Position Details

Role summary for potential applicants

Advertised Job Title:	Postdoctoral Fellow - Statistics
Reference Number:	ACT12/03881
Classification:	CSOF4
Salary Range:	$78K - $85K plus up to 15.4% superannuation
Location:	Acton, ACT
Tenure:	3 years
Relocation Assistance:	☒ May be provided to the successful candidate **or** ☐ Not provided
Residency Status:	☐ Australian Citizens Only ☐ Australian Citizens and Permanent Residents Only ☒ All Candidates

Role Overview:

In this Postdoctoral Fellow role, you will develop and use statistical methodology to solve problems and meet the analytical needs of the health, government and/or commercial service domains. You will collaborate with applied statisticians, scientists and clients developing innovative solutions to real-world problems as well as publish papers in peer reviewed journals and conferences.

In this position, you will have the opportunity to enhance your research capability and build your academic profile through publication in the academic literature, as well as presenting your work at national and international conferences. CSIRO will provide a structured training program covering the further development of discipline knowledge and research skills, as well as research planning, research management and research communication skills.

This exciting position provides the opportunity for you to:
- Join a virtual team of applied statisticians working to address challenging problems in the services industry, including health and human services delivery
- Develop new statistical methodologies to deliver innovative solutions for the analysis of the large, complex datasets arising in government and commercial services
- Develop innovative approaches to tackle such problems as protecting confidentiality during statistical analysis of administrative data, and in particular addressing the challenge of protecting confidentiality in the context of 'big data'
- Enhance your research capability and skills in order to be better able to pursue a career in science, either within CSIRO or beyond

Duties and Key Result Areas:

- Collaboratively propose and develop approaches to enable statistical analysis of administrative health data while protecting confidentiality.
- Develop innovative concepts, theories, tools and techniques for analysis of administrative or transactional data, based on methods such as multivariate statistics, spatio-temporal and hierarchical Bayesian modelling.
- Publish research findings through scientific reports, research proposals and scientific papers, helping ensure high standards of research products and improve uptake of research outcomes within industry and government.
- Actively engage in state, national and international conferences as well as deliver seminars or workshops within CSIRO and externally.
- Assist to build CSIRO's research reputation for integrated and multi-disciplinary science related to services through networking activities and advisory roles/tasks.
- Contribute to the effective functioning of a research team to help deliver upon CSIRO's organisational objectives.
- Participate in CSIRO's structured Postdoctoral Fellow training program.

Selection Criteria:
Please note: Under CSIRO policy only applicants who meet all the essential criteria can be appointed

Prerequisite Criteria:

1. PhD in statistics

The successful appointee must have completed, or will shortly complete, the requirements for a PhD degree in a relevant scientific discipline. Owing to terms of the fellowship, candidates must not have more than 3 years of relevant Postdoctoral experience.

Essential Criteria:

2. Demonstrated knowledge of statistics and a track record in statistical analysis of applied data sets to solve complex problems.

3. Evidence of well-developed written and oral communication skills, with the ability to communicate difficult statistical concepts to non-quantitatively trained stakeholders.

4. Evidence of well-developed interpersonal skills, including the ability to engage with a range of people from various scientific backgrounds.

5. A strong CV for a recent PhD graduate, featuring journal and conference publications and /or patents, and originality.

6. Demonstrated ability to achieve results through (a) cooperation with others, (b) collaboration with other teams to achieve shared goals, (c) working independently under minimal supervision, and (d) meeting performance deadlines over the course of a project.

Desirable Criteria:

7. Experience or interest in analysis of large data sets of administrative or transactional data

8. Experience or interest in balancing analysis of data with confidentiality

CSIRO is a values based organisation. In your application and at interview you will need to demonstrate behaviours aligned to our values of:

- Integrity of Excellent Science
- Trust & Respect
- Creative Spirit
- Delivering on Commitments
- Health, Safety & Sustainability

Other Information:

How to Apply:
Please apply for this position online at www.csiro.au/careers. You may be asked to provide additional information (online) relevant to the selection criteria. If so, then responding will enhance your application so please take the time to provide relevant succinct answers. Applicants who do not provide the information when requested may not be considered.

If you experience difficulties applying online call 1300 301 509 and someone will be able to assist you. Outside business hours please email: csiro-careers@csiro.au

IMPORTANT: Please upload your resume/curriculum vitae and other documents in MS Word only so they can be converted to PDF before being sent to the Selection Panel. Please note only two documents can be attached to your application.

Referees:
If you do not already have the names and contact details of two previous supervisors or academic / professional referees included in your resume/CV please add these before uploading your CV.

Contact:
If after reading the selection documentation you require further information please contact Christine O'Keefe by email at Christine.O'Keefe@csiro.au or by phone at +61 2 6216 7021

Please do not email your application directly to Dr O'Keefe. Applications received via this method will not be considered.

About CSIRO:
Australia is founding its future on science and innovation. Its national science agency, 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.

About CSIRO Mathematics, Informatics and Statistics (CMIS):
CMIS creates and uses innovative mathematical sciences to tackle Australia's big challenges like climate change, biosecurity, water security, energy for the future and many more. It provides expertise in statistics, mathematics, informatics and computational science to collaborators and customers in a range of areas including industrial processing, healthcare, biotechnology, environmental monitoring and Government and commercial services. One of 13 CSIRO divisions, CMIS has over 190 staff working across 7 cities.