Cloud Engineer

College/Division	Deputy Vice-Chancellor (Research)
School/Section	Integrated Marine Observing System (IMOS)
Location	Hobart
Classification	HEO 8
Reporting line	Technical Leader - RIMReP-DMS

Position Summary

The Integrated Marine Observing System (IMOS) is a national collaborative research infrastructure, supported by the Australian Government. It is operated as an unincorporated joint venture (UJV), with the University of Tasmania as Lead Agent (http://imos.org.au/). IMOS provides a national, multi-institutional capability to undertake systematic and sustained observing of the marine environment, from the open ocean onto the continental shelf and into the coast, and across physical, chemical and biological variables. IMOS is implemented through a national portfolio of over 60 platform and technology-based Facilities.

The Reef 2050 Integrated Monitoring and Reporting Program (RIMReP) is a partnership involving key Australian government environmental management and science agencies, the Great Barrier Reef Marine Park Authority (the Reef Authority), Department of Agriculture, Water and the Environment (AWE), Australian Institute of Marine Science (AIMS), Integrated Marine Observing System (IMOS), CSIRO and the Queensland Government. Traditional Owner representatives also form a key part of the Program's governance. RIMReP is a long-term initiative, critical to supporting resilience-based management and delivering evidenced-based reporting on the Reef. It will provide Reef managers with information to guide management decisions and help them track progress against the Plan. It will also drive better alignment between existing programs, while helping to fill monitoring and modelling knowledge gaps.

IMOS has been commissioned to implement the RIMReP's Data Management System (DMS), conceived as a data storage and access service and related automation tools. It will include a data API, which will provide real-time access to datasets in a range of standard formats, and a metadata API, which enables the discovery of the data accessible in the DMS, in addition to relevant data in other systems from external providers, where appropriate.

The Cloud Engineer will play a key role in implementing a cloud-based infrastructure, from specific data ingestion methods to delivering a standardised data stream. The position's primary role is to design, implement and manage a native cloud infrastructure for the DMS that is scalable, reliable, cost-effective and secure.

We are an inclusive workplace committed to 'working from the strength that diversity brings' reflected in our Statement of Values. We are dedicated to attracting, retaining and developing our people and are committed to inclusive principles. We celebrate the range of diverse assets that gender identity, ethnicity, sexual orientation, disability, age and life course bring. Applications are encouraged from all sectors of the community. Tell us how we can make this job work for you.

What You'll Do

- In collaboration with the RIMReP Technical Lead, work with a small team to design, build and operate a data management system in a cloud environment.
- Develop, manage and collaborate on infrastructure-as-code templates.
- Provide technical advice and mentoring for internal and external stakeholders on the use of modern cloud technologies.
- Documentation of work done including architecture, code and processes and procedures.
- Ensure appropriate security controls are in place.
- Support team members and enable them to deliver their work in an agile environment.
- Participate in program coordination ceremonies such as stand-ups, and sprints.

What We're Looking For (success criteria)

- Tertiary qualification in Computer Science (or similar) or equivalent experience.
- Significant experience in architecting, designing, developing, and implementing cloud solutions on AWS or an equivalent cloud platform.
- Experience with Python and/or similar programming languages.
- Knowledge and experience with containerisation and container orchestration.
- Experience developing and maintaining infrastructure as code.
- Extensive experience in source control management and associated processes.
- Detail-oriented team player with well-developed written and verbal communications skills.
- Proven ability to collaborate with multi-disciplinary teams.

Other Desirable Position Requirements

- Significant experience in data management
- Experience with Postgres or equivalent database management systems
- Experience deploying and maintaining Kubernetes
- Knowledge of cloud security

Applicants are required to address the success criteria in their application

It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.

University of Tasmania

The University of Tasmania is an institution with an enduring commitment to our state and community, and a strong global outlook. We are committed to enhancing the intellectual, economic, social and cultural future of Tasmania. Our Strategic Direction strongly reflects the University community's voice that our University must be place based but globally connected as well as regionally networked and designed to deliver quality access to higher education for the whole State.

We believe that from our unique position here in Tasmania we can impact the world through the contributions of our staff, students and graduates. We recognise that achieving this vision is dependent on the people we employ, as well as creating a university that is values-based, relational, diverse, and development-focused.

Check out more here: https://www.utas.edu.au/jobs https://www.utas.edu.au/careers/our-people-values-and-behaviours