

Position Title	Data Engineer
Group/Portfolio	Digital Solutions
Classification	HEW 8
Position Number	00062657
Reports To	Product Manager - Data & Analytics Platforms
Employment Type	Fixed Term

1.0 Position Purpose

Digital Solutions is a value-driven strategic IT partner focused on delivering leading digital experiences for our Students, Colleagues and Community. We work within a contemporary operating model and are modernising our technologies and ways of working to create value and build a digital future for Griffith.

The Data Engineer supports the University's capture, manipulation and presentation of data through the University's data warehouse and/or other data platforms. They provide skills in data integration and business intelligence to enable reporting and analysis for a wide range of internal and external stakeholders. They understand data integration technologies; working to model, execute and manage data integration practices that ingest, transform and provision data across various sources into an organised and unified view. They build, manage and optimise data pipelines and then move these into production for key data and analytics consumers. They ensure compliance with data governance and data security requirements to enable faster data access, integrated data reuse and vastly improved time-to-solution for data and analytics solutions.

2.0 Eligibility Requirements

- The occupant of this position will hold relevant postgraduate qualifications or progress towards postgraduate qualifications and extensive relevant experience or an equivalent combination of relevant experience and/or education/training.

3.0 Key Responsibilities

- **Analytics:** Undertakes analytical activities and delivers analysis outputs, in accordance with customer needs and conforming to agreed standards.
- **Data visualisation:** Applies a variety of visualisation techniques and designs the content and appearance of data visuals. Operationalises and automates activities for efficient and timely production of data visuals. Selects appropriate visualisation approach from a range of applicable options. Contributes to exploration and experimentation in data visualisation.
- **Specialist advice:** Actively maintains knowledge in one or more identifiable specialisms. Provides detailed and specific advice regarding the application

of their specialism(s) to the organisation's planning and operations. Recognises and identifies the boundaries of their own specialist knowledge. Collaborates with other specialists, where appropriate, to ensure advice given is appropriate to the needs of the organisation.

- **Data management:** Takes responsibility for the accessibility, retrievability, security, quality, retention and ethical handling of specific subsets of data. Assesses the integrity of data from multiple sources. Provides advice on the transformation of data/information from one format or medium to another. Maintains and implements information handling procedures. Enables the availability, integrity and searchability of information through the application of formal data and metadata structures and protection measures. Manipulates specific data from information services, to satisfy defined information needs.
- **Programming/software development:** Designs, codes, verifies, tests, documents, amends and refactors complex programs/scripts and integration software services. Contributes to selection of the software development approach for projects, selecting appropriately from predictive (plan-driven) approaches or adaptive (iterative/agile) approaches. Applies agreed standards and tools, to achieve well-engineered outcomes. Participates in reviews of own work and leads reviews of colleagues' work.
- **Data modelling and design:** Investigates corporate data requirements, and applies data analysis, design, modelling, and quality assurance techniques, to establish, modify or maintain data structures and their associated components (entity descriptions, relationship descriptions, attribute definitions). Provides advice and guidance to database designers and others using the data structures and associated components.
- **Database design:** Provides expert guidance in the selection, provision and use of database and data warehouse architectures, software and facilities. Provides specialist expertise in the design characteristics of database management systems (DBMS) or data warehouse products/services. Ensures that physical database design policy supports transactional data requirements for performance and availability. Ensures that data warehouse design policy supports demands for business intelligence and data analytics.
- **Release and deployment:** Leads the assessment, analysis, planning and design of release packages, including assessment of risk. Liaises with business and IT partners on release scheduling and communication of progress. Conducts post release reviews. Ensures release processes and procedures are applied and that releases can be rolled back as needed. Identifies, evaluates and manages the adoption of appropriate release and deployment tools, techniques and processes (including automation).
- **Application support:** Maintains application support processes, and checks that all requests for support are dealt with according to agreed procedures. Uses application management software and tools to investigate issues, collect performance statistics and create reports.
- Support compliance with relevant legislation and University policies and procedures, including equity and health & safety and exhibit good practice in relation to same.
- Be a leading example of the principles and values embodied in the University's Code of Conduct, and behave, act and communicate at all times to reflect fairness, ethics and professionalism.

4.0 Key Capabilities

- Griffith University identifies the attributes of resilience, flexibility, creativity, digital literacy and entrepreneurship as critical to our graduates' success, in the rapidly changing future world of work. We have established a Griffith University Capability Development Framework to provide a common language of some of the non-technical organisation skills that will support our staff to thrive now and into the future. The Capability Development Framework will assist you to understand the current skill level of this position in the non-technical but critical skill domains that are increasingly important in a changing workplace context.

To read about some of the non-technical organisation skills for this position, please see the Leads Self section of our [Capability Development Framework](#).