



POSITION DESCRIPTION

POSITION DETAILS			
Position Title:	Summer Intern – Data Science & Analytics	Date:	July 2025
Division (Country):	New Zealand	Approved By (Title):	VP, Reliability & Asset Integrity
Primary Location (Site):	Motunui	Reports To (Title):	Project Engineer (Global)
Department:	Global Technical	Direct Reports:	Not applicable

METHANEX NEW ZEALAND
<p>Methanex New Zealand Limited is the country's only methanol manufacturer in Taranaki and is a wholly owned subsidiary of Canadian-based Methanex Corporation. About 95 per cent of our product is exported to the Asia Pacific region, making the company a leading exporter for New Zealand.</p> <p>Methanol manufacturing is a three-stage process – Reforming, Compression/Conversion and Distillation. Methanol is everywhere – the paint on the walls, the polyester and nylon in carpets and furniture, plastics, silicone sealants all of these and more are derived from methanol.</p>

POSITION PURPOSE
<p>Explore the application of Artificial Intelligence (AI) in enhancing the Risk-Based Inspection (RBI) process globally within the company. This includes benchmarking approaches used by other companies, evaluating how AI can integrate with our current RBI workflows and platforms, and identifying relevant databases that AI models could leverage to provide additional insights.</p>

DUTIES AND RESPONSIBILITIES
KEY ACCOUNTABILITIES AND RESULTS /DELIVERABLES
<ul style="list-style-type: none"> - Provide a research summary of AI applications in RBI across the industry. - Evaluation of integration opportunities between AI technologies and the company's existing RBI platforms and workflows, including potential touchpoints and technical considerations - Recommendations for AI-compatible databases and data sources considering industry standards, equipment data, failure histories, inspection results, and materials information. - Presentation of key findings and proposed concept to stakeholders <p>Specific deliverables</p> <ul style="list-style-type: none"> - Data Readiness Assessment - Proposed Data Model, Network Diagram and Workflow Mock-up

LEADERSHIP		
(The shaded box indicates which Leadership apply to the position)		
Coordinates	Supervises	Manages
Guides work of others who perform essentially the same work. May organize, set priorities, schedule and review work, but has little to no responsibility to hire, terminate, review performance or make pay decisions.	Supervises work of others, including planning, assigning and scheduling work, reviewing work and ensuring quality standards, training staff and overseeing their productivity. May offer recommendations for hiring, termination and pay adjustments, but does not have responsibility for making these decisions.	Supervises work of others, including planning, assigning, scheduling and reviewing work, ensuring quality standards. Is responsible for hiring, terminating, training and developing, reviewing performance and administering corrective action for staff.

METHANEX CORE COMPETENCIES		
(The shaded box indicates which Methanex Core Competencies apply to the position)		
Individual Contributor	Managers, Supervisors, or Senior Individual Contributors	Senior Manager or Leader
Decision Quality Peer Relationships Drive for Results Self-Development Customer Focus Cross-Cultural Sensitivity	Dealing with Ambiguity Organisational Agility Developing Direct Reports and Others Managerial Courage Planning Cross-Cultural Agility	Strategic Agility Building Effective Teams Managing Vision and Purpose Motivating Others Sizing up People Global Business Knowledge

VISION AND VALUES	
Methanex Vision and Values	<p>Contributes to the organisational vision of Global Methanol Leadership and as a team member demonstrates the core values of integrity, trust, respect, professionalism and teamwork</p> <p>Undertakes all aspects of the role through living the Methanex values</p> <p>Demonstrated through feedback from team and leaders</p>
Responsible Care	Conducts all business in a manner which supports the Responsible Care® ethic

HEALTH AND SAFETY BEHAVIOURS			
(The shaded box indicates which Health and Safety Behaviours apply to the position)			
Topic	Everyone	Supervisors	Managers
Standards	Follow rules	Deliver health and safety excellence	Set high standards
Communication	Speak up	Encourage the team	Communicate openly
Risk Management	Be mindful	Promote risk awareness	Confront risk
Involvement	Get involved	Involve the team	Involve the workforce

POSITION SPECIFIC COMPETENCIES
<ul style="list-style-type: none"> • Strong software and database knowledge and skills • Analytical and research experience • Results driven, and goal orientated • Well organized • Communicates well within own group and other departments • Excellent written and verbal communication skills • Attention to detail • Ability to pick up and learn new things on the go

KEY WORKING RELATIONSHIPS (Internal and External)
<ul style="list-style-type: none"> • Global Static Equipment Team • NZ Reliability and Asset Integrity • NZ and Global IT team

KNOWLEDGE, SKILLS AND EXPERIENCE
<ul style="list-style-type: none">• Completed 2nd or 3rd year of a degree in Data Science or Engineering.• Strong analytical skills• Familiarity with Artificial Intelligence/Machine Learning concepts• Interest in industrial reliability and inspection processes are desirable

OTHER BACKGROUND INFORMATION
<ul style="list-style-type: none">• Available transport to Methanex site in Motunui required (public transport is not available)