Cloud Infrastructure Officer	
Reference No:	0294-19
Reports to:	Cyber Security Architect & Interim Infrastructure Lead
Responsible for:	Cloud based infrastructure design and management
Grade:	Grade E
Working Hours:	37 hours for nominal purposes – 2 years fixed term
Faculty/Service:	Technical Services
Location:	St Peter's Gate
Main Purpose of Role:	Act as 'Domain Expert' in Cloud based infrastructure, design and solutions working within a multi-disciplined team along with members of the Service Management team in releasing solutions into production.
Day to Day Duties	• Take the lead in designing, developing and delivering high levels of cloud infrastructure configurations. • Take a lead in developing the effectiveness and efficiency of cloud environments. • You will be delivering both large and small IT changes, including the development, deployment and testing of new cloud applications, platforms and digital services that are in sync with the University and departmental strategy, standards and principles. • Explore, develop and integrate new ways of provisioning infrastructure such as the use of automation and orchestration tools, as well as the development of emerging technologies such as containers and severless computing. • Be technically fluent with scripting languages, web services or other appropriate technical skills. • Implementing a broad variety of complex technical, operational and problem-solving activities for Cloud applications and infrastructures. • Mentoring and development of other colleagues with the view of building a high level of service to our variety of customers across the University.
Specific Duties	• Takes responsibility as the technical lead for the operational management of large scale compute migrations from our on-premises environment to our new Azure cloud environment as part of large scale data center zero project. • Takes responsibility as the technical lead for the operational management of large scale rationalisation and reduction works to reduce the onsite compute estate of the University. • Manage and coordinate the cloud infrastructure elements of future IT service delivery. • Ensure the continuous improvement of customer experience and customer satisfaction within the University, through development and application of fit for purpose cloud based data-centers including networking, storage, database, server and desktop solutions to agreed standards.

	- Develop, draft and maintain procedures and documentation for ensuring the delivery, maintenance and development of the IT provision to the University with specific focus on our cloud environments.
	- Provide SME support and guidance to the IT operations teams across the service to ensure agreed service levels are met and all relevant procedures are adhered to.
	- Work within the team to schedule and oversee all relevant maintenance and instillation works.
	- Provide input to service continuity and recovery planning and implement and test resulting plans.
	- Contribute to the assessment of threats to CIA (Confidentiality, Integrity, and Availability) across the Universities infrastructure, both cloud and on premises. Take part in security control reviews, business risk assessments, and reviews that follow audit findings or breaches of security controls.
	- Identify new and emerging technologies and products based on own area of expertise, and assess their relevance and potential value to the University.
	- Takes responsibility for the IT infrastructure components lifecycle (design, procurement, installation, maintenance, operation) and ensures and monitors their effective use and performance.
	- Maintains applicable technical skills and awareness to ensure IT operations are assured and alternatives can be analysed and modelled.
	- Takes responsibility and technical management of changes to the IT infrastructure to ensure changes are carried out in accordance with operational priorities.
	- Develops infrastructure implementation plans and leads on operational commissioning, at all stages of the lifecycle process.
	- Optimises efficiency in physical IT estate delivering tangible benefits to University energy management.
	- Maintain an operational overview of IT capacity status and inform senior management of escalating changes.
	- Monitors the market to gain knowledge and understanding of currently emerging technologies.
Supporting Customers and Stakeholders	- To provide authoritative guidance and leadership regarding responses to technical or detailed enquiries relating to University Technology issues, and to proactively identify areas of required development.
	- To liaise with all stakeholders and non-technical staff across the University on day-to-day technology matters and development activities.
	- Assist with the overall development of the department and assist in the continuous improvement of a customer-centric

	team who demonstrate shared values and commitment to University objectives. • Work with colleagues and customers across the University to deliver a business led IT Architecture, IT Operations Management and Information Security, providing authoritative advice on best practice, delivering technical solutions needed to meet the strategic and operational business objectives of the University's departments.
Contribution to Culture	To influence and nurture a culture in the service which supports University and University Technical Service priorities, including: customer centricity; taking ownership; embracing change; strong communication; innovation; inclusiveness; collaboration and team working.
Experience (Essential)	• Demonstrable experience of working within an enterprise level IT environment. • Worked using a formal approach to customer requirements and operational changes. • Worked with colleagues and customers on complex initiatives to ensure positive outcomes for business critical activities. • Experience with many extant technologies and history of learning and adapting to new technologies. - In-depth technical operational experience with Public cloud environments such as Azure and AWS. - Demonstrable practical knowledge of scripting and automation techniques with specific focus on use within Public cloud environments. - Experience of working with IaaS, PaaS and BDRaaS services - Understanding of DevOps toolsets, frameworks and best practises. - Experience of developing and delivering technical specifications and design documents. - An ability to deal with complex and often competing demands. - Highly developed IT skills. - An ability to solve complex problems based upon past experience and independent investigative analysis. - Experience of working with contractors and consultants managing the relationship to deliver to within projects and Business As Usual.
Experience (Desirable)	• Experience of working with Linux and Solaris server operating systems. • Experience of working with traditional virtualisation technologies such as VMware

	• Experience of working with and understanding enterprise network technologies.
Qualifications (Essential)	• First degree or professionally recognised equivalent vocational qualification OR equivalent experience. • Public cloud qualifications such as (AZ-500 Azure Fundamentals, AZ-1003 Azure Administrator (Basic), AWS Cloud Practitioner)
Qualifications (Desirable)	• AZ-301 – Azure Architect • AZ-500 – Azure Security • AWS Solution Architect (Associate) or (Professional) • AWS Security Specialist
Special Circumstances	Work outside of normal hours, at weekends and during Public and University holidays may be required from time to time.