

Engine Calibration Engineer

Job Information

Recruiter

[Izumi Network Yugen Kaisha](#)

Job ID

1615905

Industry

Automobile and Parts

Job Type

Permanent Full-time

Location

Tokyo - 23 Wards

Salary

7 million yen ~ 8 million yen

Refreshed

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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

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

Key Responsibilities

- Develop and optimize engine calibration parameters to achieve performance, emissions, fuel economy, and durability targets.
- Manage and refine calibration settings across approximately 10,000 control parameters.
- Create test plans and evaluation procedures for engine performance testing conducted by test operators.
- Analyze engine test results and optimize calibration settings using data from: Desktop analysis and simulation environments, Hardware-in-the-Loop (HIL) and test bench environments, Chassis dynamometer testing, Vehicle validation activities
- Perform calibration activities using MATLAB/Simulink and support validation on vehicles.
- Collaborate with cross-functional teams to evaluate and improve engine control strategies, including Fuel injection systems, Ignition systems, Air management systems, Exhaust and aftertreatment systems
- Propose and evaluate engine hardware improvements, such as: Cylinder and piston design optimization, Fuel injector specification enhancements, other combustion and air system improvements
- Support calibration development for multiple engine variants and vehicle platforms.
- Participate in technical discussions and communicate findings, recommendations, and development progress to stakeholders.

Required Skills

Required Qualifications

- 5+ yrs experience in engine calibration (gasoline engine calibration experience is acceptable).

- Strong understanding of engine control logic and calibration fundamentals, including Fuel injection control, Ignition control, Air management systems, Exhaust and emissions control systems
- Hands-on experience with MATLAB/Simulink.
- Strong analytical skills with the ability to interpret complex performance data and calibration maps.
- Business level Japanese language proficiency (JLPT N3+)
- Ability to prepare technical reports and communicate through email in Japanese.
- Strong teamwork, communication skills, and a positive, proactive mindset.

Preferred Qualifications

- Knowledge of diesel engine systems and combustion technologies.
- Experience with engine control strategy development.
- Hands-on experience with engine calibration tools such as: ATI Vision, ETAS INCA, CANalyzer, MATLAB
- Experience with simulation and modeling tools such as: GT-Power, AVL CRUISE-M
- Familiarity with hardware-in-the-loop (HIL), test bench, chassis dynamometer, and vehicle testing environments.

Company Description