



## DIGITAL HEALTH CRC PHD SCHOLARSHIP – SURGICAL ROBOTICS LEARNING LOOPS

### Practice Analytics Research Program Context

The Practice Analytics program seeks to understand how hospitals can provide clinical teams and individual clinicians actionable data that relates to the quality of clinical practice. This project is a collaboration between multiple partners across Australia including the Royal Australasian College of Surgeons, Royal Australasian College of Physicians, Cabrini Healthcare (VIC), Sydney Adventist Healthcare (NSW), St John of God hospital (WA), Ramsay Hospital Research Foundation and Epworth Healthcare (VIC). The project is funded by the Digital Health Centre for Cooperative Research. The program includes a number of PHD and postdoctoral research projects that are exploring how we can optimise the use of health data by clinicians and teams to support reflective practice and continuous quality improvement. Current projects include understanding what data is most impactful on practice, how data can best be visualised, understanding how clinicians make sense of data, and how data usage links with continuing professional development.

### PhD Project Overview

This new research project is designed to explore how data generated from emerging health technologies such as surgical robots can be combined with other data sources to support health professional practice reflection and learning. The project will map data sources including those from surgical robotics devices available in the market, and characterise how these data can be used to understand performance. These data will then be analysed to determine the extent to which they can be used to support feedback loops for individual practice reflection and improvement, as well as how this links with professional development. There is scope for this project to explore the experiences of health professionals with robotics and other data and understand how they perceive these data being utilised for individual and team learning. The use of surgical robots is increasing, and this project represents an important step in understanding how we can support reflective practice for clinicians using these devices.

### The Digital Health CRC Higher Degree Research Programme

A DHCRC collaborative research HDR programme is not a typical doctoral research degree, it is an educational experience where a candidate will work on cutting-edge digital health projects, solve complex problems and be supported to undertake applied research that inspires change and makes a difference through real-world impact. This programme will develop new and emerging talent and produce graduates who understand industry, are confident, competent, collaborative, research-capable and health workforce-ready.

KEY BENEFITS 1. Receive a generous scholarship package, admission to an exclusive education program and access to a merit-based development fund 2. Be part of a small, well-connected, interdisciplinary community of students, researchers and industry professionals 3. Engage in a tailored development program customised to your needs 4. Build a portfolio of transferable and research skills to support career progression, promotion and employability 5. Develop linkages and establish a contact network through on-the-job training 6. Receive world-class support from respective academics in the relevant field

PhD SCHOLARSHIP INCLUDES: 1. Living allowance: \$40,000 (tax-free) per annum 2. Education allowance: \$5,000 per annum (education-related expenses for 3 years, e.g. laptop, conference attendance and open access publication fees) 3. Project travel: \$5,000 per annum (travel costs for 3 years only for the purposes of the project)

### Enquiries

The primary supervisor for this PhD project is Professor Tim Shaw. It is strongly encouraged that you contact Prof Tim Shaw prior to submission of the EOI to discuss the project. He can be contacted via: [tim.shaw@sydney.edu.au](mailto:tim.shaw@sydney.edu.au)