



Position Description – Data Engineer

Position Details

Position Title:	Data Engineer
College/Portfolio:	Operations
School/Group:	Data and Analytics
Campus Location:	Based at the City campus, however may be required to work and/or be based at other campuses of the University.
Classification:	Hew 7
Employment Type:	Continuing
Time Fraction:	1.0

RMIT University

RMIT is a multi-sector university of technology, design and enterprise. The University's mission is to help shape the world through research, innovation and engagement, and to create transformative experiences for students to prepare them for life and work. For more information on RMIT University follow the links below.

<https://www.rmit.edu.au/about>

<https://www.universitiesaustralia.edu.au/university/rmit-university/>

<https://www.rmit.edu.au/about/facts-figures>

Our three main campuses in Melbourne are located in the heart of the City, Brunswick, Bundoora and Point Cook, along with other Victorian locations. There are also two campuses in Vietnam (Hanoi and Ho Chi Minh City) and a centre in Barcelona, Spain. RMIT is a truly global university.

<https://www.rmit.edu.au/about/our-locations-and-facilities>

We are also committed to redefining our relationship in working with, and supporting, Indigenous self-determination. Our goal is to achieve lasting transformation by maturing our values, culture, policy and structures in a way that embeds reconciliation in everything we do. We are changing our ways of knowing, working and being to support sustainable reconciliation and activate a relationship between Indigenous and non-Indigenous staff, students and community. Our three campuses in Melbourne (City, Brunswick and Bundoora campuses) are located on the unceded lands of the people of the Woi Wurrung and Boon Wurrung language groups of the eastern Kulin Nation.

Why work at RMIT University

Our people make everything at the University possible. We encourage new approaches to work and learning, stimulating change to drive positive impact. Find out more about working at RMIT University, what we stand for and why we are an Employer of Choice.

<https://www.rmit.edu.au/careers>

We want to attract those who will make a difference. View RMIT's impressive standings in university rankings.

<https://www.rmit.edu.au/about/facts-figures/reputation-and-rankings>

College/Portfolio/Group

Office of the Chief Data & Analytics Officer supports and enables RMIT's business strategy by leading and driving the data and analytics agenda for the enterprise. This involves being accountable and responsible for:

- Developing and implementing RMIT's data and analytics strategy and ensuring ongoing alignment with university
- Defining requirements and standards for data and analytics technologies to be delivered by Information Technology
- Coordinating and governing data management activities for analytics and reporting
- Developing and coordinating advanced analytics capabilities to resolve key university challenges

Position Summary

The Data Engineer will have a primary focus on the preparation, maintenance and operation of pipelines that deliver datasets, that form the basis of analysis, dashboards, statistical analysis & modelling and data quality analysis. They will also participate in the delivery of: standards and practices for data architecture and engineering; data system design, development and operation; conceptual, logical and physical data modelling.

The Data Engineer will operate in a delivery squad working with Business Partners, Data Management Analysts, Data Analysts, Data Scientists. The Data Engineer will also be a participating member of a guild that develops Data Architecture and Engineering processes for the Data & Analytics team and other analytics teams.

Reporting Line

Reports to: Lead Data Engineer

Direct reports: 0

Organisational Accountabilities

RMIT University is committed to the health, safety and wellbeing of its staff. RMIT and its staff must comply with a range of statutory requirements, including equal opportunity, occupational health and safety, privacy and trade practice. RMIT also expects staff to comply with its policy and procedures, which relate to statutory requirements and our ways of working.

RMIT is committed to providing a safe environment for children and young people in our community. Read about our commitment and child safe practices. <https://www.rmit.edu.au/about/our-locations-and-facilities/facilities/safety-security/child-safety>.

Appointees are accountable for completing training on these matters and ensuring their knowledge and the knowledge of their staff is up to date.

Key Accountabilities

- Be a member of an agile delivery squad delivering data driven solutions for use across the University.
- Participate in the recommendation, design, implementation and operation of components / tools that enable data driven solutions, including data pipelines and cloud-based solutions.
- Participate in the development and adoption of standards and processes for data architecture and data engineering activities, utilising a DataOps approach.
- Work with stakeholders to translate a business problem into a data centric solution that displays appropriate concerns to meet functional, non-functional and commercial requirements.
- Maintain an understanding of the data aligned to the delivery team's area that is collected in a focussed set of applications, databases and data sources, and how the data can be best used to resolve business problems.
- Develop and operate data sets:
 - That support analytics, reporting & dashboarding, data science and integration to other sets and systems;
 - In an optimised pipeline that meets the Data Engineering standards and processes, including an automated refresh aligned to agreed triggers (time or event);
 - Including investigation and resolution of issues with the pipeline, including data anomalies;
 - That complies to the Data Governance standards, including aligning to term and metric definitions and to RMIT's Logical Data Model (LDM);
 - That adhere to the requirements for data set certification, and support certification of reports based on the dataset;
 - With registration of the metadata in RMIT's Enterprise Metadata Register; and
 - Support data quality and validation both through providing an understanding of the data and identifying instances of source data that are manipulated to comply to the dataset.
- Work on the ServiceNow queue for incidents, service requests, and enhancements, according to DataOps practices.
- Actively participate in team initiatives and projects and cooperate with team members in a manner that reflects commitment to team goals and objectives, effective communication, information sharing and problem-solving practices.
- Adhere with University policies, priorities and strategic initiatives to improve outcomes for the University.

Key Selection Criteria

- Proven experience working with multiple data sets and distributed computing tools.
- Demonstrated experience in the design, delivery and operation of data sets.
- Experience with agile (data) development and operations (DataOps) will be highly regarded.
- Experience with cloud approaches and capabilities will be highly regarded.
- Ability to design conceptual, logical and physical data models will be highly regarded.
- Extensive experience of data transformation languages such as SQL and Python.
- Experience with Snowflake, dbt, BitBucket and SageMaker will be highly regarded.
- Analytic capability, with the ability to integrate team efforts to achieve goals and overall program activities into the larger organisation.
- Strong communication and interactive skills

Qualifications

A tertiary qualification in a relevant discipline (Computer Science, Statistics, Mathematics, Engineering or related field).

Note: Appointment to this position is subject to passing a Working with Children Check and other checks as required by the specific role. Maintaining a valid Working With Children Check is a condition of employment at RMIT.

Endorsed:	Signature:	Approved:	Signature:
	Name:		Name:
	Title:		Title:
	Date:		Date: