# Position Description

## Research Projects – CSOF3

The following information is for applicants

|  |  |
| --- | --- |
| Advertised Job Title**:** | Research Projects Officer -Mechatronics Engineer |
| Job Reference: | 61398 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Percentage of Client Focus - Internal: | 30% |
| Percentage of Client Focus - External: | 70% |
| Reports to the: | Assistant Directors, High Resolution Plant Phenomics Centre |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries  | Marni Tebbutt via email: Marni.Tebbutt@csiro.au or phone: +61 02 6246 4339 |
| Contact Details For Applying | Call 1300 984 220 or email careers.online@csiro.au.  |
| How to Apply: | Please apply online at [jobs.csiro.au](https://jobs.csiro.au/) and enter the requisition number**.** Internal applicants please apply via ‘Jobs Central’ through the ‘People Hub’ icon Please do not email your application directly to Marni Tebbutt. Applications received via this method may not be considered by the selection panel. |

## 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.

Our mission is to bring Australia to forefront of digital agricultural innovation. CSIRO is pioneer in the development of capabilities that accelerate the translation of phenomics into industry. The Mechatronics engineer will work closely with our multiply disciplinary research team to develop the next generation of ArduCrop sensor networks and robotic phenotyping system (www.plantphenomics.org.au). We have a long established history of designing and building some of the world’s most recognised phenotyping systems and translating these into research and industry.

This role will further develop these capabilities so that they remain relevant and at the forefront of innovation. This occupant of this role will work on some of the most innovative projects at Australia’s national science research agency, and towards other endless opportunities.

## Duties and Key Result Areas:

* Design and build new sensor networks and contribute to the build of automated machine/robotic phenotyping system as part of a multidisciplinary team.
* Maintain and improve CSIRO’s existing robotic infrastructure.
* Deploy system to research locations.
* Talking to stakeholders to understand the requirements.
* Attending scrum team meetings and contributing your ideas on how to deliver the best product possible.
* Setting aside time to finish tasks within the current sprint, ensuring the project remains on track and meets the required standard.
* Sharing your progress and seeking feedback from the team.
* Prepare reports and technical specifications
* Communicate openly, effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* 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 plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## Competencies:

1. **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.**
2. **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.**
3. **Resource Management/Leadership: Provides instruction and assists other staff to complete allocated tasks and activities.**
4. **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.
5. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
6. **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:

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

* Relevant degree Electrical or Mechatronics engineering or relevant equivalent experience in the related field.
* Strong and clear communication skills, willing and able to interact with a multidisciplinary but highly specialised team. The right fit will be able to ask questions, challenge the team and then translate this into results.
* Demonstrated ability to think proactively to identify and provide solutions to problems and share this with others.
* Demonstrated ability to convey opinions, concepts, ideas and notions in a professional and respectful manner.
* Proven expertise in identifying issues within the scope of the project and offer resolution.
* Eye for detail and the ability to understand end user requirements
* A significant record of contributing positively to stimulate and promote a team approach, and develop sound working relationships.
* Ability to adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.

## Desirable Criteria:

## Interest in IOT (Internet of Things) applications, micro controllers and telecommunications infrastructure.

## Experience of remote/proxy sensing in plant sciences and agriculture.

## Experience of delivering exceptional services to customers and clients.

## Demonstrated motivation and discipline to carry out autonomous research.

**Special Requirements:**

Current Drivers Licence and a willingness to undertake travel to conduct research/field work with stakeholders, partners and research participants in rural and regional areas of Australia.

## About CSIRO:

We imagine. We collaborate. We innovate. To find out more visit us [online](http://www.csiro.au/)!

Find out more about CSIRO [Agriculture and Food](https://www.csiro.au/en/Research/AF)