Position Description

Data Warehouse Developer

Office of Planning and Analytics

Division of Information Technology

Classification	Level 7
Special conditions	N/A
Workplace agreement	Charles Sturt University Enterprise Agreement
Date last reviewed	26th August 2024

Office of Planning and Analytics

The Office of Planning and Analytics leads the strategic development of the University's business intelligence and analytics requirements to enhance the University's overall performance and support effective planning and decision making.

The team is responsible for the development of a range of data assets and information products to support insight and decision making and provide business intelligence, information analysis, compliance reporting and load planning services.

Organisational chart
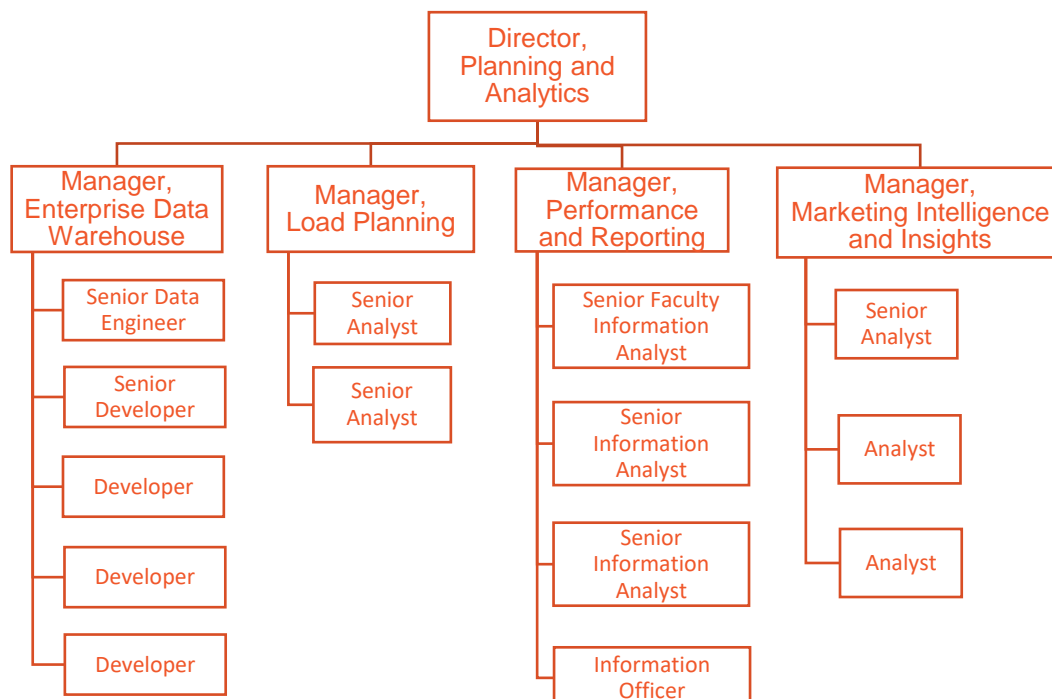
Reporting relationship

This position reports to: Manager, Enterprise Data Warehouse

This position supervises: N/A

Key working relationships

- Office of Planning and Analytics
  - Enterprise Data Warehouse team
  - Performance and Reporting team
  - Load Planning team
  - Marketing Intelligence and Insights team
- Division of Information Technology
- Division of Learning and Teaching
- Division of Student Administration

Position overview

The Enterprise Data Warehouse Developer is located within the Office of Planning and Analytics. This role is responsible for the design, development and maintenance of data structures underpinning the University's enterprise data warehouse and analytics solutions.

Utilising industry best practice and principles, the incumbent will liaise with analysts and external stakeholders to ensure quality and reliability of data assets and provide technical support to analysts in the Performance and Reporting team and wider CSU community.

Principal responsibilities

Enable the development of CSU's enterprise data warehouse capability by:

- Contributing technical expertise in the analysis and development of CSU's enterprise data warehouse and broader analytics capability, maintaining current knowledge of best practice techniques and technologies, and providing appropriate advice and recommendations to the Office.

- Contribute to the development and maintenance of technical documentation and product metadata.

- In collaboration with the Manager, Enterprise Data Warehouse, contributing to the development of CSU development standards, and peer reviewing activities within the team to ensure adherence to best practice and CSU's standards.

- Maintaining CSU's enterprise data warehouse architecture by:

  - Implementing a Kimball-oriented data warehouse architecture and self-service analytics environment, including integration, data and technical architecture, and appropriate levels of documentation, to ensure coherence, reliability, scalability, and performance; and

- Monitoring CSU's data warehouse and analytics environment, applications and forecasting toolsets, troubleshooting issues, and liaising with data stewards and service providers to resolve problems as they arise.

- Building effective working relationships with key stakeholders to identify information, technical requirements, and quality processes to ensure consistency and accuracy of information contained within the data warehouse.

- Consistently embody the University's values in behaviour and decision-making, while encouraging inclusivity and collaboration to foster a safe and respectful work environment.

- Partner with Office and Planning and Analytics teams to improve the institutions data and analytics capabilities, through engagement with and application of industry best practice and continual improvement cycles.

- Other duties appropriate to the classification as required.

Required capabilities

This section comprises capabilities from the Charles Sturt Capability Framework. Read the Framework for more detail regarding these capabilities.

Capability	Capability Definition	Level of influence
Innovates		
Navigates Complexity	Adjusts and responds effectively to new or unexpected situations, challenges, or opportunities whilst developing strategies to manage wellbeing in a challenging environment.	Influence self
Creates Innovative Solutions	Uses methodologies that open up creative thinking and transform ideas into actionable plans and strategies. Reflects on outcomes and drives ongoing improvement.	Influence self
Optimises Digital Environment & Data	Builds own knowledge of new technologies, adopts appropriately and uses data to draw insightful conclusions.	Influence self
Achieves		
Plans and Prioritises	Effectively plans and aligns priorities with strategy. Effectively allocates and utilises resources to achieve goals.	Influence self
Optimises Outcomes	Consistently achieves desired results as evidenced through measurement. Recognises accomplishments by praising achievements and sharing success stories to promote learning.	Influence self
Enablers		
Utilises Technology Effectively	Builds capability in relevant technologies, complies with security obligations and addresses the ethics of technology use to minimise risk.	Influence self

Physical capabilities

The incumbent may be required to perform the following:

- Work in other environments beyond your base campus, such as other campuses.

- On occasion drive a vehicle up to 500km per day within the terms of the university's Driver Safety Guidelines

- Perform work for prolonged periods of time seated at a computer desk.

Selection criteria

Applicants are expected to address the selection criteria when applying for this position.

Essential

A. A degree in an information technology (IT) or related discipline, normally with at least four years' subsequent relevant experience to consolidate and extend the theories and principles learned; or extensive experience and specialist expertise; or an equivalent level of knowledge gained through any other combination of education, training and/or experience.

B. Demonstrated experience in delivering high quality enterprise data warehouse and analytics solutions, including design and development of complex ETL using transformation tools such as Azure Data Factory/SSIS, dbt, SQLMesh or similar.

C. Strong knowledge of SQL (any flavour), with the ability to undertake complex SQL problems.

D. Familiarity with cloud computing concepts, including data lakes and analytics services such as Microsoft Azure Synapse/Fabric, Google BigQuery, Snowflake or similar.

E. Familiarity with modern collaboration and project management tools and concepts including Git, Confluence and Jira. Experience with CI/CD practices a bonus.

F. Demonstrated high level of analytical and problem-solving skills, including high level oral and written communication skills with the ability to communicate with all levels in a large complex organisation.