



Kickstart your career with CSIRO's Industry PhD

Earn your PhD in partnership with industry, a leading university, and Australia's national science agency, CSIRO.

The CSIRO Industry PhD Program (iPhD) is a research training program, focusing on applied research that benefits industry by solving real-world challenges. It aims to produce the next generation of innovation leaders with the skills to work at the interface of research and industry in Australia.

The opportunity

- Admission to a university PhD program
- A four-year scholarship valued at \$46,000 per annum (2024 rate)
- A project expense and development package of up to \$13,000 per annum
- Supervision by CSIRO, an industry partner and the host university
- A 60 day Industry Engagement component with the industry partner
- A structured professional development and training package

Successful students will receive a PhD on completion.

Eligibility requirements

The student must:

- Be an Australian citizen or Permanent Resident, or a New Zealand citizen.
- Meet participating university PhD admission requirements.
- Meet university English language requirements.
- Not have previously completed a PhD.
- Be able to commence the Program in the year of the offer.
- Enrol as a full-time PhD student.
- Be prepared to be located at the project location(s) that the host university has approved and, if required, comply with the host university's external enrolment procedures.

Application process

- Applicants submit an expression of interest (EOI) following the instructions on the university's webpage or directly by emailing the supervisory team. Applications are open until position is filled.
- The EOI is assessed by the supervisory team and shortlisted applicants are interviewed.
- The supervisory team nominates a preferred applicant.
- The application is assessed by the university against PhD admission criteria.
- The university will issue a letter of offer for the program if all conditions have been satisfied.



FOR FURTHER INFORMATION

- Visit the [iPhD website](#)
- Contact the [Graduate Research School](#)
- Contact the [iPhD team](#)



Project overview

Screening of new sorbent formulations and materials for PFAS remediation

Australia is faced with a big contamination problem relating to chemicals used in firefighting foams, called per and polyfluoroalkyl substances or PFAS. PFAS are a large group of chemicals, with over 5000 different species. Their complexity has posed a challenge with existing remediation approaches based on sorbents, with varying success achieved for different PFAS species. For example, current sorbents available in the market cannot effectively immobilise short-chain PFAS.

This Project aims to screen different materials including minerals or by products of some industries for PFAS removal and combine them in RemBind formulation. It will also include some surface modification based on published literatures to improve the efficiency of RemBind for short-chain PFAS removal. The final material will be effective for removal of a wider range of PFAS and allow tailored solutions for PFAS immobilisation in soil.

This Project will assist the PhD Student to develop skills in material and soil science, environmental chemistry, analytical techniques and soil management. It also provides an opportunity for the Student to work with RemBind.

SUPERVISORY TEAM DETAILS	
The University of Adelaide	Shervin Kabiri shervin.kabiri@adelaide.edu.au
CSIRO	Divina Navarro Divina.Navarro@csiro.au
Rembind Pty Ltd	The RemBind Solution

Ideal student skillset

Essential

- Chemistry or materials science knowledge
- Excellent communication and organizational skills

Desirable

- Extensive knowledge or experience in materials synthesis, minerals, environmental science, and analytical chemistry
- Innovation and creativity skills

PROJECT LOCATIONS	
Primary location	CSIRO, Waite Campus
Industry Engagement component location	RemBind, 2 Ann Nelson Drive, Thebarton, SA
Other potential locations	University of Adelaide, Waite Campus