Masters Scholarship - Healthcare Pathways Discovery, Conformance and Enrichment

Healthcare pathways are critical for evidence-based healthcare, reducing clinical variability, and affecting operational excellence, thereby maximising health outcomes. They are business processes that reflect models of care. However, pathways usually result from clinician-led practice and "shift" with the introduction of new steps or resources to a pathway. Utilising business process modelling (BPM) for the explicit (re)design of pathways is not common in the health industry. This project will utilise BPM to provide a scaffold for healthcare pathway discovery, conformance analysis, and enrichment. It will provide improved evaluation and design of healthcare pathways with a consequent improvement in health outcomes.

Supported by Precision Driven Health, this project is located at the University of Auckland

To be eligible, applicants should have a strong mathematical, machine learning background and/or business process background.

The one year scholarship includes tuition and fees and a $15k stipend. The starting date is 26 February 2018.

For further information and to apply please email Dr Michael O'Sullivan (michael.osullivan@auckland.ac.nz).