

Automotive GenAI Technical Project Manager

Job Information

Recruiter
NEXUS Corporation

Job ID
1586391

Industry
Automobile and Parts

Job Type
Permanent Full-time

Location
Tokyo - 23 Wards

Salary
7 million yen ~ 15 million yen

Refreshed
October 26th, 2026 03:00

General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Business Level

Minimum Japanese Level
Business Level

Minimum Education Level
Technical/Vocational College

Visa Status
Permission to work in Japan required

Job Description

This position involves introducing Generative AI (GenAI) and Agentic AI into the software development processes of a leading Japanese automotive OEM, and taking the technical lead from planning and design to operation.
You will contribute to the realization of Software-Defined Vehicles (SDV) through AI architecture design, implementation of technologies such as RAG, customer negotiations, and collaboration with development teams.

■ Department Introduction
The IoT & Digital Engineering (IoTDE) department is an organization that drives technological innovation for major Japanese automotive OEMs. With a mission to promote SDV utilizing Generative AI, we are focused on initiatives to realize the future of AI-defined vehicles. Our hybrid global and local structure offers a bilingual English-Japanese environment, cutting-edge technology learning, and participation in innovative projects.

Our Japan IoT & Digital Engineering (IoTDE) division leads innovation for major Japanese automotive OEMs. We focus on enabling Software-Defined Vehicles (SDV) by integrating Generative AI and Agentic AI into the Software Development Lifecycle. Our culture values collaboration, continuous learning, bilingual excellence, and global delivery capability.

■ Project Overview / Project Introduction
In this project, we will introduce AI into all processes from requirements definition, design, coding, and testing, and integrate the AI-generated output into the existing CI/CD pipeline. We will take on the challenge of building an architecture at the

production operation level, going beyond a proof-of-concept, and fundamentally transforming software development in the automotive industry.

This project embeds GenAI and Agentic AI across every stage of the SDLC with full traceability and compliance. AI outputs will be integrated into enterprise CI/CD pipelines to enable scalable adoption. This is a first-of-its-kind initiative redefining automotive software development with AI at production scale.

■ Position Highlights
- Lead transformation projects at the forefront of automotive AI
- Deep involvement in RAG/LLM implementation, fine-tuning, and prompt engineering
- Involvement in negotiations with OEM senior management and AI roadmap formulation
- Ability to implement not just PoC but also actual operation
- Collaboration with global environments and cloud hyperscalers
- Play a key role in creating the future of SDV

As a Technical Project Manager, you will lead GenAI adoption at enterprise scale.

Key aspects:
- Lead GenAI integration across development pipelines
- Architect and optimize RAG pipelines & LLM solutions
- Work directly with senior stakeholders
- Deploy solutions beyond the PoC stage into CI/CD
- Gain visibility in executive-level decisions
- Contribute to the foundation of Software-Defined Vehicles

■ Main Responsibilities
- Collaborate with each team to clarify requirements and formulate AI implementation plans
- Design, develop, and verify AI/ML/GenAI models
- Promote data extraction, processing, and management
- Model selection, training, evaluation, and optimization
- Development of RAG/GRAG/CRAG
- Utilize AI infrastructure such as Microsoft/AWS/Gemini
- Create technical documents and present proposals to customers
- Collaborate with cross-functional teams to understand business requirements
- Design, develop, test, and validate AI/ML/GenAI models
- Conduct data preprocessing, storage management, and feature engineering
- Carry out model selection, fine-tuning, evaluation, and optimization
- Develop RAG/GRAG/CRAG architectures
- Use/customize Microsoft, AWS, or Gemini AI toolsets
- Prepare technical documents and present proposals to customers

■ Career Path / Future Career Path
Possible career paths include the following positions:
- Senior PM / Architect
- Principal in the GenAI / Automotive area
- Head of AI Solutions
- Consulting Lead – AI Strategy & Transformation

■ Minimum Qualifications
- 3+ years as an AI/ML Engineer or 1+ year as a GenAI Engineer
- Experience developing GenAI/LLM solutions using Python
- Experience with RAG architectures and LLM fine-tuning
- Understanding of prompt engineering

■ Language Requirements
- Japanese: Fluent level
- English: Conversational level

■ Preferred Qualifications
- Bachelor's degree in Computer Science, Mathematics, Statistics, Physics, etc.
- Understanding of AI technologies such as ML, DL, NLP, and Computer Vision
- Ability to translate customer requirements into AI solutions
- Experience with AWS/GCP/Azure, and knowledge of the automotive industry are a plus
- Ability to translate business needs into AI solutions
- Experience with cloud platforms (AWS/GCP/Azure) and automotive domain

■ Salary
Monthly salary: Under our corporate regulations, amount will be decided in consideration of candidates' experiences and abilities.
Discretionary labor allowance: 60,000 JPY - 80,000 JPY
Overtime work allowance: By ordinary (Paid according to overtime working hours)
Salary raise: Yes
Premium: Yes

■ Working hours
9:00 - 18:00
(Actual working hours: 8hrs /Flex time system/ Core time: 10:00 - 16:00)

■ Holiday/Leave
Annual paid leave, Two days off every week (Sat, Sun), Public holidays, Year end and new year holidays, Congratulation or condolence leave, and nursing leave.

■ Welfare program
Insurance: Medical insurance, Welfare pension, Employment insurance, and Industrial injury insurance
System: Asset-building savings, Company pension, Cafeteria plan (selection-based corporate member welfare service)
* Only regular employee is eligible for Asset-building savings and Company pension.
Facility: Corporate membership facility (Athletic club, Onsen resort house, hotel accommodations, etc.)

■ Work place
Tokyo (Minato-ku area) / Minato-ku, Tokyo
Hybrid (1-2 days/week remote work)

Company Description