

One Basin CRC PhD Opportunities



Project ID

1B25-B

Date advertised

4 July 2025

University

To be confirmed (from ANU, Flinders U, CSU, U Adelaide, U Melbourne, U Southern Queensland, U Sydney)

Primary supervisor(s)

To be confirmed

Co-supervisors

To be confirmed

Industry Partner(s)

Southern Queensland Landscapes

The One Basin Cooperative Research Centre (One Basin CRC) offers attractive PhD packages in a broad range of disciplinary fields and across multiple universities in Australia.

Key features

- 3.5-year scholarship, Flexible funding up to AU\$70,000 funding package (allocated between stipend and operating costs)
- Industry embedded through 6-month internship (or part-time equivalent) and opportunities for travel, networking, and engagement with local communities and partner organisations.
- Candidates will spend the majority of their time at One Basin CRC's Loxton, Mildura, Griffith, or Goondiwindi hubs.

Project working title

First Nations and community led development of best practice management of billabongs and water hole chains in the Northern Murray-Darling Basin

Description of the topic of PhD project

We are seeking to undertake research in collaboration with First Nations and other local communities to develop multi-functional billabongs and water hole chains along river courses in the Border Rivers, Condamine-Balonne and Moonie catchments of the Northern Murray-Darling Basin. The project can consider the potential for riparian fencing & in-river infrastructure to recreate/create wetlands and establish nature refuges for extreme dry and drought periods. It could draw on concepts of slowing the flow and saving the flow for nature. We anticipate using an action research methodology over at least three seasons on selected demonstration sites (such as Munga Lake) and exploring the potential for citizen science contributions. Potential research questions to be developed with the input of a prospective candidate include:

- Where are the best opportunities for species habitat restoration and fall back during dry periods?
- How low to go before top-up is good for the local environment and/or needed?
- Where are the current and potential corridors for waterhole chains?
- What are the broader implications and impacts of wetland restoration, and what planning and policy settings are needed to undertake these projects and scale them?

Requisite qualifications and experience

Individuals with Masters or honours degrees in the following disciplines, or with equivalent research or work experience, are invited to make an expression of interest: **Indigenous studies, Environmental Science, Ecology, Natural Resource Management, Hydrology, Water Resource Management, Geospatial and Data Science, Remote Sensing, Earth Science, Geography, Community development.**

Applicants will need to meet the eligibility requirements of the host university's PhD program

Mike Stewardson
One Basin CRC CEO



Apply via:
onebasin.com.au

"Our PhD program will give you the professional skills and networks to accelerate your career in research or practice across the water, agriculture or environmental sectors."

