

## UQ Winter Research Project Description - 2026

Please use this template to create a description of each research project, eligibility requirements and expected deliverables. Project details can then be uploaded to each faculty, school, institute, and centre webpage prior to the launch of the program.

<b>Project title:</b>	<b>Developing the Springfield Healthy Heart City-Level Monitoring External Data Collection Process</b>
<b>Hours of engagement &amp; delivery mode</b>	4 weeks. Hybrid with site located in Springfield Central (145 Sinnathamby Blvd). Attendance on Mondays are required.
<b>Description:</b>	<p><b><u>Background</u></b></p> <p>Springfield Healthy Hearts (SHH) is the flagship project for UQ's Centre for Community Health and Wellbeing (CCHW). The foundation behind the core work of CCHW is that more engaging and sustainable health prevention programs and activities will occur when these programs and activities are successfully integrated into and coordinated across the community. This essentially means we take health prevention concepts that have already have a strong evidence base demonstrating efficacy, co-design with community members and stakeholders an implementation strategy, ensure that this program integrates with other existing services and programs available in the community and implemented as co-designed together with an effective communications strategy to target users of its existence. This provides the best chance for long term intervention sustainability, acceptability, usability and reach.</p> <p>Under the SHH project umbrella sits not only each individual prevention program as mentioned above, but it also houses monitoring mechanisms which are designed to demonstrate overall effectiveness of a city-wide coordinated action to prevent chronic cardiovascular diseases.</p> <p>The SHH monitoring mechanism is made up of three levels:</p> <p><u>Level 1: The project level</u></p> <p>The project level aims to assess the individual intervention's implementation outcomes. These include reach, acceptability, feasibility and effectiveness at the individual intervention/project level.</p> <p><u>Level 2: The person level</u></p> <p>Since our projects are coordinated city-wide in Springfield, residents of Springfield will have either direct or indirect contact with any number of coordinated programs occurring in the city. There would also be direct and indirect impacts on their health outcomes as a result. We want to be able to understand how our city-wide approach impacts the health of residents. Level 2 data will be gained by doing a long term, repeated measures type study. Each year, we will randomly recruit people living in Springfield and survey their measures relevant to heart health and cardiovascular disease risk. This will help us paint a population-level picture of heart health and how it changes as SHH evolves over time.</p>

	<p><u>Level 3: The city level</u></p> <p>Publicly available data can provide city-level indicators of whether the SHH project is impacting heart health behaviours across the city. This data already exists or is relatively easy to collect without the need for individual's prior consent. For example, census data, deidentified hospital and health service activity data, wastewater chemistry, park and green space usage, bicycle path usage and city infrastructure development (e.g. installation of outdoor gyms and high quality footpath routes) will all help demonstrate the impacts of a coordinated SHH program. It also helps strengthen evidence of Level 2 findings and paints a holistic picture of how heart health evolves with the length of time the SHH program exists and grows.</p> <p><b>Your Task</b></p> <p>Much of the city level data (Level 3) will rely upon existing, regularly updated and publicly available data sources like the Australia Bureau of Statistics Census data. It will also rely upon periodic public surveys we would need to manually undertake, for example, the Bicycle Environment and Safety Audit (BESA).</p> <p><b>The aim</b> of this project is to first focus on ABS data sources that we have identified as important to Level 3 data collection. You will develop:</p> <ol style="list-style-type: none"> <li>1. Identify the frequency of updates for each dataset of interest.</li> <li>2. Learn and then develop standardised procedures to extract the key data in a format that will be useful for future researchers to use in their analyses and for an "at-a-glance" data dashboard we are developing.</li> <li>3. Format and produce each standardised procedure into a standardised template format for future reference.</li> <li>4. Create a task group in Microsoft Planner and data enter the dates of which the datasets need to be collected and set them up as recurring tasks for the correct times.</li> <li>5. If time allows, delve into other data sources of mutual interest and priority to do the same as above.</li> </ol>
<p><b>Expected learning outcomes and deliverables:</b></p>	<p>Your learning outcomes are:</p> <ol style="list-style-type: none"> <li>1. You will gain knowledge in how public datasets, particular ABS data can be built into custom tables for the purposes of health science research.</li> <li>2. You will learn about research data management.</li> <li>3. You will learn about research project management.</li> </ol> <p>Your deliverables are:</p> <ol style="list-style-type: none"> <li>1. A standard operating procedure template for this project.</li> <li>2. Standard operating procedure to extract from at least 2 key data sources.</li> <li>3. A task group in Microsoft Planner which allows our team to be informed of when these need to be refreshed.</li> <li>4. Any recommendations for the project team given to us in a reflection meeting at the end of your term with us.</li> </ol>

<b>Suitable for:</b>	Better suited for 3 <sup>rd</sup> or 4 <sup>th</sup> year students with interest in research and big data. Has some experience and/or interest in data management. Skilled with Excel and has some knowledge about databases (not required, but helpful).
<b>Primary Supervisor:</b>	Dr David Chua d.chua@uq.edu.au
<b>Further info:</b>	If you would like applicants to contact your unit for further information, please provide the relevant contact details here.  **Please highlight if the supervisor wishes to be contacted by students prior to submitting an application.