



2027 Summer Research Project Template

Help us present your project in a way that connects with the right students. Thoughtful, engaging descriptions tend to attract stronger and more suitable applications. Thank you for putting a project forward - these programs rely on your contribution, and we couldn't do it without you.

Section	Description
Project title	Nicotine wearable biosensor
Hours & delivery	20-36 hrs/week for 6 weeks between 11 January and 19 February 2027, can be a mixture of on campus (UQ Thoracic Research Centre UQTRC, The Prince Charles Hospital TPCH, Northside Clinical Unit, Chermside) and online.
About the project (150–250 words)	In collaboration with computer science and engineering experts at CSIRO and RMIT, we are developing and testing a novel wearable nicotine sensor. As part of this funded project we need to connect the biosensor to a smartphone app to allow notifications to the user. The student will have a background or interest in coding, app development and biosensors. The student will design an android app for use in a clinical feasibility study.
What you'll do (100-150 words)	The successful applicant will work in a multidisciplinary team of researchers (clinicians, public health computer science, engineering) to design a small research app allowing biosensor data to be fed back to the user. If the student successfully builds the app, there may be the possibility to extend the project to include in vitro biosensor testing.
Project outcomes (75–125 words)	Build an Android smartphone app to connect with a BLE enabled biosensor in real time. Bluetooth® Low Energy transceiver: https://www.digikey.in/en/products/detail/renesas-electronics-corporation/DA14531MOD-00F01002/11685947?msocid=2ecc1bea6d8c6ba701eb0b8c6cff6aec
Who should apply? (75–125 words)	Open to any student with the requisite skills including pre-med, engineering, computer science. If successful, there will be potential for PhD opportunities.
Team & supervision (75–125 words)	Dr Henry Marshall, Thoracic Physician QH/UQ Dr Hollie Bendotti, Public Health Researcher UQ Dr David Ireland, Computer Scientist CSIRO Dr Md. Ataur Rahman, Electronics Engineer RMIT
Additional opportunities (optional)	There will be opportunities to present at lab meetings at UQ, CSIRO, RMIT
Contact	(Yes/No), students may contact the supervisor before applying. Direct enquiries to: _Hollie Bendotti h.bendotti@uq.edu.au _____