

Honda Racing Development UK Ltd

PERMANENT VACANCY

JOB TITLE: Senior Design Engineer (Composites)
REPORTING TO: Mechanical Engineering Group Leader
DEPARTMENT: ERS Development – Mechanical Engineering Group
APPLY TO: hondaracingjobs@uk.hrdeu.com

ROLE:

Honda is seeking a Senior Composites Design Engineer to work within the Energy Storage System design project team working on the Honda F1 project. Responsibilities include driving the conceptual and detailed design of the ESS pack. This includes the global layout, the enclosure design, both composite and metallic race car parts, any manufacturing tooling required, experimental parts, rig testing and calculations/experimentation. As a senior member of the design team you will provide technical leadership as well as guidance to the design team.

Main Responsibilities:

- Creation of design schemes for evaluation of concepts
- Detail design of composite and metallic parts
- Liaising with other technical groups including electronics and suppliers
- Specification / design of test equipment required
- Organisation and overseeing of rig testing
- Data analysis and making recommendations for improvements
- Reporting of results in a clear, concise and structured manner
- Technical leadership, guidance and instilling best practice approach to the design team.
- Any other duties as reasonably required by the Company

Knowledge, Skills and Experience:

- Strong Degree in Mechanical Engineering or in similar discipline or equivalent experience
- Solid previous experience of working in motorsport (ideally within Formula One) or another cutting edge industry (it is expected that successful candidate will have at least 7 years of relevant experience)
- Ability to create complex designs from schemes through to finished drawings including material selection, ply book, tooling and any test equipment required
- Strong Composite component design knowledge and experience required, Metallic component design experience highly desirable
- Composite and Metallic component design experience
- Previous experience of technical leadership and ability to lead other team members in composites design
- Previous experience and knowledge of ESS part design and experience of high powered electrical system design and composite selection is preferable
- Experience of producing engineering drawings and familiarity with CAD packages required, previous experience of Catia V5 preferable
- Knowledge of Formula One PU Installations advantageous
- NDT for structural composites advantageous
- Experience of packaging complex interrelated assembly's desirable

- Previous experience of Formula One good practices and understanding of Formula One regulations is advantageous
- 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
- Ability to travel within the UK and overseas
- Full driving licence and competence to drive in the UK
- PC literate

Personal Competencies:

- Strong technical ability and problem solving skills
- Able to provide technical leadership and guidance to other team members and mentor less experienced designers
- Analytical, with 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.

Please note that shift working and weekend working may feature as part of this role. Domestic Travel and Travel overseas may be required.

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.