

# CYIENT

## Vehicle battery control software development

### Job Information

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

1490314

**Industry**

Automobile and Parts

**Company Type**

Large Company (more than 300 employees)

**Job Type**

Permanent Full-time

**Location**

Ibaraki Prefecture

**Salary**

Negotiable, based on experience

**Refreshed**

April 22nd, 2025 03:00

### General Requirements

**Minimum Experience Level**

Over 3 years

**Career Level**

Mid Career

**Minimum English Level**

Business Level

**Minimum Japanese Level**

Business Level

N2 and above

**Minimum Education Level**

Bachelor's Degree

**Visa Status**

Permission to work in Japan required

### Job Description

**Position:** Vehicle battery control software development**Location:** Hitachinaka**Language:** N2 and above**Job Description:**

We are seeking a talented and experienced Vehicle Battery Control Software Engineer to join our growing team. In this role, you will be responsible for the entire development lifecycle of software for our vehicle battery control systems. You will be involved in all stages of the development process, from design and coding to testing and validation.

**Responsibilities:**

- Participate in the complete software development lifecycle for vehicle battery control systems

- Develop and maintain efficient and well-documented C/C++ code for battery control functionalities.
  - Collaborate with design engineers to understand system requirements and translate them into software specifications.
  - Participate in code reviews and ensure adherence to coding standards and best practices.
  - Work closely with test engineers to define and implement test cases for various functionalities.
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## Required Skills

### Required Skills:

- Bachelor's degree in Computer Science, Electrical Engineering, or a related field.
- Minimum 3+ years of experience in embedded software development for automotive applications (or equivalent level of experience in a related field).
- Strong proficiency in C/C++ programming language.
- Experience with development tools and methodologies for embedded systems.
- Understanding of software development lifecycle (SDLC) for safety-critical systems (a plus).

### Desired Skills:

- Experience in developing software for electric vehicle (EV) battery control systems (a plus).
  - Experience with C# programming language (a plus).
  - Knowledge of Pulse Width Modulation (PWM) processing for battery management.
  - Knowledge of Controller Area Network (CAN) communication protocols.
  - Experience with Hardware-in-the-Loop Simulation (HILS) for testing battery control systems (a plus).
  - Strong problem-solving and analytical skills.
  - Excellent communication and collaboration skills.
  - Ability to work independently and as part of a team in a fast-paced environment.
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