

Queensland University of Technology

We are seeking two biomedical or biological science graduate to undertake PhD projects funded by Australian Research Council at Queensland University of Technology, Brisbane.

The Child and Reproductive Health group in the School of Biomedical Sciences and Institute of Health & Biomedical Innovation (IHBI), QUT, based at Centre for Children's Health Research (CCHR) is seeking two biomedical or biological science graduates to undertake PhD projects. Applicants should have experience in biochemical, cell and molecular biology and meet QUT's PhD entry requirements. There are two PhD Scholarships available.

This PhD offers the opportunity to work with an internationally recognised team under the supervision of Professor Murray Mitchell. Successful applicants will be working in an interdisciplinary environment with access to world-class researchers and cutting-edge facilities. The projects will involve (i) the measurements of lipids, nucleic acids and proteins/cytokines within exosomes isolated from bovine biological fluids (e.g. milk/plasma) (ii) evaluations of exosomal effects on cell responsiveness and cellular pathways. In particular, the roles of eicosanoids and endocannabinoids will be evaluated to study higher and lower fertility, metabolic status and reproductive pathways.

Methods to be conducted within this PhD include: Exosome isolation, mass spectrometric profiling, miRNA profiling, ELISA, PCR arrays and cell culture.

The Scholarship: A full-time living stipend of \$31,298 per annum; 3 years duration; tax exempt.

The successful applicants will:

- meet [QUT academic and English entry requirements](#)
- have completed a primary Honours degree (Honours Class 1 or Class 2A) or a Master's degree (must include a significant research component and thesis equal to at least 25% of the total degree) in a relevant area (e.g biochemical/cell or molecular biology, reproductive biology)
- be competitive for a Research Training Program (RTP) scholarship or equivalent (refer to the [Annual Scholarship Round Guidelines](#) for Faculty of Health assessment criteria)
- have excellent oral and written communication skills

For more information about the scholarship or application process or to apply email Professor Murray Mitchell (murray.mitchell@qut.edu.au).