

Post Title:	DBA - Senior Engineer
Grade:	7
Mode:	Full Time
Reference Number:	

Job Description

2.1. Purpose

The DBA - Senior Engineer will develop, support and manage database products and services deployed on behalf of the University Group.

The DBA - Senior Engineer supports the day to day operation, security and delivery of our database services. They will develop and support products and services that are efficient, secure, perform optimally and are aligned to business goals and objectives.

The post holder will support the maintenance of configuration data, capacity planning, service availability and continuity for database services.

2.2. Main Duties and Responsibilities

1. Supports the development and maintenance of procedures and documentation for databases. Identifies, evaluates and manages the adoption of appropriate database administration tools and processes, including automation. Contributes to the setting of standards for definition, security and integrity of database objects and ensures conformance to these standards.
2. Manages database configuration including installing and upgrading software and maintaining relevant documentation. Monitors database activity and resource usage. Optimises database performance and plans for forecast resource needs.
3. Monitors database component capacity and initiates actions to resolve any shortfalls according to agreed procedures. Applies techniques to control the demand upon a particular resource or service. Contributes to capacity modelling and planning.
4. Provides technical expertise to enable the correct application of operational database procedures. Uses database management tools to determine load and performance statistics. Contributes to the planning and implementation of database maintenance and installation work.
5. Develops and maintains specialist knowledge of database and data warehouse concepts, design principles, architectures, software and facilities. Assesses proposed changes to object/data structures, in order to evaluate alternative options. Implements physical

database designs to support transactional data requirements for performance and availability. Implements data warehouse designs that support demands for business intelligence and data analytics.

6. Actively maintains proven knowledge in database administration. Provides detailed and specific advice regarding the application of database technologies. Recognises and identifies the boundaries of their database knowledge.
7. Explains the purpose of and provides advice and guidance on the application and operation of elementary physical, procedural and technical security controls for database technologies. Performs security risk, vulnerability assessments, and business impact analysis for database systems. Uses forensics where appropriate.
8. Provides advice and guidance to support adoption of database methods and tools and adherence to policies and standards. Tailors processes in line with agreed standards and evaluation of methods and tools. Reviews and improves usage and application of methods and tools.
9. Ensures that appropriate action is taken to anticipate, investigate and resolve problems in database systems and services. Analyses patterns and trends.
10. Manages aspects of the product lifecycle enabling the product to meet the needs of customers/users and achieve financial or other targets. Acts as product owner for one or more lower-value database products or services; prioritises product requirements and owns a product backlog.

Deputises for the Systems - Manager as required.

AND such other duties as are within the scope of the spirit of the job purpose, the title of the post and its grading.

2.3. Supervision Received

Line management is from the Systems - Manager.

2.4. Supervision Given

None.

2.5. Contacts

- IT Services staff, including Executive Team.
- Staff and students in other Schools / Support Areas of the University Group.
- External Suppliers and other education institutions.

3. Person Specification

ATTRIBUTES	ESSENTIAL	ADVANTAGEOUS
<i>Education & Qualifications</i>	<ul style="list-style-type: none"> Educated to degree level in a relevant discipline or substantial experience in related field in lieu of the above. 	<ul style="list-style-type: none"> Postgraduate or professional qualification in a relevant discipline, or chartered member. OCP. MCSE (Data Management and Analytics). ITIL. CISSP.
<i>Knowledge & Experience</i>	<ul style="list-style-type: none"> Experience of database administration. Experience of Oracle Database Administration. Experience of SQL Server Administration. Experience of using SQL. 	<ul style="list-style-type: none"> Higher Education experience.
<i>Job-related Skills, Abilities & Competencies</i>	<ul style="list-style-type: none"> Proven analytical, planning and execution skills. Proven leadership and management skills with the ability to develop, communicate and inspire staff. Takes accountability and has strong sense of ownership. Results oriented and a commitment to a high quality customer service Ability to build and maintain broad network of business relationships. Knowledge of customer behaviours, needs and expectations. Good understanding of current and emerging technologies and how other enterprises are employing them to drive digital business support. Backup & Recovery strategies. Database performance tuning. OLTP and data warehouse design 	<ul style="list-style-type: none"> Public cloud infrastructure. Microsoft Azure. Amazon Web Services.

	<p>and operation.</p> <ul style="list-style-type: none"> • Cyber-security within database technologies. 	
<i>Interpersonal Skills</i>	<ul style="list-style-type: none"> • Able to influence and negotiate at appropriate levels and also where resources may not be in direct control of this role. • Proven communication, and presentation skills. • Ability to forge effective relationships in a complex matrix management environment. • Results oriented, adaptive and decisive. • Ability to build trust and display integrity. • Ability to work collaboratively and be a key team player. • Creative and innovative thinking. • Can resolve conflicts and problems. 	
<i>Other Requirements</i>	<ul style="list-style-type: none"> • A flexible approach to working hours and location, including a willingness to travel, locally, nationally or overseas, as required. • An appreciation of other cultures; the global reach of the University Group and its international agenda. • Ability to work flexibly and extended hours by agreement to meet tight, fixed deadlines or as required by service imperatives. • Requirement to work on call in order to facilitate the 24*7 support demands of a global organisation. 	