

# Land Transport Authority

## Job Description

<b>Date:</b>	19th January 2018	<b>Position Title</b>	Senior Bridge and Coastal River Protection Engineer
<b>Division:</b>	PROCUREMENT & PROGRAMMING	<b>Classification Level</b>	Grade 5/6-\$26,817-40,695 per annum
<b>Directly Supervises</b>			
<b>Reports to:</b>	Manager Programming and Procurement Division through the Principal Bridge and Coastal River Protection Engineer		

### Primary Objective

To ensure that existing bridge structures and coastal protection assets function properly relative to expected capacities and designed life spans. Instigate measures through efficient planning and execution to ensure that these assets are maintained, repaired, rehabilitated or replaced if needed.

### Responsibilities

1	Calculate dimensions, areas & volumes, profile and component specifications, and material quantities, using calculator or computer.
2	Draft detailed dimensional drawings and design layouts for projects and to ensure conformance to specifications.
3	Analyze proposed site factors and design maps, graphs, tracings, and diagrams to illustrate findings.
4	Read and review project blueprints and structural specifications to determine dimensions of structure or system and material requirements.
5	Prepare reports, cost estimates and document project activities and data.
6	Confer with Principal Engineer to determine project details, such as plan preparation, acceptance testing, and evaluation of field conditions.
7	Inspect project site and evaluate contractor work to detect design malfunctions and ensure conformance to design specifications and applicable codes.
8	Liaise with Surveyors to plan and conduct field surveys to locate and analyze details of project sites.
9	Develop plans and estimate costs for installation of systems, utilization of facilities, or construction of road structures.
10	Report maintenance problems occurring at project site to Principal Engineers and Construction Supervisors and negotiate changes to resolve system conflicts.
11	Conduct materials test and analysis, using tools and equipment, and applying engineering knowledge..
12	Compile & prepare quotations, tender and contract documentations for any engineering project as directed by the Divisional Manager
13	Compile AUS & NZ Guidelines, Standards and Specification for Contract works. Use these documents to prepare Guidelines, Specifications and Standards to suit Samoa conditions and environment for the procurement of works.
14	Provide civil engineering design inputs for any engineering projects as requested
15	Establish and monitor a CAD System and drafting manuals based on NZ & AUS Standards to guide and standardize all design engineering works.

<b>Selection Criteria</b>		<b>Essential - Desirable</b>	<b>Weighting</b>
Qualification	Tertiary qualification of Bachelors Degree in Civil Engineering or relevant discipline from a recognised institution.	Essential	
Work Experience	Minimum 4 years of relevant work experience, particularly infrastructural works an advantage.	Essential	
Knowledge and Skills	Strong written and verbal communication in both English and Samoan language	Essential	
	Sound knowledge of Engineering standards and contract management standards	Essential	
	Ability to plan, monitor and manage projects efficiently.	Essential	
	Ability to provide technical advice regarding design, construction, or program modifications to road engineering and managerial personnel.	Essential	
	Knowledge of relevant legislations(LTA Act & LTA Regulations)	Essential	
	Demonstrated ability to work under minimum supervision	Essential	
	Must be Computer literate.	Essential	

<b>Competencies</b>	
1	Lead by responsible example
2	Team Building
3	Training and coaching
4	Planning, assigning, directing and supervising work
5	Addressing complaints and resolving problems.

<b>Prepared by:</b>	<b>Human Resource</b>
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