Position Title	Senior Business Intelligence Data Engineer
Classification	Level 8
School/Division	University IT
Centre/Section	Strategy and Architecture
Supervisor Title	Manager, Business Intelligence & Analytics
Supervisor Position Number	317941
Position Number	NEW

Your work area

UWA is making significant investments in the Information and Technology Services to enable its strategic direction and goals. UWA is also looking to utilise technology advancements to expand its services and create new and innovative teaching and research models.

Robust, flexible, integrated and agile enterprise architecture, information and technology services are vital to enabling the university strategic objectives.

Reporting structure

Reports to: Manager, Business Intelligence & Analytics

Your role

As the appointee you will, under broad direction, lead the day-to-day support of data management, governance and pipeline activities. You will recommend and implement best practice ETL and ELT solutions in conjunction with the team and mentor junior team members. You will automate and improve processes where possible and guide other team members towards more efficient and robust practices. You will also investigate data platform environment issues, coordinate solutions in conjunction with IT administration and cybersecurity, and engage with a variety of vendors.

Your key responsibilities

Design, develop and maintain data administration, migration, integration, transformation, and loading procedures, overseeing automation implementation and other efficiencies where possible.

Develop, define, and maintain data structures in alignment with data governance requirements.

Liaise with stakeholders as required to determine business requirements, and manage vendor support of the cloud architectural environment when required.

Establish and implement cybersecurity requirements based on recommendations from vendors and UWA's Cybersecurity team.

Establish processes and utilities to streamline standard coding practices.

Analyse data from a variety of data sources, including API's, IoT devices, standard DBs.

Implement modern BI technologies such as MS Fabric, Lakehouse technology, and AI / ML.

Lead data profiling and discovery on data sets to define, validate, determine value, and note possible use cases for the data to solve business problems.

Manage documentation for Business Intelligence processes.

Other duties as required.

Your specific work capabilities (selection criteria)

Relevant tertiary qualification or demonstrated equivalent competency in information technology or computer science.

Extensive experience with a variety of ETL and analytics tools with the ability to learn and implement new tools as required.

Extensive experience with cloud technologies, Agile working methodologies, Azure BI Stack, Azure DevOps, Databricks, SQL, and Python and demonstrated knowledge of modern programming languages such as Scala, R.

Extensive experience in defining and developing data structures and models, with demonstrated knowledge of traditional Data Warehouse design methodologies such as Kimball and/or Inmon.

Extensive experience in coordinating BI architectural support for vendor and cybersecurity requirements.

Demonstrated knowledge of and the ability to implement best practice data encryption and cybersecurity practices regarding Personally Identifiable Information data.

Excellent interpersonal, verbal and written communication skills with the ability to communicate complex information in an easily digestible format to stakeholders at all levels.

Excellent organisational skills with the demonstrated ability to set priorities and to meet deadlines.

Ability to work independently, show initiative, problem solve and work productively as part of a team.

Working knowledge of the Higher Education sector is desirable.

Special requirements (selection criteria)

Occasional weekend work.

Some after-hours work may be required.

Compliance

Ensure you are aware of and comply with legislation and University policies.

To learn more about the Code of Conduct, see Code of Conduct.

To learn more about Diversity, Equity and Inclusion, see Diversity, Equity and Inclusion.

To learn more about Safety, Health and Wellbeing, see Safety, Health and Wellbeing.