

Land Transport Authority

Job Description

Date:		September 2026	Position Title	Principal GIS/Information Analyst
Division:		Executive Division	Classification Level	G7/S1- G8/S7 \$46,427.77 - \$72,601.93 p.a
Reports to:		Chief Executive Officer		
Primary Objective				
	The GIS/Data Analyst will play a key role in mapping public bus routes and conducting data-driven analysis to support the development of a structured public transport scheduling program and safe public transport . This position will also serve as the focal point for executive data collation, monitoring, and evaluation , ensuring data insights drive informed decision-making within the Land Transport Authority.			
Key Responsibilities				
1	Public Transport Mapping & Analysis: - Develop and maintain GIS datasets for public bus routes, stops, and service coverage. - Prepare groundwork data in readiness for spatial analysis to optimize route efficiency, accessibility, and scheduling and to utilize transport modelling techniques to assess demand patterns and service gaps.			
2	Data-Driven Scheduling Optimization: - Support the development of structured public transport timetables based on geospatial insights. - Analyze ridership trends, travel times, and peak-hour demand to inform scheduling improvements. - Collaborate with stakeholders to refine bus stop placements and service frequency.			
3	Transport Reporting, Monitoring & Evaluation - Prepare dashboards, data visualizations, and strategic reports to support executive decision-making for the Public Transport Improvement Program - Monitor and support improvement of KPIs framework related to public transport coverage, efficiency, and schedule reliability - Conduct periodic impact assessments to evaluate system improvement			
4	Strategic Data Compilation & Performance Reporting - Lead the collation and synthesis of performance and operational data from all LTA divisions - Compile comprehensive inputs for Monthly Board Reports, Annual Reports, and the Corporate Plan - Ensure integration of strategic KPIs, progress metrics, and divisional updates into reporting frameworks - Liaise with divisional leads to verify data accuracy and consistency across reporting cycles - Align reporting deliverables with stakeholder expectations and national transport policy goals			
5	Technical Support & Collaboration - Provide GIS-related technical support to transport planners, engineers, and policymakers as required - Ensure compliance with regulatory standards and best practices in geospatial data management			
6	Any other duties as reasonably expected in pursuit of the core purpose for the position, as directed from time to time			

SELECTION CRITERIA			
Criteria	Competency Description		Requirement
Qualifications & Experience	1	Bachelor's degree majoring in Geospatial Science, Data Analytics, Transport Planning, Civil Engineering, or a relevant field	Essential
	2	Minimum 2–3 years of practical experience in GIS	Essential
	3	Public transport planning	Desirable
	4	Prior involvement in urban mobility analysis or infrastructure development	Desirable
Technical Skills	5	Demonstrated proficiency in GIS platforms (e.g., ArcGIS, QGIS) and transport modelling tools	Essential
	6	Solid experience with spatial analytics, database management including advanced Excel data management	Essential
	7	Competency in Python or SQL for data processing	
Communication & Soft Skills	8	Strong analytical and problem-solving abilities	Essential
	9	Excellent communication skills, especially for conveying data-driven insights to executives	Essential
	10	Ability to collaborate effectively with diverse stakeholders and multidisciplinary teams	Essential

CORE COMPETENCIES	
1	Integrity and Accountability: Acts with transparency and professional responsibility
2	Strategic Thinking: Applies geospatial insights to drive long-term transport outcomes
3	Innovation: Explores new tools and methodologies to improve public service delivery
4	Collaboration: Supports and uplifts team performance through shared knowledge
5	Adaptability: Embraces learning and responds flexibly to evolving priorities
6	Results Orientation: Prioritizes deliverables aligned with planning and evaluation targets
7	Stakeholder Engagement: Builds trust through responsive, data-informed communication