

# Position description



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| <b>Title</b><br>Data Engineer           | <b>Reports to</b><br>Data Engineering Lead |
| <b>Division</b><br>Innovation & Product | <b>Department</b><br>Data & Analytics      |
| <b>Location</b><br>Auckland             | <b>Last updated</b><br>01/03/2024          |

## Our commitment as a Crown Entity

Ka mahitahi mātou o te ratonga tūmatanui kia hei painga mō ngā tāngata o Aotearoa i āiane, 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 hapori, 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.

## Role purpose

The Data Engineer is responsible for building and supporting the systems and processes in place for collection, storage and availability of data across the business. You will have the skills and expertise necessary to turn raw data into semantically organised high value data assets that can be consumed by analysts, data scientists and the wider business.

Reporting to the Data Engineering Lead, you will work closely with the wider Data & Analytics team as well as IT to bridge the gap between source data produced by our IT systems, and business needs for insights and analytics that support decision making. In addition to knowing all things data engineering, you will have a good understanding of how data and insights supports Lotto NZ's business strategy, ensuring we are maximising value from data as an organisation.

# What you will focus on

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## Data Engineering

- Develop and maintain Lotto NZ's data platform ensuring all data collection and transformation processes are optimal.
  - Have a thorough understanding of source data systems, data availability and constraints.
  - Build and orchestrate data pipelines to copy data from source systems to Lotto NZ's data platform.
  - Store and structure data to meet all business requirements.
  - Ensure data is made available to the business in a consumable manner factoring in data literacy of various audience types.
  - Engage with third party vendors where required to ensure all of Lotto NZ's data requirements are being met.
  - Be abreast of industry trends in the area of data engineering and surface new ideas or initiatives where appropriate.
  - Be involved in projects, ensuring all data availability and reporting requirements are met.
  - Ensure data load failures are managed with minimal impact to the business.
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## Data Quality & Governance

- Work closely with the Data Engineering Lead in executing on Lotto NZ's data governance framework.
  - Implement and follow data quality practices as part of the governance framework.
  - Be an expert at managing data quality tools within the data platform.
  - Proactively identify and resolve data quality issues in conjunction with data owners and data stewards across the business.
  - Has an understanding of known data quality issues and ensures issues are identified and rectified.
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## Analytics & Insights

- Maintain a clear understanding of sales, trends & customer behaviour to provide relevant and actionable information back to the business.
  - Be curious and maximise your deep knowledge of source data by delivering ad-hoc insights and analytics that supports strategic initiatives.
  - Regularly consult with the wider Data & Analytics team to ensure they have all necessary data to perform their roles optimally.
  - Work closely with the Data Scientist in ensuring all machine learning models are optimised.
  - Present analysis and modelling back to the business in a clear and concise manner.
  - Bring data to life through data visualisations as necessary.
  - Continuously look for new data sources that can enrich Lotto NZ's data environment to support business strategy.
  - Demonstrates and communicates an intimate understanding of Lotto NZ's products, customers and the market.
  - Ensures the Data & Analytics team are well versed on available data assets and systems.
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## Stakeholder Engagement

- Present findings/recommendations to a broad range of audiences at all levels and lead discussions with senior management.
- Develop and maintain close working relationships with the Head of Data & Analytics, the Data Engineering Lead and other key stakeholders across the business including the Exec and senior leadership teams.

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## Be a Lotto NZ information expert

- Disseminate accurate, current, and relevant information throughout the organisation where and when required.
- Proactively come up with ways of sharing key customer information across the business at all levels.
- Demonstrate and communicate an intimate understanding of Lotto NZ customers and market.

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## Other

- Any other duties as reasonably required by your manager or other key stakeholders.
- Ensure all company policies, procedures and guidelines are followed and adhered to.
- Take an active role in promoting and ensuring a safe and healthy workplace at Lotto NZ for yourself and others.
- Lotto NZ's purpose is to provide safe gaming that allows New Zealanders to play and win while contributing money back to New Zealand communities: Ensure that minimising the potential for harm from our games is a key consideration in all day-to-day activities and decision making, through adhering to all Lotto NZ responsible gaming processes and policies.
- Ensure the Lotto NZ Health and Safety policy is adhered to (including procedures in the Health and Safety Manual) and hazards, incidents and near misses are reported in the Health and Safety system in a timely manner.
- Comply with all Lotto NZ security policies and instructions, complete all required security awareness training and report any security incidents or concerns in a timely manner.

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## Your skills and experience

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### Technical skills

- Advanced knowledge of modern cloud data platforms and working with structured and unstructured data (preferably in Azure).
  - Knowledge of cloud data management tools such Data factory and Data bricks.
  - Knowledge of Data warehouse ETL processes and tools.
  - Expert knowledge of relational database management.
  - Expert knowledge of SQL and/or Python.
  - Knowledge of data visualization tools (PowerBI or Tableau).
  - Expert ability in Excel, and other Statistical software packages (R or SAS) numerical and technical information.
  - Effective presentation skills.
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**Experience**

- At least 5 years' experience in a similar role.
- Comfortable dealing with senior managers and sharing ideas at this level.

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**Qualifications**

- Must be tertiary qualified in a computer science and/or numeric discipline.
  - Preferred - computer programming skills.
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## Authorities

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**People responsibilities:**

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**Signature authority of:**

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