



## ECU Development Engineer - Automotive Brake Systems

### Job Information

**Hiring Company**[Cyient K.K.](#)**Job ID**

1567336

**Industry**

IT Consulting

**Job Type**

Permanent Full-time

**Location**

Kanagawa Prefecture, Yokohama-shi Totsuka-ku

**Salary**

Negotiable, based on experience ~ 7 million yen

**Work Hours**

In accordance with company regulations

**Holidays**

In accordance with company regulations

**Refreshed**

December 17th, 2025 10:25

### General Requirements

**Minimum Experience Level**

Over 1 year

**Career Level**

Mid Career

**Minimum English Level**

Business Level

**Minimum Japanese Level**

Daily Conversation

**Minimum Education Level**

High-School

**Visa Status**

Permission to work in Japan required

### Job Description

**«Job Description & Position Highlights»**

- Development work encompassing brake ECU specification formulation through simulation development and performance evaluation
- Utilize MATLAB/Simulink to apply control theory and physics/mathematics knowledge at the actual hardware level
- Engage in algorithm development critical to vehicle control, gaining high expertise and a strong sense of accomplishment
- Deepening practical skills in control and ECU domains while collaborating with customers in the Hon-Atsugi area

**[Job Responsibilities]**

We are seeking an experienced ECU Development Engineer to lead the creation of design specifications, simulation evaluation software (using MATLAB/Simulink), and performance evaluation for automotive brake Electronic Control Units

(ECUs). This role requires a strong foundation in control systems, physics, and mathematics.

- Design Specification: Create detailed design specifications for the automotive brake ECU.
- Simulation Software: Develop simulation evaluation software, primarily using MATLAB and Simulink.
- Evaluation & Analysis: Conduct performance evaluations and summarize the results of the ECU development.
- Control System: Calculate PI control parameters and gains for the control system.
- Technical Knowledge: Apply control knowledge of hydraulic valves, motors, and other relevant components.
- Algorithm Development: Apply knowledge of physics and mathematics as algorithms are developed.

**【Employment Type】**

Full-time, Permanent Employee

**【Salary】**

Based on experience and skill level

**【Working Hours】**

In accordance with company regulations

**【Work Location】**

Customer (Moto-Atsugi)

**【Holidays & Leave】**

In accordance with company regulations

**【Benefits & Welfare】**

In accordance with company regulations

---

**Required Skills****Qualifications****【Required】**

- Japanese Level: N3 and above
- Automotive ECU Experience: Experience developing chassis-related automotive ECUs (e.g., brakes, motor control).
- Control Theory: Ability to calculate PI control and gains.
- Component Knowledge: Control knowledge of hydraulic valves, motors, etc.
- Foundational Knowledge: Required knowledge of physics and mathematics for algorithm development.

**【Preferred Experience】**

- Embedded Software: Experience in embedded software development (creating design documents, coding, testing, etc.).
- Programming: Proficiency in C language.
- Modeling: Experience in developing MATLAB and Simulink models.
- Language: English proficiency.

---

**Company Description**