

Position Title	Research Fellow
Group/Portfolio	School of Information and Communication Technology
Classification	Research Fellow Grade 1
Position Number	00063645
Reports To	Head of School
Employment Type	Fixed Term

1.0 Position Purpose

The Research Fellow position involves contributing to MRFF funded project “National data infrastructure to inform treatment in cerebral palsy”

Cerebral Palsy (CP), the most common physical disability in childhood, affects 19.5 million people worldwide. Many children with CP require orthopaedic surgery before age 15 to improve mobility, correct deformities, and sustain long-term ambulation, but evidence supporting surgical interventions remains limited. This project aims to create a national research platform with advanced technologies for multicentre benchmarking, and causal inference predictive modelling tools to identify the most effective treatments and optimal timing for intervention. The outcomes will inform evidence-based clinical guidelines for CP surgical care in Australia and globally.

The appointee will have the opportunity to collaborate with researchers and clinical practitioners across 6 hospitals in Australia, as well as researchers in NZ and US, to develop cutting-edge AI algorithms and digital tools to inform CP intervention and treatment.

2.0 Eligibility Requirements

- The occupant of this position will hold a PhD in the field of Computer Science or Applied Mathematics or equivalent qualifications/work experience in a relevant field
- Strong familiarity with state-of-the-art machine learning techniques is a prerequisite.

3.0 Key Responsibilities

- Conduct research that contributes to the development of an AI-empowered Gait analysis and modelling pipeline for the project and contributes to the research objectives of the School.
- Develop a good publication record in high impact, international, esteemed peer-reviewed journals and to seek competitive funding.
- Contribute to the School’s research projects as appropriate to research skills.
- Contribute to teaching activities as required, including convenorship of

undergraduate courses in the School.

- Manage the preparation and formulation of publications, presentations and research reports arising from the research.
- Assist in mentoring and supervision of higher degree research candidates.
- Supervise Research Assistants and technical staff.
- Support compliance with relevant legislation and University policies and procedures, including research ethics, equity and health & safety, laboratory standards and exhibit good practice in relation to same.
- Be a leading example of the principles and values embodied in the University's Code of Conduct, and behave, act and communicate at all times to reflect fairness, ethics and professionalism.

4.0 Key Capabilities

- Griffith University identifies the attributes of resilience, flexibility, creativity, digital literacy and entrepreneurship as critical to our graduates' success, in the rapidly changing future world of work. We have established a Griffith University Capability Development Framework to provide a common language of some of the non-technical organisation skills that will support our staff to thrive now and into the future. The Capability Development Framework will assist you to understand the current skill level of this position in the non-technical but critical skill domains that are increasingly important in a changing workplace context.

To read about some of the non-technical organisation skills for this position, please see the Leads Self section of our [Capability Development Framework](#).