# Position Description

## Research Projects – CSOF3

The following information is for applicants

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| Advertised Job Title**:** | Research Technician – Fruit Fly Genetics |
| Job Reference: | 61679 |
| 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 |
| Percentage of Client Focus - Internal: | 0% |
| Percentage of Client Focus - External: | 100% |
| Reports to the: | Group Leader |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries | Dr. Tom Walsh via email: tom.walsh@csiro.au  *Please do not email your application directly to Dr Walsh. Applications received via this method may not be considered by the selection* |
| Contact Details For Applying | Call 1300 984 220 or email [careers.online@csiro.au](mailto: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 |

## 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 Research Technician role forms part of a CSIRO team delivering an international project funded by Horticulture Innovation Australia to identify genes underlying sex selection traits in the Queensland fruit fly, *Bactrocera* *tryoni*. CSIRO’s role in this project will be to use CRISPR-Cas9 genome editing technology to knock out candidate genes to validate their contribution to sex selection traits of interest.

The role will be responsible for assisting with CRISPR-Cas9 experiments, maintaining several *Bactrocera* fruit fly species in culture, and establishing, maintaining and crossing lineages derived from CRISPR-Cas9 treatments.

## Duties and Key Result Areas:

* Maintain stock cultures of *Bactrocera* fruit fly species.
* Maintain independent *Bactrocera* fruit fly lineages without cross-contamination.
* Conduct single pair matings of individuals derived from *Bactrocera* lineages.
* Assist with phenotyping and genotyping of *Bactrocera* derives from single pair matings.
* Maintain accurate records in laboratory notebooks.
* Respond courteously and efficiently to client requests, maintaining clear communication regarding mutual expectations and monitoring client satisfaction.
* Undertake and 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.
* Under technical direction undertake experiments, laboratory analyses or technology development activities (some non-routine) using a range of techniques, often working on a number of parallel and competing tasks.
* Oversee the activities of less experienced staff and provide guidance on experimental/ technological techniques and protocols.
* Design new processes or apparatus by adapting existing techniques and components to meet special circumstances or undertake modifications to methods requiring some innovation.
* 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, 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.

## Essential Criteria:

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

1. A degree in biological sciences and/or relevant work experience.
2. Demonstrated experience assisting with laboratory experiments involving insects or maintaining insect cultures for experimentation.
3. Good oral and written communication skills coupled with excellent record-keeping abilities and a high level of attention to detail.
4. A willingness to follow instructions and complete tasks to prescribed timelines.
5. **A history of professional and respectful behaviours and attitudes in a collaborative environment.**

## Desirable Criteria:

1. Training or experience assisting with genetic experiments.
2. Training or experience in basic molecular biology tasks (eg. DNA extraction, PCR).

## Special Requirements:

Appointment to this role may be subject to conditions including security/national police/medical/character clearance requirements.

## About CSIRO:

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

Find out more about CSIRO [Health and Biosecurity](https://www.csiro.au/en/Research/BF)