

POSITION PROFILE

Research Assistant or Research Associate - Hydrogeology

Faculty of Science and Technology

Position Number	10654
Position Classification	Research-Focused Academic Level A
Location	Casuarina Campus (or another location as required) Ability to travel to regional and remote locations
Reporting to	Outstanding Future Researcher – Northern Water Futures
Special Provisions	It is a requirement of the position for the occupier to obtain and hold a current NT driver's licence.
Required Qualifications	<ul style="list-style-type: none">For Research Assistant - Masters or relevant qualifications in environmental science, hydrogeology, hydrology or related fields, with demonstrated knowledge and experience working in the field of hydrogeology.For Research Associate - PhD in environmental science, hydrogeology, hydrology or related fields, with demonstrated knowledge and experience working in the field of hydrogeology.

Purpose of the Position

The position is to work as a part of the 'Western Davenport Hydrostratigraphy Project', funded by the National Water Grid Authority, via the Northern Territory Government. The position will be involved in quantitative research through the collection of field data, the collation and preparation of pre-existing datasets, data analyses, and the management of project finance. Where relevant, the Research Assistant or Associate will also contribute to the preparation of research reports and scientific manuscripts. The research undertaken through the project will utilise groundwater data including, but not limited to, groundwater levels, major ion chemistry and radioisotopes.

Duties

The following accountabilities are not exhaustive and may include others as directed from time-to-time.

Research data collection and analysis

- Assist in the delivery of research projects with key stakeholders and research collaborators (under supervision of senior academic staff).
- Under guidance from the research team, prepare and interpret research including data collection and analysis.
- Conduct field and laboratory-based data collection activities.
- Undertake statistical analysis and modelling of datasets.

Research project development and management

- Engage with communities, government and other stakeholders through project development, implementation and extension.

Occupational Category	2421	Industry Class	81
Manager Category		Industry Subdivision	8102

- Contribute to community and stakeholder needs in environmental research through technical input where required.
- Contribute to the management of research budgets and delivery of milestone reporting requirements for externally or internally funded projects.
- Steady development of an academic research profile, including the development of a research profile.
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Research impact and engagement

- Assist in the writing of reports and Q1 publications and/or other high-level outputs as appropriate.
- Enhance the visibility and reputation of CDU and RIEL through active participation in public outreach activities as an individual and through participation in CDU events.
- Undertake written presentation of research findings including liaison with research collaborators, research end users and other project stakeholders.
- Liaise with government and industry researchers outside the University.

Additional accountabilities for Research Associate

- Lead the writing of reports and Q1 publications and/or other high-level outputs as appropriate.

Key Selection Criteria

Essential competencies for Research Assistant position

1. Some experience with handling, analysis and interpretation of major ion chemistry and groundwater tracers (e.g., to estimate water sources, age/residence times).
2. Demonstrated ability to assist with the production of high-quality groundwater interpretations.
3. Experience with computer scripting, or a willingness to learn.
4. Demonstrated ability to produce scientific reports.

Essential competencies for Research Associate position

1. Extensive experience with handling, analysis and interpretation of major ion chemistry and groundwater tracers (e.g., to estimate water sources, age/residence times).
2. Experience in remote area fieldwork, including the collection of water samples.
3. Demonstrated ability to produce high quality groundwater interpretations.
4. Experience with computer scripting.
5. Demonstrated ability to publish scientific research in international journals.

Desirable competencies

1. 4WD experience

University Expectations

- Contribute to the efficient and effective functioning of their team or work unit in order to meet University objectives. This includes demonstrating appropriate and professional workplace behaviours in accordance with the Code of Conduct, providing assistance to team members if required and undertaking other key responsibilities or activities as directed by one's supervisors;
- Demonstrate and promote the University Values, ensuring all workplace behaviour is appropriate in all workplace settings, proactively calling out inappropriate behaviour;
- Read, understand and comply with all University policies and procedures;

- Undertake risk management and actively support and participate in the risk management processes adopted by the University which include identifying, analysing and evaluating risk that may impact on the University;
- Work at and travel between other University campuses or to other locations from time to time as may be required during the course of employment;
- Complete all mandatory training such as required by the University;
- Demonstrate understanding of the principles of anti-discrimination, staff and student equity, work health and safety and other relevant legislation, and show the willingness and capacity to implement equal employment opportunity and work health and safety plans, policies and programs.

Work Health & Safety

- Ensure all activities comply with WHS legislation and university policy & procedure.
- Implement & monitor risk management activities including, but not limited to, workplace inspections, incident/hazard investigation and follow-up, and implementation of risk controls.
- Analysis of WHS training requirements for staff including the provision of training and monitoring of training to ensure completion and currency.