Job Description

Title	Asset Planning Engineer – Asset Information and Condition (Mechanical & Electrical)
Number	??????
Group	Infrastructure
Division	Asset Services
Reports to	Asset Management Specialist (Mechanical & Electrical)
Direct Reports	N/A
Date	28/08/2024

Job Holder Commitment

The job holder accepts as a fundamental requirement of their employment that they must demonstrate a personal commitment to:
- modelling organisational values at all times.
- a safe and healthy work environment.
- assisting Council to fulfil its Civil Defence responsibilities.

At TCC we uphold the principles of Te Tiriti o Waitangi by engaging in an effective and meaningful partnership with tangata whenua. We are committed to developing our knowledge and understanding of Te Reo Māori, tikanga Māori, Matauranga Māori and our partnership with tangata whenua.

Job Purpose

The primary purpose of this role is to manage and coordinate the collection and management of mechanical, electrical, and civil asset information via digital engineering projects and processes, to investigate and implement emerging technologies and systems related to these assets and to develop and implement condition assessment frameworks in order to perform effective asset management planning.

Key Outcomes

Collection, development, and management of asset information using Digital Engineering (DE) processes and requirements.	• Ensure Mechanical, Electrical and Civil asset information and renewals planning data is available, updated, and accurate. • Collaboration and management of consultants, contractors, and internal users to continuously improve data and information requirements, processes, inputs, and reporting in line with DE requirements. • Identify and capture any new asset data standard requirements, to enable the enrichment of Three Waters Asset

	• Information and for Renewals Planning purposes. • Asset Management Systems (IPS and EAM), GIS, Document Management, Valuation and Technical Data Support (Infrastructure Data) and ensure the data is accurate, up-to-date and meets corporate requirements. • Research and implement new data loading processes to ensure effective Building Information Modelling (BIM), improvement of data quality, accuracy, and confidence. • Information meets DE and BIM standards and Audit NZ requirements.
Data mining, analysis, and reporting.	• Provide data analysis and reporting expertise to City Waters Internal users, Consultants and Contractors; and recommendations to assist procurement and contract renewals decision making. • Asset information enables City Waters Asset Managers to make informed decisions. • Create asset quantities dashboards and reports on asset renewals and rehabilitations. • Analyse and develop asset information functionality to determine performance, maintenance cycles, and potential risk/failure.
Condition Assessment Frameworks and Standards.	• Investigate condition frameworks and methodologies for various mechanical, electrical, and civil asset types. • Development of supporting systems, decision making processes and tools, and identification of any additionally required data standards attribution. • Implementation to be managed in line with TCC Project Management principles and processes. • New documentation is developed and maintained for training all relevant stakeholders.
Investigation and implementation of new technologies and Artificial Intelligence tools.	• Assessment of 'Internet of Things' devices, sensors, system improvements (e.g., AI processes in plant assets) for application and relevant use. • Benchmarking with other Councils to ascertain any new technology implementations, maturity and lessons learnt. • Collaborate with suppliers to determine any emerging technologies for assessment and application.

	• Implementation to be managed in line with TCC Project Management principles and processes.
Support and training to users.	• All relevant internal and external stakeholders are trained and mentored in Civil, Mechanical and Electrical asset information, related data (including renewals), processes, system requirements and our data standards; to ensure TCC's standards are achieved. • New and updated documentation is created and maintained to facilitate training requirements for relevant staff, contractors, and consulting companies.
Digital Engineering and BIM processes for Three Waters Plant and Equipment.	• Implement Digital Engineering (DE) processes and techniques in line with ISO 19650 standards for projects. • Provide strategic feedback and tactical direction and advice on DE asset requirements and processes, to develop, improve and optimise the Waters Plant and equipment assets. • Recognised Project Information Manager for DE Projects influencing, managing, and delivering key requirements as follows: • Information Requirements – establishing and improving methods, and procedures. • Information Delivery Planning – review and approve BIM execution plans. • Accept and Use – information models against requirements, and compile lessons learnt.
Contribute towards a highly supportive and performing team.	• Contribute to the team 'community', participate, have fun, share learnings and knowledge, suggesting or running team activities. • Attendance at team meetings and functions. Help keep the team culture positive and constantly learning. • Improve the business - make something better than what it was. • Improve yourself - areas identified and opportunities sought and or captured.

The job description is not an exhaustive list of requirements; the job holder will be required to perform tasks assigned to them not explicitly described in this document.

Person Specification

Essential	Desirable
• Relevant trade qualified with a tertiary degree in Engineering, Planning or Business, IT or other related field. • Current full driver license. • At least 5 years' experience in Asset Management Systems and the ability to manipulate and update the information within them. • Extensive knowledge of Civil, Mechanical and Electrical assets. • Ability to interpret As-Built Plans. • Knowledge of obtaining and manipulating information from multiple sources. • High communication skills. • Familiar in use and application of Project Management tools and processes. • ISO 19650 Building Information Modelling (BIM) trained and certified. • Solid organisational skills with the ability to manage & influence both internal and external stakeholders to deliver successful strategic and tactical outcomes on time, to budget and Right First Time (RFT). • Commitment to Health and Safety.	• Experience working in Local Government. • Water Industry experience is desirable. • Knowledge on water and wastewater treatment plant and pump station assets, operations, maintenance, and processes. • Good knowledge of emerging technologies, systems, condition frameworks, and their application on Civil, Mechanical and Electrical assets. • Experience in SQL.

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WHANAKE TE TAI

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Our values

Pono / Integrity

We do what we say we will do

Manaakitanga / Respect

We listen to all views and show we care

Whāia te tika / Service

We do the right thing for our community
and each other

Whanaungatanga / Collaboration

We work together and create connections