# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Research Scientist – Food Biochemistry |
| Job Reference | 71145 |
| Tenure | Indefinite  Full-time |
| Salary Range | $98,735 to AU $106,848 pa + up to 15.4% superannuation |
| Location(s) | Werribee, VIC |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | All Candidates |
| Position reports to the | Team Leader - Food Chemistry |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Dr Amy Logan via email at:  [amy.logan@csiro.au](mailto:amy.logan@csiro.au)  or phone:  +61 3 9731 3358 |
| 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

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.

The Research Scientist – Food Biochemistry will work as part of the Food Chemistry Team providing research leadership in food biochemistry, e.g. proteomics, metabolomics, food and processing interactions and the analysis of other food components. The position will have responsibility in leading internally and externally funded strategic and applied research projects, as well as building relationships with industry and academic stakeholders. The role will also require practical knowledge of liquid chromatography/mass spectrometry of proteins and other small molecules, along with related data analysis to drive our food analysis and metabolomics areas forward.

### Duties and Key Result Areas:

* Incorporate novel approaches to scientific investigations by adapting and/or developing original concepts and ideas for new, existing and future research.
* Undertake and focus research projects on structure-function relationships of food proteins and other food components.
* Conduct and effectively lead projects across disciplines such as metabolomics, the physio-chemical analysis of foods and the analytical nexus between flavour/metabolite analysis and sensory consumer science.
* Deliver project outputs at the appropriate standard, on time and within budget, including the negotiation of resource requirements.
* Undertake or lead novel science that delivers against major challenges for the food industry on a global scale, e.g. sustainability and food security.
* 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.
* 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.
* Present results in a meaningful format, prepare reports for clients and/or write scientific papers for publication in high quality journals and for presentation at national and international conferences.
* 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.
* 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.
* Provide coaching and on-the-job training to technical staff and students to ensure experiments are established in accordance with research design.
* 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

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

1. A doctorate in Biochemistry or related science area with evidence of relevant postdoctoral or industry R&D experience.
2. Experience in leading strategic or industry focussed multidisciplinary projects/project teams and/or major components of large, complex projects.
3. Knowledge and research conducted in food Chemistry/Biochemistry including a record of innovative thinking and approaches to delivering solution-based outcomes and successful scientific proposals/investigations.
4. Expertise in liquid chromatography/mass spectrometry (MS) and analysis of resulting data.
5. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, and carry out independent research, to achieve organisational goals.
6. Demonstrated mindset to facilitate respect, collaboration, support, inclusiveness, and accountability in the workplace.

**Desirable:**

1. Experience in other analytical techniques for food analysis, such as gas chromatography-MS.
2. Experience in flavour analysis and working with sensory and consumer scientists.
3. Experience in understanding the functionality, characterisation, and separation of protein systems.
4. Data science and/or computer programming expertise in languages, such as R or Python.
5. Demonstrated ability to mentor and develop junior scientists and students.
6. Strong interest in translation of science outcomes to industry applications.

Special Requirements

Appointment to this role will be subject to the following conditions:

* 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.
* If the successful candidate is not an Australian Citizen or Permanent Resident, they may be required to undergo additional security clearances, which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test- see https://ielts.com.au/)

## **About CSIRO:**

We solve the greatest challenges through innovative science and technology. To find out more visit us [online](http://www.csiro.au/)!

CSIRO is a values-based organisation. We expect our employees to demonstrate behaviours aligned to our values of:

• People First

• Further Together

• Making it Real

• Trusted

Find out more about CSIRO [Agriculture and Food](https://www.csiro.au/en/Research/AF)