

Position Description – Research Associate in Chemistry

Updated 16 February 2026

POSITION DETAILS	
College	College of Science and Engineering
Organisational Unit	Molecular Sciences and Technology
Supervisor	Research Fellow
Classification	Research (Academic) Level A
Employment Type	Fixed-term, full-time

POSITION SUMMARY
<p>The Research Associate will undertake research in the Molecular Science and Technology Research Sections under the direction of Dr Thomas Nicholls. In working with Chief Investigator Dr Nicholls and collaborators Prof Justin Chalker and Dr Harshal Patel, the incumbent will assist in leading the design and execution of the research project in developing new technologies for gold recovery from ore and electronic waste. The project is funded by a grant from Australia's Economic Accelerator Ignite program.</p> <p>The incumbent may assist in leading students involved in the research Project, according to the University's policies, practices and standards.</p>

UNIVERSITY EXPECTATIONS AND VALUES
<p>All staff at Flinders are responsible for understanding their obligations and responsibilities as set out in the University's code of conduct and are expected to:</p> <ul style="list-style-type: none"> demonstrate commitment to the University's values of Integrity, Courage, Innovation, Excellence and the underlying ethos of being Student Centred; contribute to the efficient and effective functioning of the team or work unit in order to meet the University's objectives. This includes demonstrating appropriate and professional workplace behaviours, providing assistance to team members if required and undertaking other key responsibilities or activities as directed by one's supervisor; promote and support an inclusive workplace culture which values diversity and embraces the principles of equal opportunity; perform their responsibilities in a manner which reflects and responds to continuous improvement; and familiarise themselves and comply with the University's <i>Work Health and Safety, Injury Management and Equal Opportunity</i> policies. <p><i>A Nationally Coordinated Criminal History Check (NCCHC) which is satisfactory to the University will be required by Flinders University before the successful applicant can commence in this position.</i></p>

KEY POSITION RESPONSIBILITIES

The Research Associate in Chemistry is accountable for:

- Assisting in leading the Project by collaborating with the Project Research Team to successfully deliver project milestones and Key Performance Indicators.
- Contribute to the planning and execution of research by offering new ideas, reviewing relevant literature and other sources of information, actively participating in the production of data and attending seminars, meetings and conferences.
- Contributing to the coordinating, planning and executing the project tasks required to collaborate with industry partners.
- Contributing to ethical, high quality and innovative research and evaluation through activities such as scholarship, quality publication, external grant acquisition and presentations that aligns with the College areas of research strength and focus.
- Assisting principal supervisors with supervision of postgraduate students.
- Establishing and maintaining collaborations within the University, and at State, national and international levels in order to improve research outputs, patents and publications.
- Some out of hours work (including weekends) as well as rural SA, interstate and overseas travel, may be required.
- Any other responsibilities in line with the level of the position as assigned by the Supervisor and/or the University.

KEY POSITION CAPABILITIES

- Completion of a PhD in Chemistry (or an allied field such as material science or engineering) or significant progress towards completion of a PhD in Chemistry (or an allied field such as material science or engineering)
- Demonstrated experience in synthetic chemistry, including areas of polymer chemistry, inorganic chemistry, electrochemistry, photochemistry and/or organic chemistry
- Demonstrated experience in chemical and material analysis, including the characterisation of inorganic substances, organic molecules, polymers, and/or composites
- Demonstrated emerging research experience in terms of publications and presentations at a national and/or international level in a relevant field.
- Demonstrated ability to deliver project targets on time.
- Demonstrated well-developed interpersonal skills and the capacity to collaborate and engage with diverse stakeholders and industry partners.
- Demonstrated ability to critically review the literature in relevant fields.
- Demonstrated ability to undertake collaborative research and establish and maintain effective relationships with staff and industry.
- Demonstrated excellent oral and written communication skills in an academic environment.