# Position Details

## Research Projects- CSOF4

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| The following information is for applicants | |
| Advertised Job Title | Environmental DNA research technician |
| Job Reference | 92871 |
| Tenure | Approx. 2 years until 30 June 2025  Full time |
| Salary Range | AU$89,680- AU$101,459 per annum plus up to 15.4% superannuation |
| Location(s) | Canberra (Black Mountain) |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents |
| Position reports to the | Director, Australian National Wildlife Collection |
| Client Focus – Internal | 100% |
| Client Focus – External | 0% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Erin Hahn via email at [erin.hahn@csiro.au](mailto:erin.hahn@csiro.au) or phone +61 2 6242 1544 |
| 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](mailto:careers.online@csiro.au) or call 1300 984 220. |

**Acknowledgement of Country**

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our [vision towards reconciliation](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

**Child Safety**

CSIRO is committed to the safety and wellbeing of all children and young people involved in our activities and programs. View our [Child Safe Policy](https://www.csiro.au/en/about/policies/child-safe-policy).

### Role Overview

The genomics research technician will join the [Environomics Future Science Platform](https://research.csiro.au/environomics/), where they will assist with the design and conduct technically challenging research projects that will explore new methods to sample environmental DNA (eDNA), particularly from the air. It would involve working across disciplines, including collaborations with engineers, materials scientists, molecular biologists, and environmental scientists. The role would suit a candidate who is skilled, highly motivated, detail-oriented, works well in a team, and who enjoys finding creative solutions to technical challenges.

The [Environomics Future Science Platform](https://research.csiro.au/environomics/) is using genomics, nanotechnologies and data science to revolutionise environmental science and natural resource management. The Environomics FSP maintains a varied portfolio of projects that aim to gather more information, more quickly and accurately from the environment using cutting-edge genomic technologies.

### Duties and Key Result Areas

* Under general direction, contribute to research and/or technology through the development of original and adapted experimental methods.
* Participate in planning projects and accept responsibility for scheduling and completion of major parts of the project, including evaluation of options, experimental design, data collection and analysis.
* Make significant contributions to the interpretation and communication of research or technological results and may collaborate on drafting presentations to, and/or detailed written reports for, clients and the scientific and/or technology community.
* Create next generation sequencing libraries from DNA and RNA for high throughput sequencing.
* Conduct quantitative PCR experiments, including assay optimisation.
* Carry out genetic analyses using state-of-the-art software packages.
* Maintain and manage laboratory equipment and consumables required for research projects.
* Maintain a thorough and complete record of all laboratory work.
* Work collaboratively as part of a multi-disciplinary, regionally dispersed research team carrying out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Values, Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## **Selection Criteria**

#### Essential

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

1. Relevant honours degree or equivalent work experience in a molecular genetics laboratory.
2. Demonstrated experience generating RNA and/or DNA libraries for high throughput sequencing.
3. Demonstrated experience with the design and implementation of quantitative PCR experiments.
4. A record of science innovation and creativity, including the ability & willingness to incorporate novel ideas and approaches into scientific investigations.
5. Demonstrated ability to work effectively with a team across multiple projects with competing needs.
6. Strong attention to detail and the ability to undertake repetitive tasks, keep accurate records and manage data effectively, and plan and schedule workflow in a timely and technically sound manner.

## **Desirable**

1. Demonstrated experience to undertake fieldwork to collect samples for DNA/RNA extraction.
2. Experience in use of bioinformatic pipelines for the analysis of high throughput sequencing data
3. Demonstrated experience collecting and analysing environmental DNA samples.
4. Demonstrated experience using trace DNA-optimised workflows or, alternatively, experience in sterile technique with an appreciation for cross-contamination prevention.

## **Required Competencies**

* **Teamwork and Collaboration:** Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.
* **Influence and Communication:** Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others’ reactions.
* **Resource Management/Leadership:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

Special Requirements

Appointment to this role is subject to provision of a pre-employment background check and may be subject to other security/medical/character clearance requirements.

* The successful candidate will undertake a pre-employment background check. Please note that individuals with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [Environomics Future Science Platform](https://research.csiro.au/environomics/) for more information.

CSIRO is a values-based organisation.  In your application and at interview you will need to demonstrate behaviours aligned to our values of:

* People First
* Further Together
* Making it Real
* Trusted