

Position Title	Senior Research Assistant
Group/Portfolio	Australian Centre for Precision Health and Technology
Classification	Senior Research Assistant
Position Number	00064283
Reports To	Associate Professor (Level D)
Employment Type	Fixed Term

1.0 Position Purpose

This position is a member of the Australian Centre for Precision Health and Technology (PRECISE), formally identified as the Griffith Centre of Biomedical and Rehabilitation Engineering (GCORE), and will be employed on funded project(s) within the research centre.

PRECISE represents people from Griffith University, the Gold Coast University Hospital, and other hospitals on the Gold Coast and in Brisbane, that are passionate about innovation, research and education across the 'Lifecycle' of orthopaedic, cardiovascular and neuromusculoskeletal conditions. PRECISE embraces an active collaborative environment between researchers, engineers, designers, ICT, clinicians and health professionals, and organisational partnerships. PRECISE also has a large range of training and engagement activities, including promoting knowledge and skills exchange, and connecting through new disruptive technologies to engage with the world through innovative advancement in the management of orthopaedic and neuromusculoskeletal conditions.

The Research Assistant will lead hardware and firmware development, testing, verification and validation activities within the BioSpine research program, supporting progress toward TGA submission. The position will integrate, test, and debug biosignal acquisition hardware, embedded firmware, electronic components, sensors, and electromechanical devices, ensuring systems are safe, functional, and ready for deployment in clinic and home-based settings.

2.0 Eligibility Requirements

- The occupant of this position will hold a Masters Degree or equivalent qualifications/work experience in a relevant field.

3.0 Key Responsibilities

- Conduct research that contributes to the research objectives of the Australian Centre for Precision Health and Technology.
- Lead planning, execution, and documentation of hardware and firmware verification and validation protocols, from individual sub-systems through to hardware-in-the-loop integration, ensuring activities are supported by documentation consistent with quality management system (QMS) and TGA regulatory requirements.
- Conduct bench-level testing and debugging of biosignal acquisition hardware and firmware, including analog front-end, power, grounding, and signal noise

management.

- Maintain and extend embedded firmware for sensor sub-systems.
- Design, implement, and maintain automated hardware and software tests, and contribute to improvements in code quality and test coverage across the BioSpine platform.
- Contribute to the preparation of research outputs, including publications, presentations, and reports arising from software architecture and systems integration activities, and comply with relevant research ethics, quality, and safety standards.
- Assist with the design of data collection, scientific tests or interview regime.
- Be responsible for data collection, storage and preliminary analysis of data collected in accordance with the research protocols as stipulated.
- Management and drafting of reports and scholarly articles.
- Manage the coordination of meetings between researchers and participating external administrators as required.
- Supervise Research Assistants Grade 1 and technical staff.
- Ensure compliance with relevant legislation and University policies and procedures, including research ethics, equity and health & safety 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](#).

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2.0 Eligibility Requirements

- The occupant of this position will hold a Bachelor Degree, or an equivalent combination of qualifications and/or experience.

3.0 Key Responsibilities

- Conduct research that contributes to the research objectives of the Australian Centre for Precision Health and Technology.
- Support planning, execution, and documentation of hardware and firmware verification and validation protocols, from individual sub-systems through to hardware-in-the-loop integration, ensuring activities are supported by documentation consistent with quality management system (QMS) and TGA regulatory requirements.
- Conduct bench-level testing and debugging of biosignal acquisition hardware and firmware, including analog front-end, power, grounding, and signal noise

management.

- Maintain and extend embedded firmware for sensor sub-systems.
- Design, implement, and maintain automated hardware and software tests, and contribute to improvements in code quality and test coverage across the BioSpine platform.
- Contribute to the preparation of research outputs, including publications, presentations, and reports arising from software architecture and systems integration activities, and comply with relevant research ethics, quality, and safety standards.
- Assist with the design of data collection, scientific tests or interview regime.
- Support data collection, storage and preliminary analysis of data collected in accordance with the research protocols as stipulated.
- Support drafting of reports and scholarly articles.
- Coordinate meetings between researchers and participating external participants as required.
- 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.

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