



MONASH
University

PhD Scholarship

Nutrient legacies: integrating history into water quality modeling

The opportunity:

The Faculty of Engineering at Monash University invites applications for a fully-funded 3 year PhD scholarship. The successful candidate will participate in a newly-funded ARC DECRA (Discovery Early Career Researcher Award) project. The project will commence in 2026, and aims to understand and model the impact of historical activities in agricultural catchments on nutrient pollution in rivers. The PhD is largely within the field of hydrology, however the project will involve collaboration with biogeochemists and archaeologists.

The candidate will undertake strategic sampling of Victorian oxbow lakes (billabongs) and analysis of samples for nutrients. The candidate will finally produce a model of the impact of historical agricultural activities and legacy nutrients on nutrient pollution in creeks and streams.

The successful candidate will be supervised by Dr Anna Lintern (Faculty of Engineering, Monash University).

Necessary skills:

Applicants are expected to have a MEng, BEng in Hydrology, Civil Engineering, Environmental Engineering or Water Resources Engineering (or equivalent) with 1st Class Honours. Students are expected to have a willingness to learn new laboratory techniques, engage in field work and experience with programming tools (or a willingness to learn). Candidates who have demonstrated experience in inter-disciplinary or multi-disciplinary work will be looked upon extremely favorably. Students will be expected to travel (via car) to regional Victoria for field work.

Successful students will be joining the Green Infrastructure and Water Quality (GIWaQ) Research Group in the Department of Civil and Environmental Engineering at Monash University.

Remuneration:

Students will receive an allowance of \$37,145 p.a. (2025 rate, tax free). Top-up scholarships may be available to excellent candidates. Students have an expected start date of early 2027.

To apply and for more information:

Please contact Dr Anna Lintern (anna.lintern@monash.edu), with a CV, academic transcript and statement of interest in the project. The position will remain open until filled.