



Australia's National Science Agency

# Industry PhD (iPhD) Program

iPhD webinar and student perspectives

19 February 2024



I would like to begin by acknowledging the Traditional Owners of the lands that we're meeting on today.

I pay my respect to their Elders past and present and I recognise their continuing connection and custodianship of the lands, seas, and waters throughout Australia.

I would like to extend this acknowledgement to all Traditional Owners of the various lands on which each of you live and work.





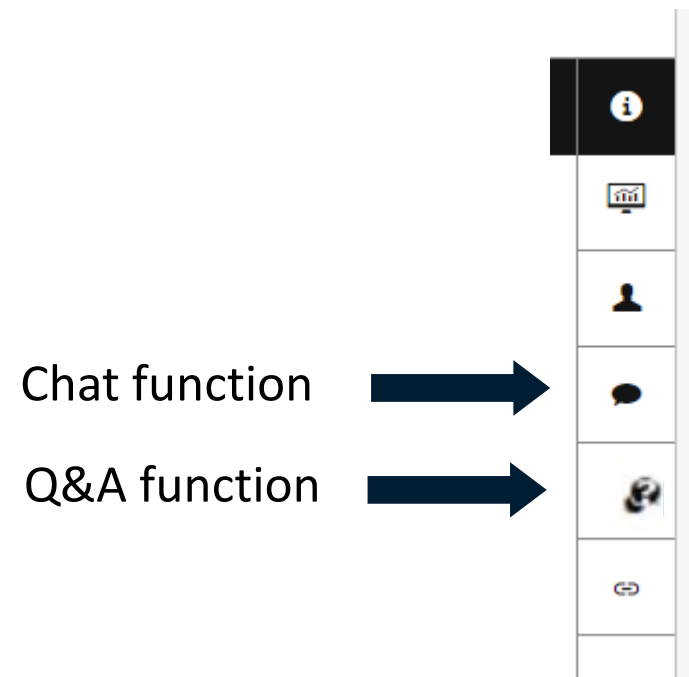
# Welcome



## Agenda

- Program features & benefits
- Student panel discussion
- Q&A

# How to use chat and ask a question



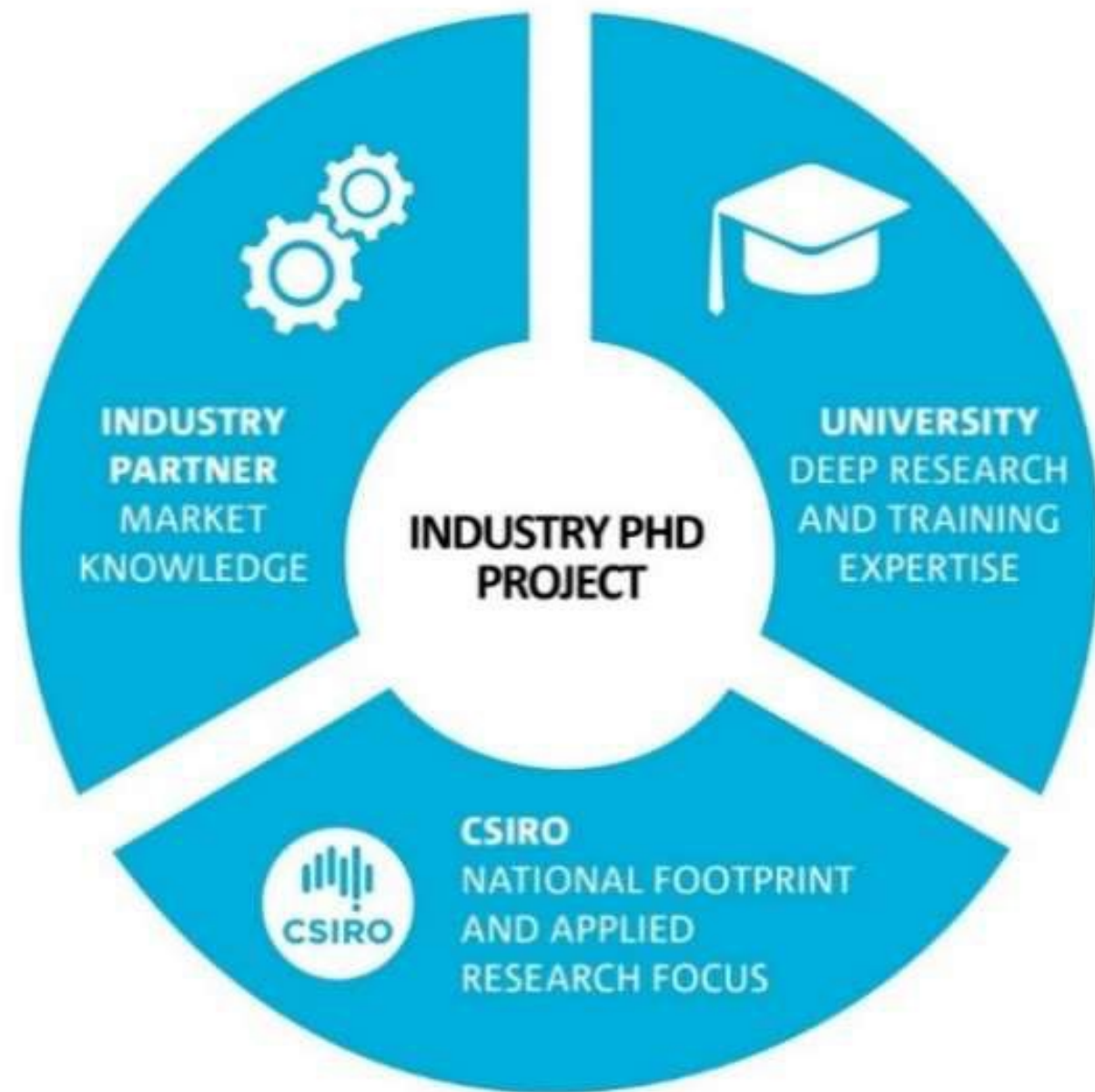
THIS SESSION IS BEING RECORDED AND WILL BE MADE PUBLICLY AVAILABLE



# Overview

The iPhD program brings together an **industry partner**, a **university** partner and **CSIRO** to co-develop and co-supervise an industry-focused PhD project.

We are currently seeking high calibre **domestic** students to grow our industries through research.



# Timeline



## iPhD project development

Primary EOI round: 1 Feb - 19 Apr  
(approx. 35 projects)

Secondary EOI round: 20 Apr - 23 Aug  
(approx. 15 projects)



## Collaboration agreement

A contract is executed three months  
after application approval



## Student recruitment

The project is advertised, and a  
student is selected, enrolled and  
onboarded



## iPhD commencement

Student supervision is shared between  
university, industry and CSIRO partners



February 2024

February 2025

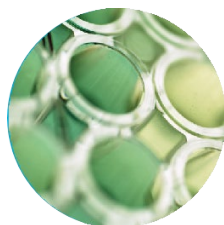
# The iPhD student experience



**Admission** to a university PhD program



**Supervision** by university, CSIRO and industry



Four-year **scholarship** of \$47,020 per annum



Four-year **project expense package** of \$13,000 per annum



60-day **Industry Engagement** component



Embedded **professional development and training** program





# iPhD Program funding and support

Funded by the Australian Government and the industry partner for up to four years.

## Student scholarship

\$47,020 per annum comprising of \$35,020 provided by Government and \$12,000 provided by industry partner

## Project expense and development package

\$13,000 per annum provided by Government

## Student career and professional development training

Funded by Government





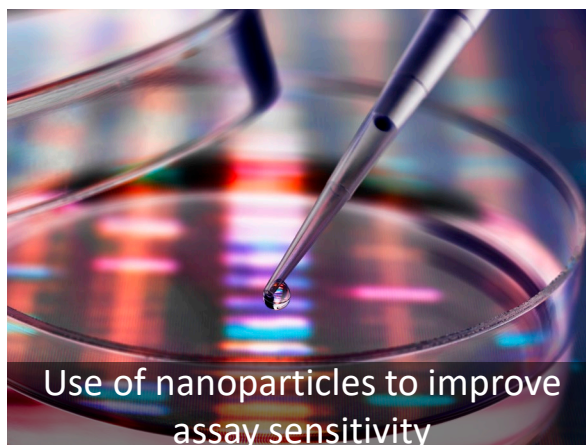
# iPhD embedded industry engagement

- Duration of at least 60 days throughout the PhD
- Full-time, part-time or in short strategic blocks
- Location is the premises of the industry partner
- Activities contribute to the development, research and outcomes of the PhD.





# Examples of industry engagement





# iPhD embedded training program

- Approximately 20 days of career and professional development across four years
- Mostly online and self-pace.







# Student eligibility

- Australian citizen or permanent resident, or a New Zealand citizen
- meet host university PhD admission requirements
- meet university English language requirements
- have not previously completed a PhD
- be prepared to be located at the project location(s).





# Current iPhD scholarships available

## WA

**Edith Cowan University** - Woodside Energy  
**Murdoch University** - Tronox Mining Australia  
**Curtin University** - Alcoa of Australia

## SA

**University of Adelaide** - Rembind  
**University of Adelaide** - Vilenna Investments  
(Space Down Under)

## VIC

**La Trobe University** - Ezy Chef Technologies  
**Federation University**  
- Techplus Control System  
- Foton Mobility Distribution  
**Swinburne University of Technology**  
- Cassinia Environmental  
- Infrabuild Wire  
- Fourier Space  
**The University of Melbourne**  
- mDetect  
**Monash University**  
- Dassault Systemes Au



Scan the QR code to view scholarships  
or visit [www.csiro.au/iPhD](http://www.csiro.au/iPhD)

## QLD

**University of Southern Queensland** - Tunstall  
Australasia

## NSW

**Macquarie University**  
- Evergreen Fund Managers  
- Pells Sullivan Meynink  
- MMG Dugald River  
**University of Sydney** - GrapheneX  
**Western Sydney University** - EM BE CE  
**The University of Newcastle** - EarthSure

## ACT

**Australian National University** - Buru Energy  
**Australian National University** - Australian  
Grain Technologies



# iPhD project examples

## Call centre service training and quality improvement system

- **University:** University of Southern Queensland
- **Industry partner:** Tunstall Healthcare
- **CSIRO:** Health & Biosecurity

**Project overview:** Call centre operators deal with distressed clients and the quality of interaction is critical. The project will develop algorithms that can monitor vocal properties.

### Ideal student skills:

- Python programming
- Systems development
- Machine Learning

## Supporting the circular economy by recovering critical minerals

- **University:** Murdoch University
- **Industry partner:** Tronox Mining
- **CSIRO:** Mineral Resources

**Project overview:** A review of the waste streams to determine ways to extract and recover critical minerals to improve sustainability.

### Ideal student skills:

- Extractive metallurgy
- Mineral science
- Chemical engineering
- Applied chemistry

# iPhD student panel



Henry Purbrick

- **University:** UWA
- **Industry Partner:** Dimerix
- **CSIRO:** Health and Biosecurity
  
- **Project title:** Investigating GPCR heteromers in inflammatory/fibrotic disease indications.



Karla Heric

- **University:** Victoria University
- **Industry Partner:** Iota Services
- **CSIRO:** Manufacturing
  
- **Project title:** Microbial breakdown of Microplastics for wastewater treatment



Kristin Magarry

- **University:** Griffith University
- **Industry Partner:** Hyper Theory
- **CSIRO:** Health and Biosecurity
  
- **Project title:** Co-creating and evaluating the Mind Maze program in Australian primary schools



# iPhD application pathway



## **Submit Expression of Interest**

Email the university supervisor listed or follow the instructions on the university webpage



## **Attend interview**

If shortlisted, attend an interview with the supervisory team



## **Submit formal application**

If successful, apply for the position following the university's instructions



## **Accept letter of offer**

If admission criteria is met, accept university's letter of offer



# iPhD student benefits



Greater impact with industry relevant research



Access to specialised expertise, equipment and training



Strengthen knowledge in innovation and translation of research



Boost employability and broaden future career opportunities



Develop networks with industry, university and CSIRO



Grow professional skills such as communication, teamwork, management and organisational skills



# Next Steps



Scan the QR code to view  
available scholarships

[iPhD@csiro.au](mailto:iPhD@csiro.au)

[www.csiro.au/iPhD](http://www.csiro.au/iPhD)

