



# 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 \$47,000 per annum (2025 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.

## Project overview

### Evaluating Robotic Medical Surgery with Multimodal and Responsible AI

This project aims to develop multimodal and responsible artificial intelligence (AI) for automated robotic surgery assessment.

The expected outcome is to develop multimodal and responsible AI for automated robotic surgery assessment.

The potential benefit is enhanced surgical training, improved patient outcomes, reduced training costs, and increased transparency.

SUPERVISORY TEAM DETAILS	
Royal Melbourne Institute of Technology	Ke Deng Yongli Ren <a href="mailto:ke.deng@rmit.edu.au">ke.deng@rmit.edu.au</a> <a href="mailto:yongli.ren@rmit.edu.au">yongli.ren@rmit.edu.au</a>
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<a href="#">IMRA Surgical Pty Ltd</a>	Helen Mohan <a href="mailto:Helenm@imrasurgical.com">Helenm@imrasurgical.com</a>

## Ideal student skillset

- Proficiency in developing and deploying machine learning models, understanding computer vision techniques, ensuring data privacy, and developing software systems is essential.
- Good collaboration and communication skills to engage with stakeholders and researchers.
- Strong research skills to conduct literature reviews
- Project management expertise to facilitate task coordination and meeting deadlines.
- Understanding of ethical considerations regarding AI in healthcare.

PROJECT LOCATIONS	
Primary location	RMIT, 124 La Trobe Street, Melbourne VIC 3000
Industry Engagement component location	IMRA Surgical Pty Ltd, Level 7, 14-20 Blackwood Street, North Melbourne VIC 3051
Other potential location	CSIRO Clayton, Research Way, Clayton VIC 3168



### FOR FURTHER INFORMATION

- Visit the [iPhD website](#)
- Contact the [project's supervisory team](#)
- Contact the University's Graduate Research School
- Contact the [iPhD team](#)

