# Research Scientist/Engineer – CSOF5

Role summary for potential applicants

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| Advertised Job Title**:** | Research Scientist - Applied Statistics/Biometrics |
| Reference Number**:** | 39670 |
| Classification**:** | CSOF5 |
| Salary Range: | $92,591 to $100,199 p.a. plus up to 15.4% superannuation |
| Location**:** | Canberra, ACT |
| Tenure: | Specified term of 3 years |
| Relocation assistance**:** | * Will be provided to the successful candidate if required. |
| Applications are open to: | Australian Citizens Only  Australian Citizens and Permanent Residents Only   * All Candidates |
| Functional Area**:** | * Research Scientist / Engineer |
| % Client Focus - Internal: | * 20% |
| % Client Focus - External: | * 80% |
| Number of Direct Reports: | * 0 |
| Reports to the: | * Statistical Genetics and Genomics Team Leader |

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| **Role Overview:** |
| The role of Research Scientist Staff in CSIRO is to conduct innovative research leading to scientific achievements that are aligned with CSIRO's strategies. You may be engaged in scientific activity ranging from fundamental research to the investigation of specific industry or 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.  Data61 is the largest data innovation group in Australia, bringing together CSIRO’s Digital Productivity team and National ICT Australia (NICTA). We are unrivalled in our intellectual capital and our network with the global technology marketplace. The combined group bring together approximately 600 research staff working in digital technologies to create benefit for Australia. Data61 will continue to develop Australia’s future leaders with its strong 300+ PhD student program in collaboration with our best universities across Australia.  This role will involve collaboration with leading capability in Data61 and with CSIRO Agriculture and Food to innovate, develop and apply statistical and computational methods for the design and analysis of agricultural experimental and genomics data to increase genetic gains and our understanding of the biological control of key traits in a range of species. This will be done within national and international settings, and as part of diverse multidisciplinary teams. |

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| **Duties and Key Result Areas:** |
| * Incorporate novel approaches to scientific investigations by adapting and/or developing original concepts and ideas for new, existing and further research. * Lead, and contribute to, the understanding and development of innovative concepts, approaches and methods for the analysis of experimental data from a range of agricultural and genomics sources. * Undertake experimental design, data analyses, and interpret results for clients as required. * Communicate effectively and respectfully in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation. * 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 part of a multi-disciplinary, often regionally dispersed research team, to undertake independent scientific investigations and carry out associated tasks under the guidance of more senior Research Scientists/Engineers. * Under the guidance of Senior Research Scientists/ Engineers, work collaboratively and honestly with internal and external colleagues, clients and partners to help define and satisfy objectives for small to medium research projects. * Assist in leading small research projects, including the negotiation of resource requirements. * Provide coaching and on-the-job training to technical staff and students to ensure experiments are established in accordance with research design. * 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. |

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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 and or equivalent research experience in statistics. 2. **Communication:** Strong written and oral communication skills including the ability to publish research results, prepare reports and present the results of scientific investigations at national and international conferences and stakeholder meetings. 3. **Publications: A solid record of publication in quality, peer reviewed journals.** 4. **Behaviours: A history of professional and respectful behaviours and attitudes in a collaborative environment.**   ***Essential Criteria:***   1. Demonstrated experience in statistical analysis, statistical modelling and in particular the use of linear mixed models. 2. Experience in, or the ability to undertake, the design and analysis of experiments. 3. Strong programming experience in R or Python, or a demonstrated ability to learn computer languages easily. 4. **The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, and carry out independent individual research, to achieve organisational goals.** 5. A record of science innovation and creativity plus the ability & willingness to incorporate novel ideas and approaches into scientific investigations.   **Desirable Criteria:**   1. Experience in the design, analysis and interpretation of high-dimensional real data, ideally next generation sequencing data. 2. Experience in the development of novel methods for the analysis experimental data. 3. Experience or an interest in genomic prediction/selection.   **CSIRO is a values based organisation. 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   Data61 is a values based organisation. Our leaders will be expected to demonstrate the following values:  **Hierarchy**: Country, Company, Team, Individual  **Openness**: Open debate, collaboration, full commitment  **Learning**: Calculated risks, institutionalise learning, fast cadence  **Impact**: Tackle hard problems, create the future, focus on outcomes  **Stewardship**: Lead, make each function and co. stronger over time  ***Other 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*](http://www.ielts.org/default.aspx) |

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| **Other Information:** |
| **How to Apply**  Please apply for this position online at [www.csiro.au/careers](http://www.csiro.au/careers). You will need to upload your cover letter and resume/CV as one document, expressing your interest in the role and broadly addressing your suitability. Please provide sufficient relevant information to enable the selection panel to assess your suitability. Should your application proceeds to the next step, you may be asked to provide additional information.  If you experience difficulties applying online call 1300 984 220 and someone will be able to assist you. Outside business hours please email: [careers.online@csiro.au](mailto:careers.online@csiro.au)  **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:  Dr Klara Verbylavia email: [Klara.Verbyla@csiro.au](mailto:Klara.Verbyla@csiro.au) or phone: +61 2 6216 7256  Please do not email your application directly to Dr Verbyla. 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).  **Data61** is the largest data innovation group in Australia. Bringing together our Digital Productivity team and National ICT Australia (NICTA), we are unrivalled in our intellectual capital and our network with the global technology marketplace.  Find out more! <http://www.csiro.au/en/Research/D61> |