# Research Scientist/Engineer – CSOF6

Role summary for potential applicants

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| Advertised Job Title**:** | Research Scientist in Cereal Rust Resistance |
| Reference Number**:** | 57393 |
| Classification**:** | CSOF6 |
| Salary Range: | AU $109k to AU $128k plus up to 15.4% superannuation |
| Location**:** | Black Mountain, Canberra, ACT |
| Tenure: | Indefinite/Ongoing |
| 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   * All Candidates |
| Functional Area**:** | Research Scientist / Engineer |
| % Client Focus - Internal: | 50% |
| % Client Focus - External: | 50% |
| Reports to the: | Group Leader Mick Ayliffe |
| Number of Direct Reports: | 0 |

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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. You may be involved in leading research projects or undertaking work that has impact on the development of scientific or technical knowledge.  The CSIRO Agriculture and Food Rust Resistance group has established a world-leading position in both basic research into cereal rust disease biology and in translating this to high industry impact through its development and release of a suite of molecular markers to the Australian and global wheat breeding industry. A dynamic early to mid-career research scientist is required to maintain the momentum of this world leading research team and to explore opportunities to establish new research directions. It is envisaged that this person will combine extensive experience in cereal rust diseases with broader expertise in other fungal diseases, and have a proven ability to engage with industry, attract external research funding and build collaborations across different disciplines. The applicant would be expected to develop a vigorous research program working collaboratively within the cereal rust disease area and to explore and capture new research opportunities that leverage the group’s expertise to expand into other significant crop diseases. |

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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. * Undertake research on cereal rust diseases and develop durable resistance approaches. * Genetic improvement of cereals for improved rust disease resistance that has substantial industry impact. * Explore new research opportunities to apply research expertise to other significant crop diseases. * 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 an integral member or leader of a multi-disciplinary, often regionally 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 small research projects and 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 research design, within agreed timelines 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. * 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 or equivalent research experience in a relevant discipline area, such as molecular plant pathology. 2. **Communication: 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 primary author and/or corresponding author in peer reviewed journals of high standing in the field.** 4. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment.   ***Essential Criteria:***   1. Extensive research experience in molecular biology and genomics of cereal rusts and other fungal diseases focusing on both the host and pathogen. 2. A strong record of scientific achievement and innovation with evidence of an industry focus. 3. Demonstrated experience in successfully leading research teams and mentoring and developing young scientists. 4. Demonstrated experience in engaging with corporate and industry representative partners to develop research projects relevant to commercial needs. 5. Record of successfully developing and launching novel research programs and attracting external funding to support their execution. 6. Demonstrated capacity to build collaborative networks to enhance delivery of research outcomes. 7. **The ability to work effectively as a member or leader of a multi-disciplinary, regionally dispersed research team, and carry out independent individual research, to achieve organisational goals.** 8. A significant record of science innovation and creativity plus the ability to apply well developed research skills to scientific investigations and evidence of national and international recognition.   **Desirable Criteria:**   1. Previous experience in plant and/or fungal genomics using the latest sequencing technologies. 2. Experience with wheat genomic and germplasm resources.   **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.**  ***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 **57393**. 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](mailto: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 Mick Ayliffe** via email: Michael.ayliffe@csiro.au or phone: **61 2 6246 5221**  Please do not email your application directly to Dr Ayliffe. 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/A-great-place-to-work/Work-life-balance)  **CSIRO Agriculture and Food** carries out research and development for new agricultural technologies, value added foods, crop and livestock improvement, aquaculture, farming systems, sustainability and advancement of international agriculture. |