

Directorate: ACT Education Directorate	Position Number: P72233
Division: Service Design and Delivery	Classification: ASO6
Business Unit: Digital Strategy, Services and Transformation	Location: Stirling
Position Title: Data Engineer	Last Reviewed: March 2026

DIRECTORATE OVERVIEW

The Education Directorate is responsible for early childhood education and care, and school education in the ACT. The Directorate provides school education services to children and young people both directly through public schools and indirectly through regulation of non-government schools and home education.

Our vision is that we will be a leading learning organisation where people know they matter. We focus on creating capable, resilient and active citizens by placing students at the centre, empowering learning professionals, building strong communities, and systems that support learning.

The Directorate is committed to building a culturally diverse workforce and an inclusive workplace.

BUSINESS UNIT OVERVIEW

Digital Strategy, Services and Transformation (DSST) Branch provides services to the Directorate in identifying, developing and managing appropriate information and technical resources for corporate and school staff. This includes managing and providing advice on records, copyright and ICT programs, teaching and learning systems, business and administration systems and relevant policies and procedures.

POSITION OVERVIEW

Working as part of the Data Insights Services (DIS) team, the role will apply technical skills to ingest, maintain, and optimise data in line with data governance requirements. The role will automate key data processes, improving efficiency across the education system and supporting digital data strategies that enable timely, evidence-based decision-making.

Through understanding the WhoG technology and data strategy, the role will ensure alignment and ongoing improvement with existing solutions and standards. The role will collaborate with key technical and business staff across the organisation to develop effective business solutions, building strong relationships within and beyond ACT Education to support the system's ongoing growth.

This is a growth-focused role that provides hands-on technical experience in Azure data services, SQL development, data modelling, and modern data platform tools. The position is ideal to apply best practices and contribute to a high-performing data insights function.

DUTIES / RESPONSIBILITIES

1. Assist the Data Insights Services (DIS) team within DSST branch in either existing or future data output, ingesting and analysing data, troubleshooting technical issues and ensuring reliable data availability across the Directorate.
2. Develop, maintain and optimise SQL scripts, stored procedures and database objects to support data transformations, data quality checks and operations processing requirements.
3. Participate in the design, development and enhancement of ELT processes, including preparing technical specifications, data models, documentation, and conducting unit testing to ensure end-to-end data accuracy and integrity.
4. Consuming APIs, converting data into various files/file formats for ingestion into the Education Directorate data lake.
5. Stay current with SQL best practices, data warehousing concepts, and Azure data services tools.
6. Provide support for ad-hoc data challenges or queries raised by business users.
7. Commitment to modelling and demonstrating the ACT Government Code of Conduct and leading safe work practices in accordance with the Directorate's Work Health and safety policies, procedures and responsibilities.

REQUIRED SKILLS

- Understanding of Data Vault and Dimensional data modelling concepts.
- Knowledgeable in Azure Data Services (Azure Data Factory, Azure Synapse Analytics).
- Ability to analyse data for accuracy, completeness, and meaningful insights.
- Clear written and verbal communication skills, especially when explaining data issues or requirements.
- Willingness to deepen data expertise and broaden technical capability (e.g., data modelling, particularly Data Vault methodology and BI tools).

HIGHLY DESIRABLE SKILLS

- Tertiary qualifications in IT, computer science or software engineering.
- Cloud platform experience (Azure preferred)
- Knowledge of Power BI

- Knowledge of ticketing systems (Jira preferred).

SELECTION CRITERIA

1. Demonstrated experience proactively supporting data operations, including the design, development, and maintenance of data solutions. Proven ability to develop and optimise SQL queries, stored procedures and database objects, with a sound understanding of relational databases, data structures and common modelling approaches (e.g., Data Vault, SCD and dimensional modelling)
2. Shows strong willingness and capability to learn new tools and technologies to support data ingestion, transformation, and optimisation activities.
3. Proven capability to investigate and resolve data issues, identify root causes and contribute to practical and sustainable solutions. Demonstrated keen interest in understand business information needs and translate them into technical tasks, data queries, or enhancements to data processes.
4. Demonstrated ability to work effectively within a multidisciplinary team and engage with technical and non-technical stakeholders. Strong interpersonal and communication skills, including the ability to explain data concepts clearly and contribute positively to team goals.
5. Demonstrated commitment to professional integrity, collaboration, and delivering high-quality work in support of ACT Education's objectives and service to the community.

OTHER REQUIREMENTS

- To be eligible for employment you must hold a current Australian visa with work rights or be an Australian citizen or permanent resident.
- Prior to commencing this role, a current registration issued under the Working with Vulnerable People (Background Checking) Act 2011 is required. For further information on Working with Vulnerable People registration refer to - Apply for or renew a WWVP registration - Access Canberra (act.gov.au)

WORK ENVIRONMENT DESCRIPTION

The following work environment description outlines the inherent requirements of the role of Data Engineer (position number PN72233) and indicates how frequently each of these requirements would be performed. Please note that ACTPS is committed to providing reasonable adjustment and ensuring all individuals have equal opportunities in the workplace.

ADMINISTRATIVE	FREQUENCY
Telephone use	Occasionally
General computer use	Frequently
Extensive keying/data entry	Occasionally
Graphical/analytical based	Occasionally
Sitting at a desk	Frequently

Standing for long periods	Occasionally
Designated workstation	Frequently

STANDARD HOURS	FREQUENCY
Flexible working hours (access to flex time)	Never
Fixed or specified start/finish times	Never
Expected to work extensive hours over a significant period due to the nature of the duties	Occasionally
Access to Accrued Days Off (ADO's)	Never
Peaks and troughs	Occasionally
Frequent overtime	Occasionally
Rostered shift work	Never

SOCIAL DEMANDS	FREQUENCY
Work with others towards shared goals in a team environment	Frequently
Work in isolation from other staff (remote supervision)	Occasionally
Working in a call centre environment	Never
Working directly with the public	Occasionally

PHYSICAL DEMANDS	FREQUENCY
Distance walking (large buildings or inter-building transit)	Occasionally
Working outdoors	Occasionally

MANUAL HANDLING	FREQUENCY
Lifting 0 – 5kg	Occasionally
Lifting 5 – 10kg	Occasionally
Lifting 10kg+	Occasionally
Climbing	Never
Reaching	Occasionally
Bending/squatting	Occasionally
Push/pull	Occasionally
Sequential repetitive movements in a short amount of time	Occasionally

TRAVEL	FREQUENCY
Frequent travel – multiple work sites	Occasionally
Frequent travel – driving	Occasionally
Frequent travel – interstate	Occasionally

SPECIFIC HAZARDS	FREQUENCY
Working at heights	Never
Exposure to extreme temperatures	Never
Operation of heavy machinery e.g. forklift	Never
Confined spaces	Occasionally
Excessive noise	Never
Low lighting	Occasionally
Handling of dangerous goods/equipment	Never
Working with asbestos	Never

Potential to encounter agitated customers	Never
Exposure to potentially distressing case material	Never

OTHER	FREQUENCY
Uniform required	Never
Personal Protective Equipment (PPE) required	Never