



## AI/Gen AI engineer

Designs and develops AI models, algorithms, and systems (including prompt engineering and context engineering) to address specific business challenges

Critical work functions	Key activities
<b>Leadership and strategy implementation</b>	Lead by example and actively contribute to the development and delivery of Gen AI solutions
	Drive innovation and excellence within the team
	Execute the strategy for Gen AI R&D, aligning it with the bank's overarching goals and objectives
	Develop learning roadmaps to support the professional development of the team
	Manage the performance and development process, including providing coaching and development opportunities
	Coach team members on agile practices and values
<b>Research, development, and model deployment</b>	Lead and participate in research activities to explore and advance state-of-the-art Gen AI techniques and software development
	Monitor ongoing research efforts and emerging trends
	Ensure AI models, APIs, and websites are successfully deployed into production environments
	Develop quality systems to mitigate or prevent failure, enabling early detection of issues
	Recommend new technologies, tools, infrastructures, and practices
<b>Cross-functional collaboration and stakeholder engagement</b>	Collaborate with various teams, including product managers and data scientists
	Integrate AI technologies into products and services
	Work closely with business stakeholders across the bank to drive the adoption of Gen AI and LLMs
	Identify opportunities for innovation and value creation
<b>Quality control and testing</b>	Ensure the quality and performance of Gen AI models through rigorous testing and evaluation
	Determine quality standards at each stage of the development process
	Develop and oversee the execution of quality testing processes and plans
	Review test plans and scenarios for compliance with established procedures and guidelines
	Develop reports documenting quality testing outcomes for relevant development teams
<b>Software design, development, and security</b>	Design software components and modules for Gen AI solutions
	Create multiple views of the software system and design high-level organization
	Lead static analysis tasks to evaluate design quality
	Identify security risks and create requirements to capture security issues
	Perform initial threat modeling and lead code reviews and inspections
	Establish project coding standards to avoid security vulnerabilities
	Oversee the building, verification, and implementation of software releases
	Ensure the execution and documentation of approved changes

## Skills and proficiencies

Technical skill competency (TSC) <sup>1</sup>		New Gen AI skills	
Software testing	3	Emerging technology synthesis	4
Business risk management	3	Quality standards	4
Applications support and enhancement	3	Solution architecture	4
Test planning	3	Process validation	4
Configuration tracking	3	Agile coaching	4
Stakeholder management	3	Quality engineering	4
Problem management	3	Process improvement and optimization	4
Business requirements mapping	4	Failure analysis	4
Project management	4	Agile software development	4
Software design	4	Prompt engineering	3