



The Australian Wine  
Research Institute

## POSITION DESCRIPTION

**Title of Position:** Research Bioinformatician  
(appointed as Scientist, Postdoc or Research Scientist based on qualifications and experience)

**Reporting to:** Research Scientist - Metabolomics

**Overview:** The Research Bioinformatician will provide bioinformatics support in computational metabolomics and data management, contribute to development and implementation of new methods and workflows, and assist with research projects and service delivery to research and industry clients by the Metabolomics Australia facility at the Australian Wine Research Institute.

**Qualifications:** A PhD with a focus on computational metabolomics, bioinformatics, statistics or a related field; or a BSc or MSc in software engineering, computational sciences or one of the above fields, with a minimum of three years' experience in relevant projects.

**Required experience:**

- Practical experience in computational metabolomics or bioinformatics
- Experience with at least one programming language (e.g. R, python)
- Sound knowledge of statistical tools and methods

**Desired experience:**

- Experience with biology, chemistry or medical research
- Experience in integration of multi-omics data
- Experience in meta-data capture and integration with analytical data
- Experience with data processing and data workflows associated with mass spectrometry platforms (GC/MS and/or LC/MS)
- Experience in cloud-based computing and database administration
- Familiarity with Linux/Unix command line
- Experience in artificial intelligence and machine learning

**Principal Accountabilities:**

1. Provide bioinformatics support to staff and clients of the AWRI Metabolomics Facility.
2. Plan, execute, complete and report projects in a timely fashion and to a standard expected by the AWRI.
3. As directed, extend, integrate, develop and maintain appropriate systems, new tailored tools and workflows, databases and end user documentation.
4. Collaborate with researchers and industry to design and support the bioinformatic aspects of their projects.

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5. Provide training to collaborators and clients, conduct data analyses for metabolomics projects, assist in the preparation of reports and manuscripts.
6. Contribute to metabolomics systems software development projects.
7. Use best practice to record, on a daily basis, details of all experimental work and details and outcomes of data processing and interpretation.
8. Support operational activities of the Metabolomics Australia Facility, including collaborations with nodes of Metabolomics Australia in other states, other NCRIS facilities, AWRI Commercial Services and other AWRI research teams.
9. Assist in the development of services and the client base of the SA Metabolomics Facility.
10. Undertake other duties as directed by the Research Scientist – Metabolomics, Group Manager – Research or the Managing Director.
11. Accept that all intellectual property, patents and discovery arising during the course of employment at the AWRI remain the property of the AWRI.
12. Promote the general well-being of the AWRI by ensuring that all contact with clients, staff or the public is performed in a professional and confidential manner.

**Person Specification:**

13. Practical understanding of and experience in scientific research.
14. Ability to work and communicate successfully within a multi-disciplinary environment and across research and industry groups.
15. Ability to maintain effective working relationships and contribute positively in a team environment.
16. Superior oral and written communication skills.

**Workplace Health and Safety Responsibilities:**

Employees and students must take reasonable care to protect their own health and safety, and have responsibilities to:

1. Ensure that they do not increase the risk to the health, safety or welfare of others through any act or omission.
2. Obey reasonable instructions that are designed to protect their health, safety and welfare.
3. Use, in the appropriate manner, equipment that is provided to protect their health, safety or welfare.
4. Not wilfully interfere with, or misuse, items or facilities provided in the interest of health, safety or welfare of employees.
5. Ensure that they are not affected by alcohol or any other drug to such an extent that they endanger themselves or others.
6. Report promptly, any hazards, incidents or injuries to their Manager/Team Leader.