# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants |
| Advertised Job Title | Research Scientist – Biomedical Devices |
| Job Reference | 75634 |
| Tenure | Indefinite, Full-time |
| Salary Range | AU$100,710 to AU$108,985 pa + 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
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| Position reports to the | Team Leader, Biomaterial Interface chemistry |
| Client Focus – Internal | 20% |
| Client Focus – External | 80% |
| Number of Direct Reports | 0 |
| Enquire about this job | Helmut Thissen via email at 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 or call 1300 984 220. |

### Role Overview

The role of Research Scientist Staff in CSIRO is to conduct innovative research leading to scientific achievements that are aligned with CSIRO’s strategies. You may be engaged in scientific activity ranging from fundamental research to the investigation of specific industry or community problems. You will have the opportunity to build and maintain networks, play a lead role in securing project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts.

Next generation biomedical devices, ranging from biosensors to implantable devices, require the integration of multidisciplinary skills, ranging from nanostructured materials to coatings and the control of biointerfacial interactions. Moreover, progress in this field requires the evaluation of biological responses in vitro and, if required, in vivo. The impact of this work will be in improved protection from infectious diseases and improved health outcomes. Here, the translation of next generation biomedical device technologies will be facilitated by CSIRO’s Biomedical Materials Translational Facility (BMTF).

### Duties and Key Result Areas:

* Design and development of nanostructured biosensors with ultra-high sensitivity.
* Design and manufacture of next-generation coatings on biomedical devices.
* Development of novel theranostic technology platforms.
* Detailed characterisation experiments.
* Evaluation of biological responses in vitro and in vivo.
* Liaise with clients to determine their needs and take personal responsibility for client satisfaction.
* Under limited direction, assist in the planning and preparation of research proposals and carry out research investigations, requiring originality, creativity and innovation.
* Present results in a meaningful format, prepare reports for clients and/or write scientific papers for publication.
* Address problems promptly and in a constructive manner, selecting the most profitable lines of attack upon a problem, preparing detailed design proposals and experimental protocols.
* Undertake in experimental and/or observational research activities, often requiring the supervision and/or training of others to ensure experiments are established in accordance with research design, or as required.
* Draw on professional expertise, knowledge of other disciplines and research experience, recognise opportunities for innovation and generate new theoretical perspectives by pursuing new ideas/approaches and networking with scientific colleagues across a range of disciplines.
* 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 procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **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:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **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.

## **Selection Criteria**

#### Essential

1. A doctorate in a relevant discipline area, such as Chemistry, Materials Science, Biomedical Science or related disciplines.
2. Relevant postdoctoral research experience in the field of biomedical devices and theranostics.
3. Demonstrated experience in organic and polymer chemistry.
4. Proven experience in surface modification and analysis.
5. Demonstrated experience in diagnostic technologies.
6. Demonstrated experience in mammalian cell culture methods.

## **Desirable:**

1. Demonstrated experience in bacterial culture methods.
2. Proven experience in animal experiments, including ethics approvals.
3. Demonstrated experience in obtaining funding from competitive sources.

Special 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.

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