# Research Scientist/Engineer – CSOF6

Role summary for potential applicants

|  |  |
| --- | --- |
| Advertised Job Title**:** | Senior Research Scientist in Health Data Analytics |
| Reference Number**:** | 57424 |
| Classification**:** | CSOF6 |
| Salary Range: | AU $111K to AU$130K plus up to 15.4% superannuation |
| Location**:** | Perth, Western Australia |
| Tenure: | Indefinite/Ongoing |
| Relocation assistance**:** | Will be provided to the successful candidate if required |
| Applications are open to: | Australian/New Zealand citizens and Australian Permanent Residents only |
| Functional Area**:** | Research Scientist / Engineer |
| % Client Focus - Internal: | 60% |
| % Client Focus - External: | 40% |
| Reports to: | Rajiv Jayasena, Victorian Lead eHealth Research Program |
| Number of Direct Reports: | 0 |

|  |
| --- |
| **Role Overview:** |
| The role of Research Scientist Staff in CSIRO is to conduct innovative research leading to scientific achievements that are aligned with AEHRC Health Analytics Research strategies. You may be engaged in scientific activity ranging from fundamental research, the investigation of specific industry issues or solving community problems. You will have the opportunity to build and maintain networks, play a lead role in securing project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts aligned with CSIRO’s objectives. You will be involved in leading research projects or undertaking research work that improves scientific or technical knowledge. This position represents an exciting opportunity for a highly motivated scientist to join the Health Data Analytics research team in Perth. This multidisciplinary team conducts statistical research in areas of the health system such as hospital efficiencies, treatment effectiveness, risk prediction, workforce planning and implementation evaluations of new care models. The scientific problems that arise are varied and challenging, requiring strong mathematical, statistical and system evaluation skills to develop innovative solutions in collaboration with scientists, clinicians and other health professionals. The appointee will work on a wide variety of projects with the CSIRO's national Health Data Analytics team. The role includes working with a number of our collaboration partners, including undertaking potential part time secondments and mentoring programs. The position provides an exciting career path for an applicant who is keen to be part of a growing team contributing towards significant research goals and has significant impact on national and international health policy and implementation science.  |

|  |
| --- |
| **Duties and Key Result Areas:** |
| * Incorporate innovative approaches to scientific investigations by adapting and/or developing original concepts and ideas for new, existing and further research.
* Health data analytics and modelling to support evidence-based healthcare, and improved productivity, safety and quality.
* Develop quantitative methodology and/or adapt existing methods in novel and creative ways to meet the group’s research objectives.
* Utilise various analytic and statistical methodologies to evaluate, and interpret data.
* Perform /lead quantitative and qualitative analyses.
* Planning complex studies involving intensive investigations into one or more study areas.
* Recording study results and interpreting the findings in terms of their scientific significance.
* Developing and undertaking implementation research and evaluation frameworks for assessing new models of care.
* Health service performance advice
* Health system evaluation and health economics analysis.
* Communicate effectively and respectfully in the interests of good business practice, build appropriate collaborations and enhance of CSIRO’s reputation by applying good scientific practice.
* Produce high quality scientific and/or engineering papers suitable for publication in quality journals and for presentation at national and international conferences.
* Work effectively as an integral member or leader of a multi-disciplinary, geographically dispersed research team, to undertake independent scientific investigations and carry out/delegate associated tasks under broad guidance from more senior Research Scientists/Engineers.
* Work collaboratively and honestly with internal and external colleagues, clients and partners to develop and progress challenging but realistic research plans for a range of research projects.
* Lead research projects or assist with elements of larger projects including the negotiation of resource requirements.
* Lead, coach and supervise staff to ensure experiments are established in accordance with sound research design, within agreed time frames and budget.
* Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Take on other duties as directed by your line manager.
 |

|  |
| --- |
| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisites:***1. **Education/Qualifications:** A doctorate in a relevant discipline area, such as statistics, applied mathematics, operations research, engineering, machine learning, data science, implementation research or health economics.
2. **Communication: Track record of developing and maintaining external research collaborations and attracting funding. Excellent written and oral communication skills, evidenced by high-level reporting, presentation and negotiation abilities, and the capacity to identify and influence critical stakeholders to gain support for contentious proposals/ideas.**
3. **Publications: A significant record of quality publications as first author in high impact, peer reviewed journals.**
4. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment.

***Essential Criteria:***1. A strong track record in solving real world scientific problems, conducting trials and evaluations of interventions.
2. Ability to develop new methods to solve applied statistical/health data analytics/health system evaluation problems.
3. Proficiency with analytical packages, preferably R, including the ability to programme new analyses, clean and structure data, and develop and validate appropriate models
4. **The ability to work effectively as a member or leader of a multi-disciplinary, geographically dispersed research team, and carry out independent individual research, to achieve organisational goals.**
5. A significant record of science innovation and creativity plus the ability to apply well developed research skills to scientific investigations.
6. Experience in developing successfully funded research proposals.

**Desirable Criteria:**1. Previous experience working in the health domain, especially with clinical data.
2. Experience in implementation science and health economics

**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.** |

|  |
| --- |
| **Other Information:** |
| **How to Apply**Please apply for this position online at <https://jobs.csiro.au/> and enter requisition number **57424**. 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 Rajiv Jayasenavia email: Rajiv.jaysena@csiro.au phone: 03 9662 7383Please do not email your application directly to Dr Jayasena. Applications received via this method will not be considered.**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 and 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> |