

Danfoss, a global market leader in HVAC/R, Water and Motion Controls has an excellent opportunity for an experienced **Senior Electromagnetic Compatibility (EMC) Engineer** to join the Danfoss Drives Division Product Development Team located in Loves Park, IL

As a member of cross-functional project teams, the product development **Senior EMC Engineer** is responsible for compliance to applicable EMC standards throughout the product design cycle of variable frequency drives.

### **Key Tasks/Responsibilities**

- Perform as EMC Team Leader for Danfoss Loves Park Product Development
- Design for EMC to support scheduled product release
- Work closely with all project team members to ensure EMC compliant product design
- Evaluate product design concepts for EMC compliance and risk
- Detailed reviews of electrical and mechanical designs for EMC compliance
- Conduct pre-compliance testing in lab to minimize risk prior to design release
- Determine applicable product EMC requirements based on markets served (EU, Marine, FCC etc.)
- Coordinate and conduct EMC validation testing at 3rd party test facilities
- Issue final documentation to support certificates of compliance
- Provide relevant input to project leaders for project resource, schedule, budget and test planning
- Serve as an advising resource for EMC best practices to all engineering disciplines

### **Basic Minimum Skills Required**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Bachelor's degree (B.S.E.E.) in Engineering
- 5 years of experience in R&D projects in a role of design engineer responsible for EMC compliance
- Working knowledge of conducted and radiated emission and immunity, burst, surge, ESD, etc.
- Hands on experience EMC test & measuring equipment
- Ability to interpret electrical schematics and mechanical drawings
- Ability to read, write and verbally communicate in English
- Strong analytical and technical skills.
- Able to contribute as a member of an organized project team of engineers

### **Preferred Skills**

- Experience with designing to European Union EMC standards
- Experience with EMC design in variable speed drives and/or inverters
- Advanced course work in areas relevant to product development and EMC
- Masters (M.S.E.E.) in Engineering.

**We are Engineering Tomorrow**

The world faces growing populations, booming urbanization and rapid climate change. At Danfoss, we engineer ready-to-use solutions to these challenges. We build energy-efficient solutions that reduce food loss and make cities cleaner – using digital technology to make systems smarter and more connected – and we engineer innovative new ways to save energy and transition to clean energy for the good of our climate.

**Join Danfoss**

Danfoss gives you unique opportunities to put your skills to good use, make an impact and shape an exciting career. We encourage employees to take charge, do extraordinary things and run the business like it was their own. Danfoss is respected around the world for its innovative, high-quality technologies and solutions. You will learn a lot by working with the experts who develop them. Join Danfoss to be part of a world-class team of over 27,000 people in 56 countries that engineer tomorrow and build a better future.