# Position Description

## Research Projects – CSOF3

The following information is for applicants

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| Advertised Job Title**:** | Synthetic Organic/Medicinal Chemist |
| Job Reference: | 58974 |
| 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: | 20% |
| Percentage of Client Focus - External: | 80% |
| Reports to the: | Team Leader – Bioconjugation Chemistry |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries | Dr Mark York, Mark.York@csiro.au |
| 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 Synthetic Organic/Medicinal Chemist will apply organic chemistry knowledge towards the solution of problems relating to the isolation, identification, synthesis and purification of organic compounds.

The role will involve contribution to medicinal chemistry projects focussed on developing new treatments for tropical diseases.

## Duties and Key Result Areas:

* Plan, propose and perform chemical reactions.
* Monitor chemical reactions using chromatographic techniques, such as TLC, GC, HPLC and LCMS.
* Prepare and purify compounds using chromatographic techniques such as column chromatography and HPLC.
* Use NMR, mass spectroscopy and other relevant techniques to elucidate the structure of organic compounds.
* Accurately maintain and record experimental procedures and data in laboratory notebooks in a timely fashion.
* Communicate research results through laboratory notebooks, written reports and oral presentations.
* Undertake general laboratory maintenance and duties as required.
* Provide instruction on activities pertaining to the immediate work area and responsibilities, as required.
* Adapt and/or develop original experimental methods in support of existing and further research.
* Respond courteously and efficiently 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 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.*

1. A Bachelor of Science, preferably with Honours, in organic chemistry or equivalent.
2. Demonstrated ability in the techniques of synthetic organic chemistry and a sound theoretical knowledge of organic chemistry.
3. Experience in chromatographic separation techniques, such as GC, HPLC and column chromatography, and recrystallisation techniques.
4. Experience in the use and interpretation of NMR and mass spectroscopy to elucidate the structure of organic compounds.
5. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, and 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 Criteria:

1. Considerable experience (~2+ years) in an organic synthesis laboratory within industry.
2. Knowledge of high throughput approaches to synthesis and purification.

## Special 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.

## About CSIRO:

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Find out more about CSIRO [Manufacturing](https://www.csiro.au/en/Research/MF)