



## Honda Racing Development UK Ltd

### PERMANENT VACANCY

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**JOB TITLE:** Battery Chemistry & Cell Testing Engineer  
**REPORTING TO:** Material & Battery Engineering Group Leader  
**DEPARTMENT:** ERS Development  
**APPLY TO:** Kelly\_Brooks@uk.hrdeu.com

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#### ROLE:

Honda is seeking an experienced Battery Chemistry & Cell Testing Engineer to work for the Material & Battery Engineering Group of Energy Recovery System (ERS) Development on the Honda Formula 1 project. This role will be involved in supporting Energy Storage System (ESS) design, which involves from initial idea with chemical, electrical and mechanical through the end of life of the battery in race and cooling system, including issues solving and failure analysis. In addition, this role will ensure that the conceptual cell specification from the chemical and electrical point of view are defined and developed accordingly and tested under the specified test condition.

This role is not only for battery cell development but also for the whole ESS project. That means this role should take responsibility for delivering some material solutions to meet and exceed performance targets, fault investigation and setting countermeasures from the material engineering point of view.

#### MAIN RESPONSIBILITIES:

- Technical specification of battery chemistry and future cell development from material perspective with single cell test.
- Characterise cell performance and battery life.
- Technical development of ES components & systems.
- Driving development of cell and battery modelling including heat transport to inside / outside the battery.
- Technical specification of materials, heat treatment and surface treatment for ESS.
- Problem solving & failure analysis from both electrochemistry and material engineering side.
- Liaising with other technical groups, including electronics and internal / external suppliers.
- Reporting of results in a clear, concise and structured manner.
- Keep up to date with the latest battery technology and future developments.
- Follow up on day to day issues and set priorities for self and the other team members.
- Any other tasks as reasonably required by the company.

#### KNOWLEDGE, SKILLS AND EXPERIENCE:

- Good knowledge of battery chemistry.
- Good knowledge of batteries and battery management systems.
- Good knowledge of High Voltage AC & DC systems, including safety considerations for design & operation.
- Good knowledge of material properties and typical factors of safety to apply for various conditions.
- Ability to engineer solutions considering material selection, manufacturability, other process requirements, geometrical tolerance and control over critical features, etc.
- Ability to analyse data for optimum performance and reliability. (preferably ATLAS)
- Project management experience with supplier.

- Coordination skill of the development and test schedule with members and supplier.
- Experience of making the specification based on requirement from the user point of view.
- Strong fault finding and diagnostic abilities.
- Excellent document presentational skills.
- An adept communicator, be able to build good relationships across all cultures both internally and externally.
- Fluency in spoken & written English is essential. Competence in Japanese or another European language is desirable.
- Domestic travel and travel overseas will be required.
- Full driving license and competence to drive in the UK.
- PC literate.

**PERSONAL COMPETENCIES:**

- Strong technical ability and problem solving skills.
- High level of attention to detail.
- Enthusiastic and self-motivated with high levels of initiative.
- Excellent communication and teamwork skills.
- Ability to plan and manage own workload/projects.
- Able to work autonomously under pressure and meet tight deadlines.

All employees must ensure compliance with the Company Health and Safety Policy, and all relevant other statutory Health and Safety legislation.

This job description may not detail some less major duties allocated to the post holder, nor cover duties of a similar nature, commensurate with the role, which may from time to time be reasonably required by the relevant manager.