



Position Description

Position title:	Senior GIS Engineer
Entity:	TCA
Division:	Data & Technology
Job Type:	Full – time (1.0 FTE)
Location:	Austroads Melbourne Offices
Reports to:	Enterprise Data Manager
Responsible GM:	Chief Data & Technology Officer
Direct reports:	N/A
Date reviewed:	16 February 2023

Organisational Context

Austroads is the association of Australian and New Zealand transport agencies.

We provide authoritative, practical and impartial advice, information, tools and services to help our members to deliver safe, efficient and reliable mobility to their customers.

We also deliver value to a range of other key stakeholders across government, industry and communities, where there is a demonstrated societal benefit to do so.

Austroads comprises several business activities, including the core Austroads work program, the National Exchange of Vehicle and Driver Information System (NEVDIS), and Transport Certification Australia (TCA).

Our teams are located across Australia and New Zealand. We work in an integrated and collaborative way, along with external consultancies and other partners, to ensure our products and services are delivered successfully and maximise value.

Austroads promotes a culture of professionalism, innovation, and integrity, with a commitment to accountability, quality, and excellence in the delivery of all of our programs and services.

We recognise the unique skills and abilities of each individual, who come from a wide range of disciplines and backgrounds. We support our people through ongoing development and learning opportunities and create a supportive team environment for all our staff. We strive to be an employer of choice.

Austroads takes inclusion and diversity seriously. We embrace difference and diversity of identity, experience and thought, and actively strive for inclusive behaviours across our company and our work.

The Role

Position Purpose

The Senior GIS (Geospatial Information System) Engineer has the responsibility and accountability to deliver geospatial services and administration within the Enterprise Data Management team. Working in a small team, the Senior GIS Engineer will implement and maintain GIS capabilities and develop spatio-temporal insights for TCA, its members and other government agencies.

The required works will be undertaken in a project driven environment with a strong focus on adherence to quality systems.

Major Responsibilities/ Accountabilities

The role is responsible for:

- Technical leadership for the implementation, development and maintenance of TCA's telematics and spatio-temporal insights capability
- Providing hands-on geospatial system administration services where required
- Representing the team as a trusted service provider, working closely with internal and external customers to understand, document and solve their geospatial needs
- Assisting in the publication of technical reports and papers
- Managing multiple competing priorities in a changing environment
- Liaising and providing technical assistance for internal staff, members and other stakeholders as required
- Applying professional and technical expertise to mentor staff, resolve technical issues, and to prepare and edit reports, submissions, papers and correspondence as directed
- Developing and maintaining documentation of processes and procedures to support the introduction of new initiatives
- Exercising diligence when making decisions, adhering to the requirements outlined in the Delegations of Authority
- Maintaining and adhering to Quality Systems processes and procedures

Key stakeholder interfaces

Internal

- Enterprise Data Manager
- Data Insights Team
- Operations Team
- Strategy and Delivery Team

External

- Australian Government departments and agencies
- Road Managers and regulators

The Person

Qualifications, knowledge, and experience

The Senior GIS Engineer will possess:

Mandatory:

- A tertiary qualification in Geospatial engineering or Information Technology
- A minimum of 5 years' GIS engineering, development or administration experience
- Demonstrated experience in implementing and maintaining ESRI ArcGIS Enterprise in cloud-based environments
- Demonstrated experience in spatio-temporal scripting/development using ArcGIS Pro
- Excellent written and oral communication skills

Desirable:

- Experience using, Java and Python scripting, MS SQL Server in a Big Data Environment Tableau and Power BI
- Experience applying project and service management (e.g., ITIL) methods and practices
- Knowledge of Heavy Vehicle transport planning principles and an understanding of the responsibilities of road authorities and transport operators

Personal qualities

The incumbent will need to present a professional image and build a strong relationships across the enterprise. Specifically, the role requires:

- Demonstrated interest in the use of data to inform public policy
- Demonstrated willingness to learn and take responsibility for one's own personal development
- Demonstrated willingness to make decisions, take initiative and originate action
- Ability to deal with ambiguity, successfully adapting to changing demands and conditions
- Comfort working in an environment which is constantly evolving
- Demonstrated ethical behaviour