# Position Details

## Research Projects- CSOF3

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| The following information is for applicants | |
| Advertised Job Title | Research Projects Officer – Biomedical Devices |
| Job Reference | 80342 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$66k to AU$84k pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Clayton VIC |
| 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 |
| Client Focus – Internal | 20% |
| Client Focus – External | 80% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Helmut Thissen via email at [helmut.thissen@csiro.au](mailto:helmut.thissen@csiro.au) or phone +61 3 9545 2191 |
| 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. |

### Role Overview

Research Projects staff in CSIRO 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.

Next generation biomedical devices, ranging from biosensors to implants, continue to deliver spectacular advances in regard to life expectancy and the quality of life. Here, the key to progress is often related to the ability to control interactions at the interface between material surfaces and their biological environment effectively. Therefore, work in this field requires expertise in organic and polymer chemistry, surface modification and the evaluation of biological responses in vitro and, if required, in vivo. The team at CSIRO has an outstanding track record in the development of biomedical device technologies which is supported by state-of-the-art equipment and facilities.

As part of the Biomaterial Interface Chemistry team in the CSIRO Manufacturing Business Unit, the Research Projects Officer – Biomedical Devices role will work on a range of projects with industry and academic collaborators. The work will range from synthetic organic and polymer chemistry to surface modification and analysis as well as device manufacturing and biological testing. Moreover the position will contribute to the work of the team in the Biomedical Materials Translational Facility (BMTF), which is operating under a quality management system.

### Duties and Key Result Areas:

* Synthesis and characterisation of chemicals and polymers in the context of biomedical device applications.
* Design, manufacture and analysis of coatings on biomedical devices.
* Operation and routine maintenance of scientific equipment.
* Management of calibration schedule of key equipment.
* 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.
* Maintain accurate experimental records, draft reports and present results in written and oral communications with clients and team.
* Maintain confidentiality when working with commercially sensitive information.
* 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 Values, Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **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.

## **Selection Criteria**

#### Essential

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

1. A relevant bachelor’s degree or equivalent relevant work experience chemistry, materials science, biomedical science or related disciplines.
2. Demonstrated experience in synthetic organic and polymer chemistry and associated analytical methods.
3. Demonstrated ability to operate and maintain processing and analytical scientific equipment.
4. The ability to effectively manage several competing priorities simultaneously and carry out non-routine tasks independently.
5. High level written and oral communication skills with the ability to represent the research team effectively internally and externally, including the presentation of research outcomes.
6. Proven ability to investigate and solve complex problems, present logical alternative solutions which can be discussed, tested and adopted.
7. The ability to work collaboratively within a team to achieve results.

## **Desirable**

1. Demonstrated experience working with biomedical devices.
2. Demonstrated experience in surface modification and analysis.
3. Demonstrated experience in mammalian and bacterial culture methods.
4. Demonstrated experience working with quality management systems.

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.

* The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.
* This role has child safety obligations. Accordingly, the successful candidate will be required to obtain or provide evidence that they hold a working with children check prior to confirmation of appointment.

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  2. Further Together
  3. Making it Real
  4. Trusted

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