

Honda Racing Development UK Ltd

PERMANENT VACANCY

JOB TITLE: Design Engineer
REPORTING TO: Mechanical Engineering Group Leader
DEPARTMENT: Mechanical Engineering Group
APPLY TO: hondaracingjobs@uk.hrdeu.com

ROLE:

Honda is seeking a Design Engineer to work within the Energy Recovery System design project team working on the Honda F1 project. Responsibilities include conceptual and detailed design of Motor Generator Unit (MGU), the cooling system, metallic and composite race car parts including any manufacturing tooling required, experimental parts, rig testing and calculations/experimentation.

MAIN RESPONSIBILITIES:

- Creation of detail design scheme and release it for evaluation of concepts and production
- Detail design of cooling system, high voltage electric components, electro-magnetic components 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
- Any other duties as reasonably required by the Company

KNOWLEDGE, SKILLS AND EXPERIENCE REQUIRED:

- Strong Degree in Mechanical / Aeronautical Engineering or similar discipline or equivalent experience
- Minimum 3 years previous experience of working in motorsport (ideally within Formula One) or another cutting edge industry
- Good knowledge of thermodynamics, fluid systems and heat transfer
- Metallic component design experience required, Composite component design experience is preferred
- High voltage electric system knowledge and/or experience are highly desirable
- Experience of the fundamentals of mechanical design including best practices for machining, fixings, sealed junctions, fabrication and surface treatments
- Experience of packaging complex interrelated assemblies
- Ability to create designs from schemes through to completed part drawings
- Familiar with CAD packages, previous experience of Catia V5 preferable
- Previous ESS or high powered electrical system design experience would be beneficial
- Knowledge of Formula One PU installations would be advantageous
- Excellent document presentational skills
- An adept communicator, 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 license and competence to drive in the UK
- PC literate

PERSONAL COMPETENCIES:

- Strong technical ability and problem solving skills
- Engineering enthusiasm
- Analytical with high level of attention to detail
- Enthusiastic and self-motivated with high levels of initiative
- Excellent communication and teamwork skills
- Flexible and able to plan, prioritise 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.