



Ngākau aroha Have heart

Kotahitanga Better together

Kia māia Be brave

Mahia Nail it

## Position Description

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<b>Title:</b>	Principal Traffic Engineer
<b>Group:</b>	Transport Services
<b>Reports to:</b>	Team Lead Transportation Engineering
<b>Band:</b>	18
<b>Date:</b>	September 2021

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### Context

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#### Our purpose

#### ***Waka Kotahi. Moving. Together***

A land transport system connecting people, products and places for the thriving Aotearoa.

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#### Group and team purpose

Transport Services is an end-to-end business group that focuses on our transport system – from policy and planning, through design and delivery, to maintenance and operations. We have some of the most capable and motivated people in the industry providing a transport system that enhances the way New Zealanders live, travel work and connect.

Working in partnership, we bring transport ambitions to life by designing it right, from the start

- We put people & communications at the centre of our design, with a system view that delivers choice, safety and sustainability in our integrated transport solutions
  - We initiate projects with experts working together at the start, making sense of requirements to ensure we're building the right thing, the right way
  - We work with AO's on shared transport investments and activities that best achieve regional ambitions and support a thriving New Zealand economy
  - We use our expertise in road safety and safety in design to improve the safety and performance of the transport system
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#### Position purpose

The purpose of this role is to provide expert technical advice and support throughout business-case process to ensure the delivery of multi-modal, safe, sustainable and integrated transportation network to achieve strategically desired outcomes.

The purpose of this role is to be an authority on transport engineering and delivery of multi-modal optimise solutions within the Waka Kotahi. Work with the Team Lead Transport Engineering to deploy the team effectively to team priorities and in support of performance and development initiatives.

As a part of the Transportation Engineering team, the Principal Traffic Engineer will provide leadership through technical expertise in shaping, influencing, guiding and mentoring the team members. This will range from supporting Business cases in different stages to input into capital projects and multi model optimisation works.

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This position does not have any direct reports from a people management perspective but is responsible for day to day operational direction of assigned engineers.

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## Key relationships

### Internal:

- All other business groups within Waka Kotahi

### External:

- Local roading authorities
- NZ Police
- Emergency services
- Network Outcome Contract (NOC) providers
- The general public

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## Dimensions

**Location:** Any Waka Kotahi location

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## What the position involves

### Accountabilities

As well as being accountable for the Waka Kotahi values and behaviours, your role has the following specific key accountabilities:

- Be a customer champion, provide technical leadership and oversight of transport engineering processes at Waka Kotahi
- Technical inputs in business case development
- Translating Government Policy Statements and strategy into design during the business case design development phase
- Ensuring all new designs optimise multimodal efficiency and meet business outcomes
- Working together with NOCs/ASM and TOCs to provide optimal design outcome of the network to address transport and safety concerns and customers' expectations
- Provide expert level advice during complex land use plan development and its impact on interchange, intersection, network solutions
- Provide transport engineering design guidance to ITS team regarding functional and safety requirements.
- Develop and support innovative design solutions for the existing network considering all modes
- Working in partnership with safety engineers for balanced design solution referring to movement and place functions
- Carry out network configuration, safety and performance audits, ensuring that high road safety standards are practiced
- Technical input and support to development LC/LR programme and ensure innovative solutions are addressing desired transport outcomes.
- Work with Delivery and Project Managers on large capital projects to ensure desired performance outcomes are achieved
- Participate in the evaluation of options of capital projects and make recommendations to ensure appropriate actions are defined and completed
- Provide a strategic overview and undertake detailed design reviews of proposed safety and traffic engineering improvements
- Be recognised as a lead provider of sound traffic engineering advice
- Ensure appropriate transport engineering design principles are applied to all new projects
- Be cognisant of current and developing international best practice championing transport solution approach
- Contribute to the development of guidelines, specifications and other appropriate technical documents
- Respond to Ministerials, OIAs, the public and other business group requests

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- Consult and support the wider team
  - Provide input into the prioritization of the competing demands of different projects by carrying out operational impact analyses
  - Facilitate management decision making through effective technical reporting and clear communication
  - Engage in Business Planning process, setting objectives and measures
  - Take co-ownership of budget spend on professional services, with the view of achieving cost-efficiencies and high-quality return of investment
  - Represent Waka Kotahi at various internal and external forums and ensure that the operational perspective is presented clearly and effectively across the business

There is an expectation that the role accountabilities may evolve over time. You may also be involved in other activities as part of a career and development plan. These will be reflected in your performance and development goals that are set in discussion with your People Leader.

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### Working effectively with Māori

Te Ara Kotahi – our Māori Strategy – supports Waka Kotahi to work effectively with Māori and is underpinned by uara (values) and our mātaḥono (principles) of – Rangatiratanga, Manaakitanga, Kaitiakitanga, Whanaungatanga, Te Tiriti o Waitangi, Mana o te Reo, Huna Kore (no surprises approach), Auahatanga (creativity and innovation), Whakapono (integrity and honesty) and in recognition of Cultural Values.

As Waka Kotahi is an agent of the Crown, Te Tiriti o Waitangi/The Treaty of Waitangi is important to everything we say or do. We recognise it as an enduring document central to New Zealand's past, present and future. Building and maintaining meaningful relationships is important to work effectively with Māori, stakeholders and other agencies.

We accept our privileged role and responsibility to the partnership of the Treaty of Waitangi / Te Tiriti o Waitangi.

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### Values and Behaviours

Our values and behaviours underpin everything we do and form the core behavioural expectations for your role.

**NGĀKAU AROHA** *Have heart* means we have the wellbeing of our people, community and planet at the heart of everything we do. As Waka Kotahi we:

- Contribute to a safe and sustainable work environment.
- Show respect for all people.
- Treat others how we would like to be treated.
- Are inclusive and connected
- Look out for each other

**KOTAHITANGA** *Better together* means we achieve great things when we work together to build trusted relationships inside and outside of Waka Kotahi. As Waka Kotahi we:

- Build better relationships
- Join up our thinking and our doing
- Remove barriers to collaboration
- Seek and listen to others to learn and grow
- Invite conversation and feedback and always improve

**KIA MĀIA** *Be brave* means our outcomes are better when we bring courage and self-belief to our passion and purpose. As Waka Kotahi we:

- Speak up when it matters
- Challenge to achieve the right outcome
- Make and own the tough decisions
- Find different perspectives to challenge thinking

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- Face up to the difficult issues

**MAHIA** Nail it means we create enduring legacy, delivering our best work every day. As Waka Kotahi we:

- Are clear on what's important
- Deliver on the right outcomes
- Hold ourselves to account
- Help others succeed
- Celebrate success

As a member of the public service we also hold ourselves to the highest standards of integrity and conduct.

### **SPIRIT OF SERVICE**

Ka mahitahi mātou o te ratonga tūmatanui kia hei painga mō ngā tāngata o Aotearoa i āianeī, ā, hei ngā rā ki tua hoki. He kawenga tino whaitake tā mātou hei tautoko i te Karauna i runga i āna hononga ki a ngāi Māori i raro i te Tiriti o Waitangi. Ka tautoko mātou i te kāwanatanga manapori. Ka whakakotahingia mātou e te wairua whakarato ki ō mātou hāpori, ā, e arahina ana mātou e ngā mātāpono me ngā tikanga matua o te ratonga tūmatanui i roto i ā mātou mahi.

In the public service we work collectively to make a meaningful difference for New Zealanders now and in the future. We have an important role in supporting the Crown in its relationships with Māori under the Treaty of Waitangi. We support democratic government. We are unified by a spirit of service to our communities and guided by the core principles and values of the public service in our work.

More information on all the behaviours and standards are included in the Waka Kotahi Te Tikanga Whanonga – Our Code of Conduct.

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## **The value you will bring**

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### **Knowledge and Experience**

- 15 Years of experience in different disciplines of Land Transport Engineering
  - Strong engineering sense and a simple approach in solving complex technical problems
  - Proven ability for establishing strategy and guiding delivery to meet strategic outcomes
  - Significant transport design and solution engineering capability
  - Strong awareness and understanding of the Safe System approach
  - Strong analytical skills
  - Very good understanding of transport data and modelling outcomes and their interpretations
  - Excellent verbal and written communication skills and ability to effectively collaborate with others
  - Experience of working with diverse stakeholders and with complex problems and conflicting expectations of outcomes
  - Experience in presenting proposals at both a technical and non-technical level to a variety of audiences
  - Significant experience in investment decision making, budget allocating and programme management
  - Experience of the commercial operation of contractors and consultants
  - Strong achievement/delivery focus – sets high standards including accuracy and attention to detail, meets deadlines etc.
  - Ability to mentor and coach others to develop skills
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**Qualifications:**

- A qualification, degree or technical diploma, or equivalent in the area of highway or traffic engineering

You will demonstrate knowledge of, or a willingness to gain an understanding of Te Ao Māori and promote tikanga and Te Reo Māori. You will also have knowledge of, or a willingness to gain an appreciation of te Tiriti o Waitangi (the Treaty of Waitangi) as it applies in the public sector.

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