Position Description

Position Title: Research Assistant: Imaging Analysis	**Date Prepared:** October 2021
Position Reports To: Graeme Jackson	**Theme/Team:** Neuroimaging Theme – Australian epilepsy Project
Classification: RA2-RA5 Full time	**Location:** MBC Austin Campus

About the Australian Epilepsy Project

The Australian Epilepsy Project (AEP) is a National-scale research programme that has recently been funded by the Medical Research Future Fund (MRFF) Frontiers Initiative. The objectives of the Australian Epilepsy Project are to:

Change the lives of people with epilepsy though access to globally leading diagnostics,
AND
Accelerate the next wave of health – big data, machine learning and entrepreneurship.

The AEP seeks to add like-minded professionals to their team. People who are driven by a sense of purpose, are passionate about the translation of medical research to clinical practice and who are committed to changing the lives of people living with epilepsy for the better.

Key Relationships: • Neuroimaging Theme research group • Florey Human Imaging Facility • Austin Health Comprehensive Epilepsy Program	**Primary Purpose:** The position contributes to the scientific activity of the Neuroimaging Theme research group and the Australian Epilepsy Project. Primary activities include application and implementation of advanced data analysis techniques, and participant data acquisition according to study protocols . These activities will support the Theme goals of achieving high research quality in people with epilepsy leading to effective team research publication outputs.

Primary Responsibilities:
Research Assistance:

- Apply advanced processing, analysis and statistical techniques relevant to MRI and EEG data.
- Implement and refine data analysis tools under researcher guidance (for example using R, MATLAB or Python).
- Acquisition of MRI and survey data according to agreed protocols

- Assist with acquisition of simultaneous EEG-fMRI data according to study protocols
- Management of databases containing relevant study records and activity schedules.
- Contribute to feedback on the development of research to the Principal Investigator
- Ownership and initiative taken over agreed research project activities and deadlines
- Conduct agreed tasks semi- independently and co-ordinate with others in your team
- Attend and contribute to research team meetings, including presentation of cases and results
- Scientific integrity standards are upheld

Occupational Health & Safety:

- Eliminate, or otherwise reduce so far as practicable, the risks of injuries, diseases and ill health that arise as a result of Florey Institute activities through compliance with the Florey OH&S policy and procedure
- Continually incorporate and support improvement of the management of OH&S practices for Florey related activities
- Create and promote a positive and equitable workplace through awareness of issues that impact on health and wellbeing

Skills/Qualifications:

Education & Training

- Essential: Bachelor of Science (Honours/Masters) or equivalent degree
- Desirable: Training and/or conference participation related to neuroimaging, epilepsy or computer science.

Experience/Knowledge:

- Essential
  - 1+ years Research Assistant employment experience
  - Experience in neuroscience, imaging, neuroanatomy or epilepsy research
  - Understanding of and compliance with OHS laboratory requirements
- Desirable
  - Experience with neuroimaging computing software (e.g SPM, FreeSurfer), and/or scientific programming tools (e.g R, MATLAB, Python, GitHub, Linux).
  - Experience with recruitment and assessment of human research participants.
  - Evidence of neuroscience research experience via co-authorship of peer- reviewed publications.

General Attributes:

- Positive 'can do' attitude
- Excellent written and verbal communication skills
- Demonstrates initiative and continuous development of skills
- Ability to work collaboratively as part of a team
- Accuracy and attention to detail
- Strong time management skills

Employee Name:	**Employee Signature:**	**Date:**