



The Australian Wine
Research Institute

POSITION DESCRIPTION

Title of Position: Scientist/Postdoctoral Research Scientist - Metabolomics

Reporting to: Research Scientist - Metabolomics

Overview: The Scientist/Postdoctoral Research Scientist will work collaboratively on a range of metabolomics projects and provide professional services in metabolomics to the Australian scientific community and clients from industry, across a broad range of applications and fields. He or she will also contribute to the development of metabolomics methods and support the operation of the SA Metabolomics Facility, which is located at and managed through the Australian Wine Research Institute (AWRI), at the Waite Precinct, Adelaide, South Australia.

Qualifications: A BSc (Hons) degree or PhD in chemistry or biology with a focus on metabolomics, bioinformatics, analytical chemistry or a related field.

Required experience:

- At least three years' experience in a research environment
- Experience with mass spectrometry platforms (GC/MS and/or LC/MS) and related data processing software
- Experience in analytical chemistry related to the study of volatiles and non-volatiles in food, beverages or biological matrices

Desired experience:

- Experience with statistical methods.
- Experience in computational metabolomics.
- Experience with at least one programming language (e.g. R, python).

Principal Accountabilities:

1. As directed, take responsibility for experimental design, sample preparation, chemical analysis, data analysis and report preparation, for designated projects.
2. Take responsibility for the adoption, development, validation, application and review of established and new metabolite profiling and targeted metabolite analytical methods, as directed by the Research Scientist - Metabolomics.
3. Actively contribute to the planning, execution and completion of research projects and service provision projects within designated project parameters.

Corner of Hartley Grove and Paratoo Road, Urrbrae
Correspondence:
PO Box 197
Glen Osmond SA 5064
Australia

Website: www.awri.com.au
Telephone 61 8 8313 6600
Facsimile 61 8 8313 6601

4. Actively contribute to the reporting and dissemination of outcomes through regular reports, refereed and industry publications, seminars and workshops to a standard expected of AWRI presentations and publications.
5. Actively engage with clients to ensure a high level of customer service and the achievement of quality scientific outcomes.
6. Regularly search, review and report on emerging literature relating to developments in metabolomics that could be of benefit to the facility.
7. Contribute to all operational activities of the SA Metabolomics Facility including:
 - a) Assist with collaborative activities with other nodes of Metabolomics Australia, AWRI Commercial Services and other AWRI research teams.
 - b) Review methods and/or data generated by the metabolomics team.
 - c) Assist with the coordination of projects and operational supervision of other staff, visiting scientists and students.
 - d) Assist in the development of the client base for the AWRI metabolomics facility.
8. Identify opportunities for continuous improvement, new services and other business development.
9. Contribute to the efficient, effective and safe operation of research laboratories.
10. Use best practice to record, on a daily basis, details of all experimental work and outcomes of data processing and interpretation.
11. Assist in the development of services and the client base of the SA Metabolomics Facility.
12. Undertake other duties as directed by the Research Scientist – Metabolomics, Group Manager – Research or the Managing Director.
13. Accept that all intellectual property, patents and discovery arising during the course of employment at the AWRI remain the property of the AWRI.
14. 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:

1. Practical understanding of and experience in scientific research.
2. Ability to work and communicate successfully within a multi-disciplinary environment and across research and industry groups.
3. Ability to maintain effective working relationships and contribute positively in a team environment.
4. 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.