

**Job Description**

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| **Date:** 1/8/2020 | **Job Title:** EFI Trackside Engineer |
| **Supervisor:** Scott Matas | **Department:** Development |
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| **Purpose of Job**  *(Briefly state the primary purpose and responsibilities of the job.)* | |
| Oversee NASCAR Cup engine application of Roush Yates powered racecars, ensuring optimum performance and reliability. | |
| **Responsibilities**  *(List five to eight major job functions, duties, tasks and accountabilities which must be completed in achieving the objectives of the position.)* | |
| * Optimize, produce, implement, manage all production engine calibrations at chassis dyno, race events and track testing. * Interface and support crew chiefs, team engineers, and tuners before, during and after the race weekend to achieve optimum engine and racecar performance. * Manage NASCAR spec ECU software via updates, calibration changes, validation and implementation. * Analyze engine data, operating conditions and calibration adjustments to ensure optimum at-track performance and reliability. * Facilitate troubleshooting engine and EFI system issues during the race weekends, and track tests. * Compile, analyze and summarize ECU engine data post-race each week. * Support pre-race chassis dyno sessions. * Contribute to department EFI procedures and documentation with the aim of improved accuracy and efficiency. * Develop and implement new software tools as needed for data processing, and calibration. | |
| **Job Qualifications**  *(List the minimum education, formal training, skills, and experience required to perform the job.)* | |
| * A bachelor’s degree in mechanical or electrical engineering with 0-3 years of relevant work experience * Strong knowledge of internal combustion engine fundamentals * Ability to work effectively in a fast-paced, high pressure environment * Experience with professional engine control systems, hardware and software * Experience with data acquisition systems * Ability to work effectively in a small group of focused and talented engineers * High level of computer literacy, especially advanced use of Excel * Good verbal and written communication skills (ability to describe issues in a clear and concise manner)   **Desired:**   * Experience with McLaren software (System Monitor and ATLAS) * VBA/C/C++ or similar coding experience | |
| **Position Requirements**  *(List any specific requirements such as repetitive lifting, bending or stooping, prolonged period of standing, frequent travel as a driver and/or passenger, required licenses/certification, etc.)* | |
| * Travel to all NASCAR cup race and test events as required * Non-standard working hours as required by the NASCAR event schedule * Ability to pass a NASCAR drug test at any time | |
| **Equipment Used**  *(List any specific equipment used for this position.)* | |
| * McLaren System Monitor * McLaren Atlas * Microsoft Office * VBA | |

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| **FOR HR USE ONLY:** |
| Job Code: |
| Job Grade: |
| Exempt  Non-Exempt |