# Postdoctoral Fellowship – CSOF4

Role summary for potential applicants

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| Advertised Job Title**:** | CSIRO Postdoctoral Fellowship in Biostatistics to Model Alzheimer’s Disease |
| Reference Number**:** | 58721 |
| Classification**:** | CSOF4 |
| Salary Range: | AU $82k to AU $93k plus up to 15.4% superannuation |
| Location**:** | Melbourne (VIC) |
| Tenure: | Specified Term of up to 3 years (or part time equivalent) |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | [ ]  Australian Citizens Only[ ]  Australian/New Zealand Citizens and Australian Permanent Residents Only* [x]  All Candidates
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| Functional Area**:** | Research Scientist / Engineer - Postdoc |
| % Client Focus - Internal: | 50% |
| % Client Focus - External: | 50% |
| Reports to the: | Team Leader |
| Number of Direct Reports: | 0 |

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| **Role Overview:** |
| **Postdoctoral Fellowships** at CSIRO provide opportunities to scientists and engineers who have completed their doctorate and have less than three years relevant postdoctoral work experience. These fellowships will help launch their careers, provide experience that will enhance their career prospects, and facilitate the recruitment and development of potential leaders for CSIRO/the field. Postdoctoral Fellows **are appointed for up to three years or part time equivalent** and will work closely with a leading Research Scientist or Engineer in their respective field. They carry out innovative, impactful research of strategic importance to CSIRO with the possibility of novel and important scientific outcomes. They present the findings in appropriate publications and at conferences.This is an incredible opportunity for a data enthusiast to join our dynamic and effective team. As part of this Postdoctoral Fellowship you will be in the enviable position of working with internationally renowned experts as part of an interdisciplinary team to enhance understanding of neurodegenerative diseases. Knowing what happens and in what order is crucial to understand disease staging and, thus, the best choice of treatment. Currently there is no accurate “map” for Alzheimer’s disease. You will work with some of the richest data obtained in observational studies of Alzheimer’s disease from around the world, to determine which disease markers change, how fast and in which order. |

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| **Duties and Key Result Areas:** |
| * Under the direction of senior research scientists, carry out innovative, impactful research of strategic importance to CSIRO that will, where possible, lead to novel and important scientific outcomes.
* Develop innovative concepts, theories, tools, and techniques related to the analysis and integration of clinical, imaging, and other medical data.
* Assist with the identification and resolution of any problems in methodology, results, etc. to ensure the highest quality of our outputs.
* Undertake regular reviews of relevant literature and patents.
* Produce high quality scientific and/or clinical papers suitable for publication in quality journals, for client reports and granting of patents.
* Prepare appropriate conference papers and present those at conferences as agreed with your supervisor.
* Contribute to the development of innovative concepts and ideas for further research.
* Make a contribution to the effective functioning of the research team and help deliver CSIRO’s organisational objectives and plans.
* Work collaboratively with colleagues within your team, the business unit, across CSIRO as well as with eminent national and international collaborators.
* 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.
* Undertake an appropriate training and development program developed by CSIRO.
* Other duties as directed.

**CSIRO’s postdoctoral training program**is developed between the Postdoctoral Fellow and a CSIRO scientist or engineer. The program will focus on enhancing the Fellows’ capabilities to the level expected of an independent researcher and will include on-the-job and course-based development encompassing:* Discipline-specific techniques and protocols
* Professional growth
* Project management
* Communication and influencing skills
* Working and collaborating with others

<http://www.csiro.au/en/Careers/Student-and-graduate-programs/Postdoctoral-fellowships> |

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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisites:***1. **Education/Qualifications:** A doctorate (or will shortly satisfy the requirements of a PhD) in a relevant discipline area, such as statistics, mathematics, computer science, engineering.

***Please note:*** *To be eligible for this role you must have no more than 3 years (or part time equivalent) of relevant postdoctoral experience.*1. **Communication**: High level written and oral communication skills with the ability to represent the research team effectively internally and externally, including at national and international conferences.
2. **Publications**: A record of publications in quality, peer reviewed journals.
3. **Behaviours**: A history of professional and respectful behaviours and attitudes in a collaborative environment.

***Essential* *Criteria*:**1. Proven impact from longitudinal data analysis and linkage between multimodal datasets.
2. Demonstrated experience with ‘Big Data’ approaches, deep learning and/or AI.
3. Good programming skills (e.g. R, MATLAB, C/C++, Python).
4. Demonstrated experience with GPU/Parallel Computing and optimisation of analytical workflows.
5. Evidence of applying problem solving skills and novel thinking to solve atypical problems.
6. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, plus the motivation and discipline to carry out autonomous research.
7. A record of science innovation and creativity, plus the ability & willingness to incorporate novel ideas and approaches into scientific investigations.

***Desirable Criteria:***1. Experience working with clinical or medical data.
2. Experience developing novel algorithms.

**As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to**:* Excellent science
* Inclusion, trust & respect
* Health, safety & environment
* Delivery on commitments.

**In your application and at interview you will need to demonstrate alignment with these behaviours.**To be appointed as a Postdoctoral Fellow within CSIRO, candidates are required to have **submitted** their PhD at the time of commencement, as a minimum requirement, if PhD conferment has not been obtained. If a candidate has submitted, but their PhD has not yet been formally attained, the starting salary will be CSOF4-1 (AU$82,450).Upon CSIRO receiving written confirmation that the PhD has been awarded (within a six month period from commencement date), the salary will be increased to the negotiated level and the difference will be back-paid to the Officer’s start date.***Special requirements:***Appointment to this role may be subject to conditions including security/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents may be required to undergo additional security clearance processes; which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test).- <http://www.ielts.org/default.aspx> |

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| **Other Information:** |
| **How to Apply**Please apply for this position online at <https://jobs.csiro.au/> and enter requisition number **58721**. Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’) Please load your CV (Maximum 2MB). You may also be required to respond to some screening questions.  If you experience difficulties applying online call 1300 984 220 for assistance. Outside Australian business hours please email: csiro-careers@csiro.au. **Referees**: Please provide contact details of two previous supervisor or academic/professional referees in your resume/CV. We will ask your permission before making contact. **Contact:** If after reading the position details above you require more information please contact: **Dr Samantha Burnham**via email: samantha.burnham@csiro.au or phone: +61 3 9662 7162Please do not email your application directly to Dr Burnham. Applications received via this method may not be considered by the selection panel.**About CSIRO**Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation. Find out more! [www.csiro.au](http://www.csiro.au). We work flexibly at CSIRO, offering a range of options for how, when and where you work. Talk to us about how this role could be flexible for you. Find out more! [CSIRO Balance](https://www.csiro.au/en/careers/the-csiro-experience/balance) **CSIRO Health & Biosecurity** CSIRO Health and Biosecurity protects Australia from biosecurity problems and risks posed by serious pests and diseases, including those already in Australia and many that have the potential to cross our borders to impact the health of our farming sector, environment and people. Find out more! <https://www.csiro.au/en/Research/BF> |