

Job Description: Lead Software Engineer

Manor Grand Prix Racing Limited is embarking on a challenging but exciting new chapter and we consider our people to be our most important asset. We think that great engineering is the act of doing more with less. The challenge and the glory is in pushing the boundaries, using innovation, creativity and determination, and amazing the world with what can be achieved with limited resources. We're building a lean, integrated and collaborative infrastructure, where individuals and teams are expected to deliver performance, ideas and concepts which make a difference.

1.0 Line Manager: Chief Engineer

2.0 Main Purpose: The role sits in the Engineering Software department, which provides software solutions to different engineering areas of the team.

The Lead Software Engineer will interact mostly with the Vehicle Science and Race Engineering departments, but other crucial areas such as Aerodynamics and the Design Office will be customers too. The successful candidate will lead a group of skilled software engineers in order to analyse and find solutions for a wide range of software development areas that directly impact the performance of the car. They will also be responsible for defining the software infrastructure (database design, programming languages, etc.) that will constitute the foundations of our engineering software development.

3.0 Core Tasks:

- Day-to-day management of the Engineering Software Department.
- Definition of software infrastructure and architecture.
- Implementation of the vehicle model developed by Vehicle Science.
- Design and development of our own lap simulation software in conjunction with our Vehicle Science department.
- Design and development of our own race strategy software following the specifications defined by our Race Engineering department.
- Design and development of inter departmental communication tools.

4.0 Other Tasks:

- Coordinate the design and development of ad hoc tools as specified by the requesting department.
- Provide factory based software support during race and test events.

5.0 Measures of Success:

- Quality of the software developed.
- Ability to understand the requirements and to proactively propose software solutions.
- Quality of the development planning in order to adhere to the tight deadlines of the business.
- Ability to motivate the department and extract the maximum potential from its members.

6.0 Key Relationships:

The successful candidate will need to interact daily with Vehicle Science and often with Race Engineering, as well as ad hoc interactions with the other engineering and design departments. Good communication with the developers and with the managers of the customer departments will be key to this role.

7.0 General Provisions:

- Ensure that all information concerning customers, employees and activities within the business are treated as confidential.
- Promote and comply with all policies and supporting procedures.
- Ensure that the Health and Safety Policies, Standard Operating Procedures and guidelines are managed correctly and adhered to at all time.

The duties of the post and job description will be regularly reviewed.

8.0 Qualifications and Skills:

8.1 Qualifications

Essential

- BEng (Software Engineering Electronic Engineering) or BSc (Computer Science, Mathematics, Physics)

Desirable

- MEng or MSc in the above mentioned disciplines.
- Strong background in applied Mathematics, Statistics or Physics

8.2 Skills

Essential

The Successful candidates will be:

- Proficient at C-based programming languages in Microsoft environment.
- Very knowledgeable in RDBMS, particularly Microsoft SQL Server.
- Having good people and project management skills.
- Able to use Matlab.
- Having a strong analytical mind.
- Excellent with their attention to detail.
- Flexible both in mindset and readiness to work a variety of working hours.
- Able to work under pressure.

Desirable

- Able to understand basic vehicle dynamics concepts.
- Knowledge in network protocols

9.0 Experience:

Essential

The Successful candidates will have:

- Good communication skills.
- Previous experience in managing a small group of programmers.
- Previous experience in developing client-server applications.

Desirable

- Previous motorsport experience

To apply for this role, please submit your CV and a covering letter to Jobs@ManorF1Team.com where your application will be reviewed and we will endeavour to respond to all applications within 10 days.