.

Technical capabilities

The following are the technical capabilities required for the role:

- Sound knowledge of Traffic Management Centre procedures.
- Strong analytical and technical skills as they apply to traffic engineering.
- Has some understanding of road networks, traffic signals and ITS operations.
- Interest in the application of new trends and practises in road network operations, including general traffic engineering, road safety, traffic control devices, traffic operations and ITS.
- Proven ability to acquire new knowledge promptly and being able to transfer the newly acquired knowledge beyond specific contexts and instances.

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 1: Team member

Stream 1 roles would typically consist of individual contributors and team members (indicative classifications include ASO1-3, GSE2, PO1, OPS1-3, TGO0-1, TRA, CMW3-7, M8-11, WBT3-6).

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.

- Analyses and develops responsive solutions to professional problems, while working within departmental systems, processes and policies.
- Knowledge of the discipline and the issues, risks, trends and directions associated with the span of assigned functions including an understanding of relevant quality and risk management requirements.
- Ability to analyse and research complex information, provide discipline advice and develop clear correspondence and reports with recommendations for time critical deadlines.
- Ability to work under reduced professional direction, independently or as part of a team, plan and coordinate activities, set priorities, achieve objectives within deadlines and make timely and well informed decisions
- Demonstrated ability to communicate effectively, succinctly and accurately, in writing and verbally, in a professional and tactful manner including successfully liaise with people at all levels.
- Proven ability to display flexibility of approach in order to meet changing requirements and situations.
- 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, Network Management Services

People, Culture and Capability Use Only	KNet ID: # 21183509	ANZSCO code: 2332	Position number: M36675
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