Job Description

Job title: Senior Cloud & Infrastructure Analyst

Directorate: Digital and Technology   **Job Family: Technology**

Grade: G   **Role profile: TSG1**

Full time (37 hours per week)   **Permanent**

	Duties of the role
Overall purpose of the role	The postholder will lead the design, development and management of core infrastructure solutions that span both on-premises and cloud technologies. They will be a subject matter expert across the technology areas within DMU's hybrid infrastructure landscape, to include Public Cloud (Microsoft Azure) and on Premises technologies, Servers (Windows/Linux), Virtualization (VMWare), enterprise storage (NetApp) and a mix of infrastructure and IT Security management solutions. They will play a key role in assessing and documenting the university's existing infrastructure landscape, particularly within its data centres, to inform strategic planning and migration to hybrid and cloud environments. The postholder will support the university's early-stage cloud adoption journey by developing infrastructure roadmaps and guiding the transition to scalable, resilient, and secure platforms aligned with DMU's digital transformation strategy. Utilizing their expertise, the postholder will embed security by design into architecture principles, ensuring solutions meet university needs and remain adaptable to evolving strategic objectives.

Main duties and responsibilities	**Strategic Context**
	
	   o Responsible for significant contribution to the definition and delivery of DMU's Cloud Adoption Strategy, including assessment of existing infrastructure to inform strategic planning.
	
	   o Subject matter expert, advising on hybrid cloud adoption and hosting within the university's broader digital strategy and enabling secure, innovative digital services.
	
	   o Design and develop scalable and resilient hybrid cloud solutions integrating legacy systems with cloud infrastructure that support the operation of modern applications and ensure they can adapt to changing demands.
	
	Cloud and Infrastructure Optimisation and Management
	
	   o Oversee monitoring of service performance to ensure efficient and effective delivery aligns with directorate and university objectives, including annual targets and Key Performance Indicators (KPIs) to maintain performance and uptime
	
	   o Manage disaster recovery processes, ensuring robust backup and restoration capabilities
	
	   o Establish and enforce architectural standards, ensuring alignment with best practices for reliability, performance, and cost-efficiency.

- o Collaborate with technical teams to modernize infrastructure and migrate services to hybrid environments, ensuring efficient resource utilization and alignment with current-state assessments.
- o Evaluate infrastructure designs, providing constructive feedback to ensure alignment with strategic objectives.

Hybrid Infrastructure Design

- o Administration and management of scalable, resilient, and secure hybrid infrastructure platforms integrating cloud, on-premises, and legacy systems.
- o Assess and document existing infrastructure to support development of comprehensive roadmaps for migration to hybrid cloud solutions, ensuring minimal disruption to operations.
- o Design systems leveraging SaaS, PaaS, and IaaS for optimal scalability and performance.

Legacy System Integration

- o Liaise closely with the Data and Integrations Architect to assess and design integration approaches for on-premises systems to work with cloud platforms.
- o Catalogue and evaluate legacy platforms to support gradual reduction of dependency, prioritizing business-critical services.

Stakeholder Engagement

- o Build and maintain relationships across all levels of the organization, collaborating on technical and business requirements.
- o Engage with diverse stakeholders, managing their expectations and flexibly adapting to their feedback to reach collaborative, secure solutions.
- o Translate complex technical solutions into business language for non-technical stakeholders.

Leadership and Mentorship

- o Lead could & infrastructure technical projects, including requirement analysis, design, testing, and service transition
- o Mentor wider Technology Team colleagues for cloud and infrastructure technologies to enhance team capabilities.

Innovation and Strategic Development

- o Research emerging trends in hybrid infrastructure and apply innovations to improve service delivery.
- o Leverage monitoring, analytics, and infrastructure insights to identify areas for improvement, drive decision-making, and optimize resource utilization.

Sustainability and Risk Management

- o Develop environmentally sustainable infrastructure strategies in line with the university's green initiatives.
- o Support business continuity planning, ensuring robust hybrid solutions to mitigate risks.

Continuous Improvement and Collaboration

- o Support teams in hybrid architecture practices and contribute to a culture of innovation and collaboration.
- o Collaborate on network redesigns and campus infrastructure to support smart

campus initiatives, such as geo-location services and IoT integration.

Security by Design

- o Design and implement secure, robust cloud infrastructure solutions, incorporating advanced security controls to protect against threats, in close collaboration with key stakeholders.

- o Working closely with the Identity and Security Architect, demonstrate a good understanding of cloud security architectures and apply technical knowledge to ensure that infrastructure designs meet security standards and regulatory compliance.

Broader Duties and Responsibilities

- o Perform any other duties commensurate with the job grade as reasonably required from time to time.

- o Act in accordance with DMU Values:

    - Collaborative – Work together to achieve joint outcomes, understand how your work contributes to DMU, and be aware of your personal impact on others.

    - Compassionate – Be open, honest, and caring, work on a basis of trust, and hold yourself accountable for your actions.

    - Creative Strive for better, challenge bureaucracy, explore digital solutions, and innovate creatively.

    - Community minded - Embrace alternative views, treat others with respect, and tackle inequalities.

- o Treat all DMU staff, students, contractors and visitors with dignity and respect. Provide a service that complies with the Equality Act 2010, eliminating unlawful discrimination, advancing equality of opportunity and fostering good relations with particular attention to the protected characteristics of age, disability, gender reassignment, marriage and civil partnership, pregnancy and maternity, race, religion or belief (or none), sex and sexual orientation.

- o All members of staff are responsible for their contribution to improved environmental performance and in reducing greenhouse gas emissions at DMU. It is therefore required that all members of staff are aware of how the Environmental Policy relates to their own role at the University. Staff conduct must reflect the values inherent in the Environmental Policy and where required staff must cooperate with environmental compliance and conformance requirements to help minimise our emissions to air, water and land.

- o The postholder should have a positive attitude towards health and safety and be aware of and comply with all health and safety policies for the university, as applicable. There will be a requirement to complete all mandatory health and safety training as deemed to be relevant for the position held. The postholder is expected to help maintain a safe working environment for staff, students and visitors by working closely with the local safety co coordinator as required. Any accidents or dangerous incidents must be reported promptly through the university's reporting system.

Person Specification

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Directorate: Digital and Technology　　　　　**Job Family: Technology**

Grade: G　　　　　　　　　　　　　　　　**Role profile: TSG1**

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Area of responsibility	Requirements	Essential or desirable		*Method of assessment			
				A	I	T	D
Qualifications & Training	Degree in a related field (e.g. Computer science or IT Management) or equivalent relevant work experience	Essential		X			X
	Relevant Public Cloud Service Provider expertise/ certifications in cloud infrastructure disciplines, Ideally MS Azure	Essential		X			X
	Relevant industry qualification, for architecture practice e.g., Public Cloud Architecture, TOGAF or alternative architecture discipline		Desirable	X			X
	Relevant additional technical expertise / certification, e.g. VMware, Microsoft, NetApp, IT Security, Database		Desirable	X	X		
	Additional IT Infrastructure technologies, Enterprise Storage Backup technologies, databases, & T Security		Desirable	X	X		
Previous Work Experience	Extensive experience in designing and implementing hybrid cloud and on-premises infrastructure solutions, including assessment and documentation of existing infrastructure landscapes.	Essential		X	X	X	
	Extensive experience in managing and maintaining complex IT platforms, pipelines, and infrastructure, servers(Windows/Linux), Virtualization (VMware) storage, security) in a large-scale, business-critical environment.	Essential		X	X		
	Proficiency in modern infrastructure technologies, including virtualization, containerization or serverless.	Essential		X	X		
	Experience optimising hybrid cloud environments for cost, security, and efficiency	Essential		X	X		

	Experience of working within Higher Education sector		Desirable	X	X		
Specific Knowledge/Skills/Abilities/ Motivation/ Attitude Required	Strong understanding of hybrid cloud principles, including public, private, and multi-cloud environments.	Essential		X	X		
	In-depth knowledge of cloud security architectures, including secure design principles, encryption, identity and access management, and network security within cloud environments.	Essential		X	X		
	Ability to design solutions that balance operational continuity and digital transformation.	Essential		X	X	X	
	Excellent analytical skills for evaluating complex systems and driving strategic improvements		Desirable	X	X		
	Expertise in embedding security by design within architectural principles, ensuring solutions are secure, resilient, and adaptable to evolving university needs and long- term strategic objectives.	Essential		X	X		
	Ability to gather, analyse, and leverage relevant security data, trends, and metrics to support informed decision-making and enhance security services.	Essential		X	X		
	Able to communicate effectively and with accuracy, in oral and written formats, adapting style to the needs of technical and non-technical audiences	Essential		X	X		
	Ability to lead cultural change to promote hybrid solutions within an organization	Essential		X	X		
Equality and diversity	Able to provide a service to a diverse range of people to promote good relations and equality	Essential		X	X		
Out of hours	Willingness to provide out-of-hours support, ensuring the continuity and stability of platform services during critical periods or emergencies, with a focus on maintaining uptime and service availability.	Essential			X		
Our Values and Behaviours at DMU							
We are Collaborative – we work together to get things done	We support each other to achieve joint outcomes We understand how our work contributes to DMU We are aware of our personal impact on others	Essential			X		

			A	I	T	D
We are honest and Compassionate	We are open, honest and caring We work on a trust basis We hold ourselves accountable for our actions	Essential		X		
We are innovative and Creative	We constantly strive for better We challenge bureaucracy and explore digital solutions We are innovative and creative	Essential		X		
We are a community – we value and champion difference	We embrace alternative views We treat others with respect We tackle inequalities	Essential		X		

*A = Application Form; I = Interview; T = Test; D = Documentary Evidence