# Research Projects – CSOF3

Role summary for potential applicants

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| Advertised Job Title**:** | Synthetic Organic/Medicinal Chemist |
| Reference Number**:** | 57345 |
| Classification**:** | CSOF3 |
| Salary Range: | AU $61K to AU $78K per annum, plus up to 15.4% superannuation |
| Location**:** | Clayton (Melbourne) Victoria |
| Tenure: | 12 month term (with possible extension) |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | Australian Citizens Only  Australian Citizens and Permanent Residents Only   * All Candidates |
| Functional Area**:** | Research Projects |
| % Client Focus - Internal: | 0% |
| % Client Focus - External: | 100% |
| Reports to the: | Team leader – Organic Process Chemistry |
| Number of Direct Reports: | 0 |

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| **Role Overview:** |
| The role of Research Projects staff in CSIRO is to collaborate in scientific activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental and observational 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. In general this will be via the use of high throughput synthesis and purification techniques as well as more traditional technologies.  The role will involve a contribution to a chemistry project involving one of the following:   1. Medicinal chemistry towards novel drugs. 2. Manufacture of bioactive small molecules including using high throughput techniques including continuous flow processing. |

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| **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 techniques which may include recrystallization, chromatography and distillation. * Use NMR, IR and mass spectroscopy to elucidate the structure of organic compounds. * Communicate research results through laboratory notebooks, written reports and oral presentations. * Undertake general laboratory maintenance. * Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation. * Work as part of a multi-disciplinary, often regionally dispersed research team, to carry out tasks under limited direction in support of scientific research. * Work collaboratively with colleagues within your team, the business unit and across CSIRO, to reach objectives. * Provide instruction on activities pertaining to the immediate work area and responsibilities, as required. * Adapt and/or develop original experimental methods, equipment, concepts and ideas in support of existing and further research. * Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals. * Other duties as directed. |

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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed*  ***Pre-Requisites:***   1. **Education/Qualifications:** Bachelor of Science, preferably with Honours, in organic chemistry, or equivalent. 2. **Communication:** Ability to communicate in a fluent and courteous manner, both orally and in writing, offering factual information supported by proven data, and providing appropriate feedback when required. 3. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment. 4. **Adaptability:** The ability to effectively manage a number of competing priorities simultaneously, and carry out non-routine tasks under general direction.   ***Essential Criteria:***   1. Demonstrated ability in the techniques of synthetic organic chemistry and a sound theoretical knowledge of organic chemistry. 2. Experience in chromatographic separation techniques, such as GC, HPLC, column and radial thin layer chromatography and in recrystallisation techniques. 3. Experience in the use and interpretation of NMR, IR and mass spectroscopy. 4. 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. 5. Proven ability to investigate routine problems by identifying and considering the implications of a range of available alternative solutions**.**   **Desirable Criteria:**   1. Solid experience (~2+ years) in an organic synthesis laboratory within industry. 2. Knowledge of high throughput approaches to synthesis and purification, and knowledge of continuous flow processing techniques.   **As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to**:   * Excellent science * Inclusion, trust & respect * Health, safety & environment * Delivery on commitments.   *In your application and at interview you will need to demonstrate alignment with these behaviours.*  ***Other 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. |

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| **Other Information:** |
| **How to Apply**  Please apply for this position online at <https://jobs.csiro.au/> and enter requisition number **57345**. Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’).  Please load one document containing your CV and a brief cover letter which outlines your interest in the role and your motivations for applying (Maximum 2MB). At the end of the online application process, you will also be required to respond to some screening questions. Where text responses are required, to avoid being timed out of the system we recommend that you prepare your responses offline and paste them into the appropriate spot prior to submitting your application.  If you experience difficulties applying online call 1300 984 220 for assistance. Outside Australian business hours please email: [csiro-careers@csiro.au](mailto:csiro-careers@csiro.au).  **Referees**: If you do not already have the names and contact details of two previous supervisors or academic/ professional referees included in your resume/CV please add these before uploading your CV.  **Contact:** If after reading the selection documentation you require further information please contact:  **Dr Kathleen Turner**via email: [Kathleen.Turner@csiro.au](mailto:Kathleen.Turner@csiro.au) or phone: **03 9545 2586**  Please do not email your application directly to Dr Turner. Applications received via this method will not be considered.  We work flexibly at CSIRO, offering a range of options for how, when and where you work. Talk to us about how this role could be flexible for you. Find out more! [CSIRO Balance](https://www.csiro.au/en/Careers/A-great-place-to-work/Work-life-balance)  **About CSIRO**  Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation.  Find out more! [www.csiro.au](http://www.csiro.au).  **CSIRO Manufacturing** is developing cleaner advanced materials and technologies to enable manufacturers to secure a competitive and sustainable future which contributes strongly to national productivity, economic growth and societal wellbeing.  In particular, CSIRO Manufacturing seeks to support the metals, chemicals, carbon fibre, cotton, biomedical and biotechnology industries.  At **CSIRO Biomedical Manufacturing** we work with biomedical companies to deliver new medical treatments and technologies that benefit millions of people in Australia and overseas, helping them live longer, healthier and more productive lives.  The **Biomedical Synthetic Chemistry Group** is part of the Biomedical Manufacturing Program. Working in partnership with biotechnology, biomedical and pharmaceutical companies, the group is concerned with molecular synthesis, including small molecules, polymers, biomaterials, bio-conjugates, and peptides with the intention of eliciting a biological response. Examples include medicinal chemistry, peptide chemistry, drug delivery systems, polymer-drug conjugates, biocompatible and bioactive polymers and biomaterials.  For details: <http://www.csiro.au/en/Research/MF/Areas/Biomedical> |