# Position Details

## Research Projects- CSOF3

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| The following information is for applicants |
| Advertised Job Title | Research Officer: Plant growth & image analysis |
| Job Reference | 66964 |
| Tenure | IndefiniteFull-time |
| Salary Range | AU$63,594 to AU$80,937 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Floreat, WA |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Position reports to the | Team Leader |
| Client Focus – Internal | 0% |
| Client Focus – External | 100% |
| Number of Direct Reports | 0 |
| Enquire about this job | Jens Berger via email at Jens.Berger@csiro.au or phone +61 8 9333 6623 |
| How to apply | Apply online at <https://jobs.csiro.au/> Internal applicants please apply via **Jobs Central**If you experience difficulties when applying, please email careers.online@csiro.au or call 1300 984 220. |

### Role Overview

Research Projects staff in CSIRO collaborates in scientific and technological activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental, observational or technology development work, and in carrying out the more practical aspects of the work.

The systems program at Floreat has an ongoing need for a versatile technician capable of running experiments, analysing results and engaging with the changing big data world of digital agriculture. Our activities range from the micro to the macro. Experiments are conducted from controlled environments, glasshouses to the field, and may be based on single plant replications up to large scale paddock comparisons. As a result, our experimental data varies from traditional plot or pot observations and manual recording up to image analysis on the leaf, plant or plot scale. To implement these types of experiments CSIRO are looking for an experienced team player with skills in data analysis (statistics, big data, coding, databases etc) to work with the Crop Adaptation team focusing on legumes, and have the versatility to be deployed more broadly across the BU, including NIRS in pastures, Pasture API, Crop Simulation and Crop Remote Sensing, Big Data analytics and Data workflows.

As part of a team of scientists and experienced technical staff, you will assist in the implementation of experiments investigating adaptation to cold in wild relatives and/or hybrids of chickpea. This will entail a mixture of glasshouse, growth cabinet and local field work, but also larger field experiments throughout the wheatbelt of Western Australia, requiring some overnight travel during the growing season. Observations will include plant phenology, growth rates as determined by image analysis, yield and yield components among others.

You will also assist in the introgression of chilling tolerance from wild to domestic chickpea on a 2 yearly cycle crossing 4 tolerant wild Cicer accessions with an elite chickpea line, delivering 200 F6 lines per cross in 2022 & 24.

### Duties and Key Result Areas:

* Adapt and/or develop original experimental methods/equipment/software/concepts/ ideas in support of existing and further research.
* Interact with the Crop Adaptation team at large, taking a collegiate interest in the wider research activities, contributing to the discussion and group dynamic.
* Complete tasks under technical direction, working with discretion to decide on the timing of operations within the work team’s plan and planning ahead to meet experiment and/or project demands.
* Oversee the activities of less experienced staff and provide guidance on experimental/ technological techniques and protocols.
* Work collaboratively as part of a multi-disciplinary, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **Required Competencies:**

* **Teamwork and Collaboration:** Proactively seeks and considers the ideas and opinions of others from within and outside the team to help form decisions, plans or actions.
* **Influence and Communication:** Puts forward ideas by presenting factual information supported by data, definitions, examples, illustrations or other aids, which will assist in conveying meaning.
* **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
* **Judgement and Problem Solving:** Identifies and considers the implications of a range of available alternatives in order to select the most appropriate response to problems of a familiar or recurring nature.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Willingness to change ideas or perceptions based on new information, contrary evidence or other people's points of view. Prepared to try out different approaches.

## **Selection Criteria**

#### Essential

*Under CSIRO policy only those who meet all essential criteria can be appointed.*

1. Bachelor’s degree in Agriculture, Biology or other relevant discipline.
2. Current Australian C Class driver’s licence.
3. Experienced technician with a track record in running plant trials in controlled environments, glasshouses and field, including the use of databases, image analysis and other analytical techniques.
4. Experience with at least one modern statistical data analytics platform such as R, Python or Matlab.
5. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, and carry out tasks autonomously in support of scientific research.

## **Desirable:**

1. Experience in crossing plants

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance requirements.

* The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

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