

ELECTRICAL ENGINEERING – EIM & EMC

Our client, a multinational, continues to lead its sector by innovating. They are currently looking to expand their already talented R & D team. Are you one of them?

WHY JOIN THE TEAM?

Initiator! You like to launch projects, be at the base of innovation. Join a growing R&D team working on the future. In this environment, engineering and innovation are at the center of our concerns, without red tape. You will have a high degree of control over your work, while being assisted by a team of vehicle design experts.

YOUR KEY RESPONSIBILITIES

- Provide EMI/EMC technical guidance & support to EV propulsion systems developments, and ensure implementation of best practices and standards;
- Design, analyze, and implement fundamental concepts in circuit design, RF, and EMI/EMC during the concept development and prototype design, integration, and test of EV propulsion systems or components of such systems, conduct testing and analyze results;
- Review and tailor EMI/EMC requirements to meet upcoming challenges in technology and materials;
- Document electrical architecture solutions, topologies, and configurations to optimize performance for both existing and new projects, perform electrical engineering analyses for systems and circuits, document findings, and communicate results;
- Develop and execute the test plans necessary for the validation of technical solutions, on the test bench and on the different vehicles, while taking into account the norms and standards established;
- Collaborate with suppliers in the development of software and electronic components as well as in determining deadlines and standards to be respected;
- Contribute to setting performance criteria, developing validation plans for each system and ensuring plan execution;
- Be the technical EMC expert, leading a team to deep dive, root cause, and resolve issues from first principles;
- Work closely with product design, quality, and manufacturing engineers, and the production team to ensure that the system supports all critical objectives.

YOUR QUALIFICATIONS AND SKILLS

- You have the ability to work in a project start-up environment with objectives that are in the process of being defined and in a multidisciplinary team;
- You detain a Bachelor's degree or a master's degree in Electrical Engineering, or proof of exceptional skills in related fields with practical experience
- You have a minimum of 5 years of relevant experience;
- You demonstrate strong interest in driving and designing recreational & performance vehicles;
- You have acquired experience in computer-aided EMI/EMC testing and data reduction, are familiar with related softwares and standards and can mitigate related issues in design;
- You possess experience from vehicle level down to component level design practices;
- You have experience working with metallic and non-metallic structures;
- You are fluent in English (written and spoken); French is a strong advantage
- You have the ability to analyze and solve complex problems, creativity and ability to innovate;
- You are comfortable in an environment where technical solutions are not known, where the path is not traced and with the use of predictive analysis methods.
- You know the PCB design, layer stack up with Altium designer and have experience with Schematic capture and PCB design tools.
- Hands on experience and DFX
- Excellent lab skills and problem solving techniques.
- Knowledge of safety agency requirements and how to design for compliance is an asset.
- Excellent communication skills among teams and with vendors
- Self-motivated and disciplined.

Please send your CV to info@yourteaminternational.ca or for more information.