



**Date:** September 2018

**Job title** Healthcare Data Analyst  
**Location** 42 Tawa Drive, Albany, Auckland  
**Reports to** Clinical Director, Health Outcomes

**Direct reports**

**Functional relationships with** Internal

- Clinical Directorate
- Business Support Services

External

- District Health Boards

The role is responsible for carrying out tasks to enable Comprehensive Care to maintain an environment of continuous improvement in the delivery of health services ensuring activities are conducted in an efficient, safe and high quality manner.

**Responsibilities**

Key Result Area	Performance measures
Connect analytical software to current data warehouse and Establish analytical platform/procedures for internal ad-hoc analysis	<ul style="list-style-type: none"> <li>• Robust data interface for analytical software (Python/Anaconda, R/R studio) to securely link to PHO data warehouses</li> <li>• Maintain data library and processes for ongoing aggregation of external data sources</li> <li>• Establish measures around patient privacy and data security</li> <li>• Establish a library of procedures for this work</li> </ul>
Create reproducible health variation needs analysis	<ul style="list-style-type: none"> <li>• Establish a library of procedures using analytical software for this work</li> </ul>
Provide Quality Improvement and related clinical information analysis	<ul style="list-style-type: none"> <li>• Creation of reproducible detailed analyses/sub-analyses of PHO data (from PHO data warehouse sources) to support clinical quality improvement (eg, SLM, MACGF, Risk indices, Top/Bottom/Middle performance bands)</li> </ul>
Assist Clinical Directorate to assess practice challenges and offer practical solutions	<ul style="list-style-type: none"> <li>• Create deep analyses of PHO data to support clinical quality improvement outreach and presentation</li> </ul>
Assist Clinical Directorate in delivering GP Peer Review and nursing Clinical Leadership and Management learning sessions	<ul style="list-style-type: none"> <li>• Create (reproducible) practice specific reports from PHO data to support clinical quality improvement outreach and presentation, and systems, to distribute to practices</li> </ul>

The employee will undertake other activities and duties as agreed from time to time.

## Behavioural Competencies

Adheres to organisational values of <i>Dynamic, Accountable, Respect, Trust</i>	
Behavioural competencies	Behaviour demonstrated
Communicates and works co-operatively	<ul style="list-style-type: none"> <li>Actively looks for ways to collaborate with and assist others to improve the experience of the workforce, patients and their families, the community and Iwi</li> </ul>
Is committed to learning	<ul style="list-style-type: none"> <li>Proactively follows up development needs for self and direct reports</li> </ul>
Is transparent	<ul style="list-style-type: none"> <li>Communicates openly and engages widely across the organisation</li> <li>Enacts agreed decisions with integrity</li> </ul>
Is customer focused	<ul style="list-style-type: none"> <li>Responds to people's needs appropriately</li> <li>Identifies opportunities for innovation and improvement</li> </ul>

## Person specification

	Minimum	Preferred
<b>Qualification</b>	<ul style="list-style-type: none"> <li>Tertiary qualification in relevant field</li> </ul>	<ul style="list-style-type: none"> <li>Post graduate qualification, especially in health analysis or health data science areas</li> </ul>
<b>Competence &amp; experience</b>	<ul style="list-style-type: none"> <li>Intermediate to advanced expertise with the following analytical, data science computational analysis and visualisation tools:               <ul style="list-style-type: none"> <li>Python, Anaconda suite, and/or</li> <li>R, R-Studio suite</li> </ul> </li> <li>Intermediate to advanced expertise in SQL database use</li> <li>Intermediate to advanced expertise connecting software tools to data warehouses</li> <li>Experience with population health and public health analyses, health needs and variation analyses</li> <li>Experience with system process improvement and variation analyses at a service, clinic or practice level, or comparable service setting</li> <li>Excellent report writing and presentation skills</li> </ul>	<ul style="list-style-type: none"> <li>Advanced expertise with Python, Anaconda data science tools</li> <li>Experience with R and R Studio tools</li> <li>Advanced SQL</li> <li>Intermediate or better expertise scripting (Python, R) and T-SQL</li> <li>Experience with Dashboard tools, viz:               <ul style="list-style-type: none"> <li>Qlikview or Qlik sense</li> <li>Python, Jupyter Notebooks</li> </ul> </li> </ul>