Electrified Powertrain Engineering EMC Technical Expert
Location: Dearborn, Michigan US

Job Number 35719BR
Dearborn, Michigan US

Ford Product Development is utilizing Design Thinking & User Experience methods to deliver breakthrough products and services that will delight our customers. Our employees are laser-focused on bringing innovative, exciting, and sustainable ideas to life. From autonomy and electrification, to smart mobility technologies, our Product Development teams around the world are working together with excitement to make smart vehicles for a smart world.

We are looking for an Electrified Powertrain Engineering EMC Technical Specialist. The EMC Technical Specialist will be the subject matter expert for the EMC of electrified products and systems working with HV battery, inverter system control, DC/DC converters, Chargers, and other embedded controls and power conversion devices.

At Ford Motor Company, we are dedicated to designing, manufacturing and delivering high quality vehicles that meet the diverse needs of our customers. Ford is a global leader in the area of vehicle electrification. The Electrified Powertrain Engineering (EPE) organization’s vision is to anticipate and innovate smart electrified powertrains and features that deliver exciting and rewarding consumer experiences resulting in a profitable xEV business for a smart world.

Responsibilities:
• Develop the system design strategy for EMC compliance of electrified products
• Evolve design guidelines to ensure EMC performance in future designs
• Develop EMC test plans to ensure products will be compliant with all applicable standards and regulations
• Work with the product engineers from initial concept stages
• Diagnose root cause of EMC compliance issues and propose mitigation actions
• Lead and work closely with Ford Research EMC team to advance application of CAE techniques to the derivation of application-specific EMC requirements & specifications
• Analyze Ford internal and supplier designs for adherence to good EMC design practice

Basic Qualifications
• Master's Degree in Electrical engineering with concentration in electromagnetics and/or EMC
• 8+ years of experience in EMC activity related to Automotive or Vehicle System Engineering
  o Must include experience working with EMC standards and regulatory requirements
• 3+ years of experience utilizing EMC CAE tools (such as EMCoS, Ansys, PSIM, Saber, Simulink, etc.)
• 3+ years of experience utilizing lab equipment (network analyzers, spectrum analyzers, etc.)

Preferred Qualifications
• 3+ years of experience working on or with electrified vehicles, subsystems, or components
  o HV battery, inverter system control, DC/DC converters, Chargers, and other embedded controls and power conversion devices
• Familiarity with Ford EMC requirements
• Demonstrated ability to answer questions through creative design of lab experiments and CAE
• Familiarity with power electronics circuit topology
• Strong teamwork, organizational, oral communication, and written communication skills
• Demonstrated leadership skills, able to effectively interact with multiple internal and external stakeholders

Join our team as we create tomorrow! We believe in putting people first, working together, and facing challenges head-on, because we're Built Ford Tough. We're one team striving to make people's lives better while creating value, delivering excellence and ultimately going for the win.

Candidates for positions with Ford Motor Company must be legally authorized to work in the United States on a permanent basis. Verification of employment eligibility will be required at the time of hire. Visa sponsorship is not available for this position, TN visa holders may be considered.

Ford Motor Company is an equal opportunity employer committed to a culturally diverse workforce. All qualified applicants will receive consideration for employment without regard to race, religion, color, age, sex, national origin, sexual orientation, gender identity, disability status or protected veteran status.

Link to apply: [http://gr.8job.co/w0RbagAV](http://gr.8job.co/w0RbagAV)

Kind regards,

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