Software Engineering Manager

College/Division	Deputy Vice-Chancellor (Research)
School/Section	Integrated Marine Observing System (IMOS)
Location	Hobart
Classification	HEO 9
Reporting line	Director, AODN
Date	September 2021

Position Summary

The University of Tasmania is building a vision of a place-based University with a mission to enhance the intellectual, economic, social and cultural future of Tasmania, and from Tasmania, contribute to the world in areas of distinctive advantage. The University recognises that achieving this vision is dependent on the people we employ as well as creating a people-centred University that is values-based, relational, diverse, and development-focused.

We are seeking to appoint a Software Engineering Manager in the Integrated Marine Observing System (IMOS) as part of the Deputy Vice-Chancellor (Research) division.

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, 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.

All observations undertaken by IMOS produce data streams in near real time and/or delayed mode (quality controlled), that are discoverable, accessible, usable and reusable via the Australian Ocean Data Network (AODN). Increasingly, even more data is being made available via AODN from a wide range of partner organisations – research institutions, Federal and State Government departments, and private industry. As the national scale marine observing system, IMOS supports a high level of international collaboration.

The Australian Ocean Data Network (AODN) facility of IMOS has developed a single integrative framework for marine data and information management, discovery and access, supporting both IMOS and the Australian marine community. This infrastructure employs open-source principles and is standards-based, utilising ISO and OGC standards for metadata and data, based on an Amazon Web Services platform. The AODN team is structured as two interleaved groups – Information Infrastructure and Data Services –working together to deliver information services for IMOS and the AODN.

The primary role of the Software Engineering Manager will be to manage a team of highly skilled developers to build and support the geospatial and web based scientific software and information infrastructure that underpins the AODN. The position will involve staff management, mentoring and coaching; leadership in future infrastructure development, ensuring infrastructure development is aligned to strategic goals and solutions are supportable and implemented effectively; planning and monitoring tasks and resources on a wide variety of projects.

The Software Engineering Manager will work closely with the Team Leader - Data Services to coordinate and ensure full integration of activities. The appointee will also support the development and maintenance of strong relationships with all IMOS stakeholders, collaborating Australian partners, and other related initiatives nationally and internationally.

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 a team of high performing software engineers, staff who specialise in information infrastructure and database management to deliver on organisation strategic objectives. You will be responsible for hiring, coaching and the individual success of each of your team members.

- Foster a supportive environment that facilitates collaborative teamwork, professional development and encourages initiative, enthusiasm, cross-team cooperation and high-quality outputs.

- Contribute to setting the technological roadmap and clearly and concisely communicate goals, tasks and other organisational needs to your team.

- Model operational excellence, owning your team's operations including code quality and reviews, testing, security and monitoring.

- Participate proactively at project initiation and planning phases of system changes to ensure architectural integrity is maintained, changes are aligned to strategic plans and solutions are supportable and implemented effectively.

- Work with the AODN Executive to prepare and deliver business and implementation plans, championing the strategic goals and objectives of the AODN.

- Negotiate successful outcomes in an innovative and resourceful manner, including amongst diverse clients who may have conflicting priorities.

- Engage with the national and international marine science community managing and building effective relationships to ensure best practice and promote uptake and use of the AODN information infrastructure.

What We're Looking For (success criteria)

- Computer Science/Software Engineering Degree and extensive demonstrated industry experience working in software development, including previous experience building and managing software engineering teams (in lieu of formal qualifications, consideration will be given to candidates with relevant experience).

- Demonstrated ability to lead, motivate and manage resources, establishing priorities, allocating and scheduling resources to undertake development, support, maintenance and project work.

- Wide-ranging experience in the management and support of complex production software system based upon diverse software infrastructure.

- Strong technical background, ideally having worked for 5+ years with hands on experience with **Java: Spring Boot / JavaScript: React / Python / RESTful API** and confident working with a range of cloud services on **Amazon Web Services (AWS).**

- High-level written and verbal communications and presentation skills that result in effective and appropriate communication, including the ability to articulate technical information clearly and concisely.

- Demonstrated ability to work under broad direction only, deal with competing demands and effectively manage the expectations and demands of multiple stakeholders in a complex environment.

Other position requirements

- Experience in the project management of significant Information and Communication Technology (ICT) initiatives, forward work schedules and leading a team in an agile environment.

- Experience in system and data architectures.

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

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> *The intention of this position description is to highlight the most important aspects, rather than to limit the scope or accountabilities of this role. Duties above may be altered in accordance with the changing requirements of the position.*