

Associate infrastructure engineer

Proficiency level		New Gen AI skills		Transferrable skills at the same proficiency level	
		New skills		Transferrable skills at a higher proficiency level ¹	
Skills Framework track	Infrastructure				
Job function	Engineering and tech.				
Job family	Infrastructure engineer				
Sub-sectors	Retail banking, corporate banking, investment banking, private banking and wealth management, asset management, insurance				
Expected augmentation by Gen AI	Do more: Gen AI can automate the collation and analysis of performance statistics to assist in capacity planning, enhance the monitoring of infrastructure traffic, and streamline the documentation of operations and maintenance procedures. Gen AI tools can also synthesize research on emerging cloud technologies to identify gaps and propose improvements to the FI's existing infrastructure				

Key tasks that can benefit from Gen AI

Critical work functions	Key tasks
Optimize infrastructure performance and systems	Collate performance and data performance statistics for capacity planning and reporting of existing infrastructure
	Monitor infrastructure traffic and performance in accordance with defined operational metrics
	Maintain documentation of infrastructure operations activities, maintenance procedures and tests, and infrastructure optimization
Resolve infrastructure-related incidents	Monitor compliance to procedures and policies for infrastructure-related incidents
	Simulate user problems to resolve operating difficulties
Manage infrastructure upgrades	Document infrastructure change requests and maintenance routines
Oversee infrastructure deployment	Research emerging cloud and infrastructure technologies

New Gen AI skills	Potential next-seniority level (Infrastructure Engineer) skills to acquire				
Prompt design	3	Business needs analysis	4	Vendor management	5
Gen AI principles and applications	3	Project management	5	Manpower planning	3
Gen AI model selection	2	Stakeholder management	5	Strategy implementation	3
Gen AI model evaluation	2	Emerging technology synthesis	5	Audit and compliance	3
Gen AI application development and deployment	2	Cloud computing	5	People and performance management	3
Gen AI model development and fine tuning	2	Cyber and data breach incident management	5	Budgeting	4
Responsible AI and Gen AI practices	2	Infrastructure deployment	4	Partnership management	4
Gen AI models technical aspects of security and ethics	2	Infrastructure design	5	Organizational analysis	4
Prompt engineering	2	IT asset management	4	IT strategy	4
		Network administration and maintenance	4	Security administration	4
		Problem management	4	Infrastructure strategy	4
		Test planning	4	IT governance	4
				Quality engineering	5
				Business innovation	5
				Performance management	5

1. Transferrable skills with an increase in one level of proficiency is considered easier to acquire than transferable skills with multiple levels of increase in proficiency, followed by net new additional skills. Depending on job redesign for the financial institution, the financial institution will have to pick select skills to reskill employees on, via a combination of on-the-job training and existing courses.

Source: SkillsFuture Skills Framework