

Technical Lead

College/Division	Deputy Vice-Chancellor (Research)
School/Section	Integrated Marine Observing System (IMOS)
Location	Hobart
Classification	HEO 9
Reporting line	Project 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 connect and/or ingest data from multiple and diverse federated data sources and develop a data API, providing real-time access to datasets in a range of standard formats. It will also deliver a metadata API, which enables the discovery of the data accessible in the DMS and relevant data in other systems from external providers, where appropriate.

The Technical Lead will design engineering solutions and ensure all parts of the technical design are correctly incorporated, providing guidance, supervision, and support to the technical team and technical quality control throughout all stages of the project. You will play an essential role in delivering a cloud-native data management system in collaboration with the RIMReP-DMS Team. You will work closely with the Team Leader to coordinate and ensure full integration of activities. The appointee will also develop and maintain strong relationships with all project stakeholders, with technical and non-technical backgrounds.

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

- Provide leadership and direction to the project’s technical team to achieve the project’s goals, as well as oversee all aspects of project deliverables, including architecture and design, to ensure quality and strategic alignment.
- Contribute to setting the technological roadmap and clearly and concisely communicate goals, tasks and other organisational needs to your team.
- Resolve technical issues and ensure all parts of the technical design are correctly incorporated.
- Provide technical support and quality control throughout all stages of the projects.
- Work with the project manager and scrum team members to ensure solutions are delivered timely & on budget
- Gather technical requirements and provide effort estimates and delivery timelines.
- Responsible for building, editing, prioritising and maintaining the team backlog to streamline the execution of program priorities while maintaining conceptual and technical integrity of the RIMREP DMS.
- Create plan and strategy into technical documents, and handle activities such as code audits, performance review & optimisation, security review & patching, cloud environment setup and configurations.
- Engage with various technical and non-technical stakeholders, including the IMOS/AODN team, Reef Authority, and data providers from different organisations.

What We're Looking For (success criteria)

- Formal qualifications in Computer Science or Software Engineering Degree and/or equivalent experience as well as a minimum of five years experience as a Technical Lead of small or medium size teams of developers, implementing and managing digital applications, products/services that balance user needs, business objectives and technological constraints.
- Extensive experience architecting digital solutions using AWS components and services, including implementation of API/Webhook services.
- Solid hands-on experience in Python and SQL essential.
- Knowledge and experience with containerisation and container orchestration
- Experience developing and maintaining infrastructure as code
- Wide-ranging experience in driving the full product management life cycle – defining, planning, developing, launching and managing products and prioritising high-impact initiatives in an agile environment, including source control management and associated processes.
- Ability to communicate effectively with technical and non-technical stakeholders

Other Desirable Position Requirements

- Significant experience in managing large volumes of tabular, vector and raster data.
- Knowledge of Cloud infrastructure 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.

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