# Position Details

## Research Projects- CSOF3

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| The following information is for applicants | |
| Advertised Job Title | Experimental Scientist – Botanical Pharmaceuticals |
| Job Reference | 91427 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$68,148 - AU$86,733 per annum (pro-rata for part-time)  plus up to 15.4% superannuation |
| Location(s) | Clayton |
| 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 – Botanical Pharmaceuticals |
| Client Focus – Internal | 10% |
| Client Focus – External | 90% |
| Number of Direct Reports | 0 |
| Enquire about this job | Dr Peter Duggan  Email: [Peter.Duggan@csiro.au](mailto:Peter.Duggan@csiro.au) |
| 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 on which we live and work 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).

### Role Overview

The role of Research Projects staff in CSIRO is to collaborate 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.

Your role as a Botanical Pharmaceuticals Experimental Scientist will be to apply chemistry knowledge to the identification, detection and rigorous quantification of organic compounds in plant material, plant-derived mixtures and other biological matrices, perform extractions of plant material and develop formulations of plant-derived bioactives.

### You will contribute to scientific projects focusing on new technologies important in the development of commercial botanical products including, but not limited to those containing phytocannabinoids, psychedelics and other psychoactive substances.

You will assist in compliance activities associated with the operation of a secure facility licenced to handle restricted substances.

### Duties and Key Result Areas

* Under limited supervision, qualitatively and quantitatively analyse plant material, plant-derived mixtures and other biological materials using chromatographic techniques, such as HPLC, GC, LCMS and GCMS.
* Under limited supervision, formulate botanical mixtures and isolated phytochemicals into various drug formats.
* Accurately record experimental procedures and data in electronic laboratory notebooks in a timely fashion.
* 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.
* Enthusiastically follow existing CSIRO Standard Operating Procedures (SOPs) relating to the handling of Schedule 4 and Schedule 9 poisons, contribute to their revision and the drafting of new SOPs.
* Contribute to the smooth operation of a secure facility in which Schedule 4 and Schedule 9 poisons are stored and used in experiments. Undertake general laboratory maintenance and duties as required.
* Communicate research results through electronic laboratory notebooks, written reports and oral presentations.
* Oversee the activities of less experienced staff and provide guidance on experimental/ technological techniques and protocols.
* Adapt and/or develop creative experimental methods in support of existing and future research.
* Respond promptly and courteously to client requests, maintaining clear communication regarding mutual expectations and monitoring client satisfaction.
* 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 multi-disciplinary, sometimes regionally dispersed research teams, both within the Manufacturing business unit and other CSIRO business units 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.

## **Selection Criteria**

#### Essential

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

1. A Bachelor’s degree in Science or equivalent, majoring in natural products chemistry, formulation science or related discipline.
2. Demonstrated ability in the techniques of analytical chemistry and a sound theoretical knowledge of analytical chemistry.
3. Demonstrated practical experience in chromatographic analytical techniques, such as HPLC, GC, LCMS and GCMS.
4. Demonstrated skills in accurate and thorough record keeping.
5. The ability to work effectively as part of a multi-disciplinary research team, and to carry out tasks under general direction from scientific researchers.
6. Proven ability to investigate routine problems by identifying and considering the implications of a range of available alternative solutions.

## **Desirable**

1. Experience in an analytical chemistry or quality control laboratory within industry or a research institute.
2. Experience with the extraction of bioactives from plant material and the refinement of plant extracts.
3. Experience in the formulation of bioactives into various drug formats.
4. Experience in regulated workplaces where strict compliance with laboratory protocols and regulations is required.
5. Experience in the isolation, characterisation and identification of natural products, including the use of NMR and MS techniques.

## **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.

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.

* To be eligible for this position you must be willing and able to work in a laboratory environment dealing with a range of chemicals and equipment and satisfy the requirements of the “fit-and-proper-person test” as defined by the Federal Department of Health. See: <https://www.odc.gov.au/publications/guideline-fit-and-proper-persons-and-suitable-staff>

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and <https://www.csiro.au/en/work-with-us/industries/manufacturing> for more information.

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

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