POSITION DESCRIPTION

Position Title:	Cloud Engineer
Cluster / Business Unit / Division	Information Technology
Section or Unit:	Infrastructure
Classification:	Band 6
Job Family:	ICT & Digital Solutions
Position Description Number:	PD-2377
Work Contract Type:	Professional/Technical
STEMM/NON-STEMM:	STEMM
STEMM CATEGORY:	Information Technology

POSITION PURPOSE

This position is to lead the transition to cloud technologies at ANSTO. The Cloud Engineer will lead the migration of systems to cloud platforms, including mentoring existing technical staff at junior and senior levels.

It will provide specialist technical guidance to the organisation around the adoption and ongoing development of cloud solutions within ANSTO. Additionally, the Cloud Engineer is expected to be a primary Subject Matter Expert (SME) supporting the Asset Manager of ANSTO's cloud-based infrastructure and services.

ORGANISATIONAL ENVIRONMENT

ANSTO leverages great science to deliver big outcomes. We partner with scientists and engineers and apply new technologies to provide real-world benefits. Our work improves human health, saves lives, builds our industries and protects the environment. ANSTO is the home of Australia's most significant landmark and national infrastructure for research. Thousands of scientists from industry and academia benefit from gaining access to state-of-the-art instruments every year.

Information Technology is dedicated to enhancing and maintaining ANSTO's digital facilities for operational reliability and providing a range of customer services to support ANSTO's research, business activities and projects.

The Cloud Engineer is part of the IT Infrastructure team. IT Infrastructure also comprises Teams covering other infrastructure specialties – Networks, Microsoft Systems and UNIX Systems. As cloud technologies potentially span all of these domains the Cloud Engineer role will report directly to the GM IT Infrastructure.

Other teams within IT are responsible for Development & Analytics, Cyber Security & OT, SAP Solutions, Endpoint Systems & Support, Architecture and Travel & Administration.

POSITION ENVIRONMENT

The IT Infrastructure team is comprised of multi-disciplinary specialists managing the development, delivery and ongoing support of ANSTO's core network, Microsoft Server and M365, and UNIX infrastructure. This includes firewalls, routers, links, PABXs, servers, storage, and this role's focus - cloud platforms. Stability and uptime of this environment is a critical capability supporting the business operations of ANSTO and meeting 99.9% availability KPI.

The Cloud Engineer will design, deliver and maintain the full spectrum of ANSTO's cloud services, contributing to the development of ANSTO's digital capacity and capability.

ANSTO intends to pursue a multi-cloud approach across Cloud Platforms. As part of Federal Government Whole of Government arrangements we make significant use of Microsoft platforms such as Microsoft 365 and Azure. This role will be instrumental to planning and managing an integrated future across multiple on-premise environments and hyperscalers such as Amazon Web Services and Google Cloud, and will undertake ongoing market assessment of emerging alternatives.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

- Responsible for the development and delivery of ANSTO's Cloud Strategy across multiple IT Teams
- Mentor other IT staff, uplifting the organisations internal capabilities across cloud technologies
- Actively engage in the ongoing administration of the organisations core systems/services to ensure availability and efficient operation.
- Undertake BAU systems administration functions, such as SSO administration and billing and subscription management.
- Provide level three technical support by prioritising and resolving incidents/requests raised by the business, utilising SIEM data, diagnostic reports, knowledge searches and system logs.
- Contribute to projects by providing specialist cloud skills and expertise on an as needs basis.
- Assist in the design of complex IT systems that have a significant impact across the organisation.
- Maintain a high standard of system documentation describing the design, security, operation and management of services aligned to the Cloud Engineer role, and compliant with ANSTO build standards and patterns.
- Develop working relationships with internal and external stakeholders to maintain operational requirements and deliver timely problem resolution.
- Undertake additional duties as required and during period of leave of other staff.

Decision Making

- The position is fully accountable for the accuracy, integrity and quality of the content of advice provided to IT Infrastructure team members and is required to ensure that decisions are based on sound evidence, but at times may be required to make effective judgements under pressure or in the absence of complete information or expert advice.
- Operate as the key Subject Matter Expert (SME) for Cloud Technologies within ANSTO, advising GM IT Infrastructure, IT Architecture and other IT SMEs on direction and adoption.
- Determine key work priorities within the context of agreed work plans and will consult with GM IT Infrastructure and other IT Infrastructure team members on complex, sensitive and major issues that have a significant impact.
- The levels of authority delegated to this position are those approved and issued by the Chief Executive Officer. All delegations will be in line with the ANSTO Delegation Manual AS-1682 (as amended or replaced).
- The ANSTO values, organisational corporate plan, business plan, operational excellence program, the (section/unit or higher) strategy and (section/unit) objectives provide the context for the position.

Key Challenges

- Keeping ahead of rapidly developing changes in technology, standards and cyber security threats.
- Advising peers, management and architecture teams on technology strategy in and around cloud technologies.
- Balancing the at times competing demands of BAU and projects, working with peers and management to escalate and work through any conflicts.
- Working with external entities to design solutions within strict cyber security controls.
- Ensuring cloud systems align with key cybersecurity controls, such as secure coding, vulnerability and patch management, penetration testing, backup and restoration.
- Implementing changes to satisfy evolving user requirements.
- Managing and providing technical leadership in crucial IT projects.

KEY RELATIONSHIPS

Who	Purpose
Internal	
GM IT Infrastructure	- Actively contribute to the direction and strategy for Cloud Systems. - Provide expert and technical advice on systems management and enhancements. - Recommend and gain endorsement for improvements to systems development and administration. - Receive guidance and direction. - Provide expert, authoritative and evidence-based advice.
IT Infrastructure Team Leads IT Infrastructure Subject Matter Experts (SMEs)	- Contribute to group decision making processes, planning and goals. - Provide expert advice, technical and otherwise on a range of matters, but focused on cloud technologies. - Collaborate and share accountability.
Development and Analytics	- Support cloud-based development platforms such as Azure DevOps and Azure Key Vault. - Provide cloud development and data platform infrastructure support such as integration runtime servers and gateway clusters. - Access management support, e.g. managed identities & certificates. - Manage cloud monitoring and alerting. - Expert and technical advice on cloud application architecture & solution design. - Create and configure cloud resources and services to support developed solutions.
Enterprise Architecture	- Act as a Subject Matter Expert on all Cloud technologies. - Actively contribute to the direction and strategy for Cloud Systems. - Inform Architectural decision-making process in alignment with IT and wide organisational strategy.
IT Project Management Office	- Provide expert and technical advice on enhancements for relevant IT cloud migration and design projects. - Work with and / or embed as part of project team to deliver agreed scope for Cloud Design and Migration Projects & Programmes. - Input into overall infrastructure and business application hosting strategy through the lens of Cloud hosting and leveraging cloud services to provide overall solutions across the IT environment.
Internal Customer Stakeholder Groups	- Understand and contextualise internal customer/stakeholder demands for cloud technologies. - Develop and assist developing solutions to support demand and in turn business capability.

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to General Manager IT Infrastructure
Direct Reports	NIL
Indirect Reports	NIL

Special / Physical Requirements	
Location:	Lucas Heights, NSW
Travel:	Occasional travel to Clayton, VIC and other sites/campuses
Physical:	Office based physical requirements (sitting, standing, minimal manual handling, movement around office and site, extended hours working at computer)

Radiation areas:	May be required to work in radiation areas under tightly regulated conditions
Hours:	Willingness to work extended and varied hours based on operational requirements After hours work may be required for short and infrequent periods
Clearance requirements:	Satisfy ANSTO Security and Medical clearance requirements Obtain and maintain appropriate federal government clearance

Workplace Health & Safety

Specific role/s as specified in AP-
2362 of the ANSTO WHS
Management System
All Workers

ORGANISATIONAL CHART

On file

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Bachelor's degree in Computer Science, Engineering, or a related field. Equivalent practical experience will also be considered.
2. Proven experience as a Cloud Engineer or similar role, with a strong understanding of Microsoft 365 and Azure services, billing, resource management, storage, and networking.
3. Relevant Azure certifications (e.g., Azure Administrator Associate, Azure Solutions Architect Expert) or similar across other cloud platforms are highly desirable.
4. Experience leading cloud strategy and roadmap development in similar organisations
5. Experience mentoring and skilling up other technical staff to support the adoption of new technologies – ideally cloud technologies.
6. Demonstrated experience providing and ensuring system security and privacy, business continuity, disaster recovery including applying appropriate governance.
7. Demonstrated experience in the creation of Azure Synapse Dataflows and pipelines.
8. Experience with creation and maintenance of DevOps environments.
9. Strong problem-solving skills and the ability to work well in a team-oriented, collaborative environment across multiple organisational units.
10. Excellent communication and interpersonal skills, with the ability to effectively convey technical concepts to both technical and non-technical stakeholders.
11. Familiarity with DevOps practices and tools such as CI/CD pipelines, source control (Git), and containerisation are highly desirable.

VERIFICATION

Line Manager		Delegated Authority	
Name:	Alison Gould	Name:	Marianne Morton
Title:	GM IT Infrastructure	Title:	Chief Information and Digital Officer
Signature:		Signature:	
Date:		Date:	