

Position description

Greater together 

Position title:	Developer, Data Engineer
Institute/School/Centre/ Directorate/VCO:	Information Technology Services
Campus:	Mt Helen or Berwick Campus. Travel between campuses may be required.
Classification:	Within the HEW Level 7 range
Time fraction:	Full-time
Employment mode:	Fixed-term employment
Reason for fixed term:	Specific task or project
Probation period:	This appointment is offered subject to the successful completion of a probationary period.
Further information from:	Dr Raj Das, Team Leader, Enterprise Data Telephone: (03) 5122 8947 Email: r.das@federation.edu.au
Recruitment number:	JR101188

Position summary

The Developer, Data Engineer ensures the ongoing management and development of the University's Data Infrastructure by managing data pipelines that generate high quality data assets that are aligned to the University's Data Reference Model. The Developer, Data Engineer supports the usage of data by analytical, reporting and integration stakeholders across the University.

The Developer, Data Engineer acquires, models, process and ingests data from multiple external sources and operational systems into the University's Data Infrastructure applying standards and conformance to Data Governance policies.

Portfolio

Information Technology Services (ITS) strives to be an innovative and reliable partner to the University, engaging all areas of the business in a collaborative and adaptable approach. ITS provides dependable services, whilst ensuring excellence in what we do, with quality and integrity.

Comprising of several cross-functional teams supported by an underpinning service support layer and governed by an overall strategic services and business solutions framework, ITS ensures that investment in technology is fit for purpose and benefits the University.

Background

At Federation University, we are driven to make a real difference to the lives of every student, and to the communities we serve.

We are one of Australia's oldest universities, known today for our modern approach to teaching and learning. For 150 years, we have been reaching out to new communities, steadily building a generation of independent thinkers united in the knowledge that they are greater together.

Across our University and TAFE campuses in Ballarat, Berwick, Gippsland, and the Wimmera, we deliver world-class education and facilities. With the largest network of campuses across Victoria, we are uniquely positioned to provide pathways from vocational education and skills training at Federation TAFE through to higher education.

To be successful at Federation University you must be willing to enthusiastically embrace the University's ambition as expressed in the 2021–2025 University Strategic Plan and share the University's values of:

INCLUSION, we celebrate our diversity, particularly valuing Aboriginal and Torres Strait Islander cultural heritage, knowledge and perspectives.

INNOVATION, we are agile and responsive to emerging opportunities.

EXCELLENCE, we act with integrity and take responsibility for achieving high standards.

EMPOWERMENT, we create a supportive environment to take informed risks in pursuit of success.

COLLABORATION, we establish genuine partnerships built on shared goals.

Key responsibilities

1. Develop and manage the University's Data Infrastructure by implementation and optimisation of data pipelines and assets that are housed in the Data Infrastructure and that conform to and extend upon the University's Data Reference Model. Modelling data ready for integration, reporting and analytical purposes.
2. Collaborate with strategic project teams and business stakeholders across the University to ensure that data assets meet business needs and are of a high quality and establish the Data Infrastructure as single source of truth for integration, reporting and analytical purposes.
3. Monitor and ensure the data pipelines populating the Data Infrastructure are working reliably, effectively and without impact on operational systems. Acting promptly in the event of pipeline failure to minimise impact on business services leveraging the Data Infrastructure.
4. Contribute technical advice and guidance relating to data governance and the data requirements of users and systems. Work as an individual or as part of a team in the planning, architecture and development of data solutions to get the best outcome for the University.
5. Ensure data governance policy is applied to data assets via effective data management framework and processes. Including but not limited to data security, quality management, metadata management and master data management.
6. Ensure system processes, procedures and code are documented, source controlled and kept up to date in-line with current University processes and industry best practice.
7. Ensure that Data Infrastructure system development continues in a timely manner by undertaking customisations according to the scope and the schedule, advising the Manager of any potential deviations from the schedule.
8. Reflect and embed the University's strategic plan, and operational purpose, priorities, and goals.
9. Embed effective risk management practices to ensure continuous service delivery. Participate in training and exercises to remain prepared for potential disruptions.
10. Undertaking the responsibilities of the position adhering to:
 - the Staff Code of Conduct, Child Safe Code of Conduct, and Conflict of Interest Policy and Procedure;
 - Equal Opportunity and anti-discrimination legislation and requirements;
 - the requirements for the inclusion of people with disabilities in work and study;
 - Occupational Health and Safety (OHS) legislation and requirements; and
 - Public Records Office of Victoria (PROV) legislation.

Level of supervision and responsibility

The Developer, Data Engineer works under the broad direction of the Team Leader, Enterprise Data. The Developer, Data Engineer will have the ability to work independently or as part of a team where appropriate to deliver priorities within agreed timeframes. The position will develop or have a working knowledge and awareness of the structure and functions of the Institutes and Centres within the University, in particular the relevant users of the University's Data Infrastructure.

The Developer, Data Engineer is the subject matter expert in the University's Data Infrastructure and is required to analyse operational data systems, analyse and solve complex data problems and implement new functionality relating to the effective delivery of data assets. The position should maintain knowledge of relevant development toolsets, best industry practice and the software development lifecycle. The Developer, Data Engineer will apply initiative and creative thinking to improve and promote quality and performance.

Position and organisational relationships

The Developer, Data Engineer reports to the Team Leader, Enterprise Data, Information Technology Services and will be required to work with other ITS teams when required to meet data consumer needs.

The Developer, Data Engineer will be required to liaise with external vendors to support the University's Data Infrastructure. Additionally, they will be required to interact with key internal and external data consumers for data modelling and business suitability of data assets.

Key selection criteria

Applicants must demonstrate they are able to undertake the inherent responsibilities of the position as contained in the position description and are able to meet the following key selection criteria:

Training and qualifications

1. Completion of:
 - a degree in Information Technology or Computer Science with at least four years subsequent relevant programming experience; or extensive relevant experience and data management; or an equivalent combination of relevant experience and/or education and training.
2. Hold a valid Employer Working with Children Check (WWCC) or hold a current registration with the Victorian Institute of Teaching (VIT).

Experience, knowledge and attributes

3. Demonstrated experience in data management or integration, analysing data asset requirements and developing complex data pipelines to effectively satisfy data requirements for an organisation.
4. Demonstrated ability to write and optimise complex SQL queries and create efficient data extract/transform/load (ETL) programs and tasks for data transmission to enterprise data warehouse systems.
5. Demonstrated design skills and a high level of expertise in complex systems analysis, problem solving and design for development of solutions, consistent with business requirements.
6. Demonstrated ability to work with data tools, including Microsoft/Azure Data Tools, python and API management tools.
7. Demonstrated ability to read, contribute to and produce accurate and relevant documentation and code commenting in accordance with established technical standards.
8. Demonstrated project and time management skills, including the ability to manage competing priorities and project timelines.
9. Demonstrated proficient communication, interpersonal and negotiation skills, including proven experience and ability to work effectively in a team and contribute to a positive and safe workplace culture.
10. Demonstrated working knowledge and application of the Child Safety Standards.
11. Demonstrated knowledge and application of appropriate behaviours when engaging with children, including children with a disability and from culturally and/or linguistically diverse backgrounds.

The University reserves the right to invite applications and to make no appointment.

It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.