# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Clinical Research Scientist - Neuropsychiatry Specialist (Part Time) |
| Job Reference | 70812 |
| Tenure | Specified Term of 3 years  Part-time 16 hours/ftn |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Herston – RBWH, Brisbane QLD |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Position reports to the | Team Leader NeuroImaging in ageing |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Jurgen Fripp via email at: [Jurgen.Fripp@csiro.au](mailto:Jurgen.Fripp@csiro.au) |
| How to apply | Apply online at <https://jobs.csiro.au/>  Internal applicants please apply via **Jobs Central**  If you experience difficulties when applying, please email [careers.online@csiro.au](mailto:careers.online@csiro.au) or call 1300 984 220. |

### Role Overview

The role of Clinical Research Scientist – Neuropsychiatry Specialist is to work within the “NeuroImaging in Ageing” research team in our Biomedical Informatics group. This team has built strong research collaborations with key research groups around Australia in the area of medical imaging and biostatistics to help understand the natural history of dementia and modifiable risk factors that will enable healthy ageing and brain health.

This role will undertake research into health ageing and Alzheimer’s disease, based around advanced biomarkers extracted from MR and PET imaging. In addition, their expertise will be utilized in an ever growing list of inter-institutional collaborations with clinicians and external scientists.

From a technical perspective, the research scientist will be involved in utilizing techniques that analyse MR and PET images to perform cross population analyses to detect subtle differences in brain structure and how these change over time. A focus will be on discovering early imaging biomarkers, and their relationship with disease staging and future clinical prognosis.

In addition, to the Clinical Research Scientist traditional background, they will be exposed to

* A differentiated career development program to deliver capability excellence and breadth across all facets of the national innovation system.
* Research training via strategic research and development projects with a clear focus that will deliver real impact through science and engineering excellence.
* An innovative culture supporting the development and demonstration of original thinking and expertise leading to peer-recognition.
* Opportunities to develop skills and experience in collaborative research teams to effectively work within national and global multi/transdisciplinary and multi-stakeholder environments.

### Duties and Key Result Areas:

* Carry out innovative, impactful research of strategic importance to CSIRO that will, where possible, lead to novel and important scientific and clinical outcomes.
* Support the supervision of PhD students and vacation work students.
* Design and conduct the research study, including data collection and analysis of existing and new data.
* Communication of the results in high quality journals, client reports. Supporting the drafting of patents to protect IP as needed
* Work collaboratively with colleagues within your team, the business unit and across CSIRO.
* Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## **Required Competencies:**

* **Teamwork and Collaboration:** Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.
* **Influence and Communication:** Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others reactions.
* **Resource Management/Leadership:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
* **Independence:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **Adaptability:**Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

## **Selection Criteria**

#### Essential

*Under CSIRO policy only those who meet all essential criteria can be appointed.*

1. A doctorate in a relevant discipline area, such as Neuroscience, Medical Imaging or Neuropsychology.
2. Experience in programming with Python, C++ and/or Matlab to customise important aspects of processing pipelines.
3. Minimum of 12 months experience processing biomedical imaging datasets for populations with neural injury and neurotypical controls.
4. Ability to undertake both structural and diffusion processing of medical imaging data to extract volumetrics, tract analysis and measures to score lesion severity.
5. An understanding of the clinical utility of PET imaging and basic analysis.
6. Ability to correlate neural pathology with clinical assessments.
7. High level written and oral communication skills with the ability to represent the research team effectively internally and externally, including the presentation of research outcomes at national and international conferences.
8. A sound history of publication in peer reviewed journals and/or authorship of scientific papers, reports, grant applications or patents.
9. A record of science innovation and creativity, including the ability & willingness to incorporate novel ideas and approaches into scientific investigations.

## **Desirable:**

1. Experience with analysing task and resting state fMRI or willingness to learn.
2. Demonstrable knowledge of neuro-anatomy.
3. Ability to secure funding from grant sources.
4. Experience with drafting ethics applications and developing study protocols.
5. Remain productive, positive and resilient in complex, ambiguous and/or uncertain environments.
6. **The ability to work effectively as part of a multi-disciplinary, potentially regionally dispersed research team, plus the motivation and discipline to carry out autonomous research.**

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance requirements.

* The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

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• Further Together

• Making it Real

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