

**Job Title: Senior EMC Engineer**

**Link to Job Posting:** <https://jobs.danfoss.com/job-invite/20762/>

### **Job Description**

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.

### **Job 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

### **Background & Skills**

#### **Basic Minimum Skills Required**

- 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 (IEC 61800-3)
- 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

At Danfoss, we are engineering solutions that allow the world to use resources in smarter ways – driving the sustainable transformation of tomorrow. No transformation has ever been started without a group of passionate, dedicated and empowered people. We believe that innovation and great results are driven by the right mix of people with diverse backgrounds, personalities, skills, and perspectives, reflecting the world in which we do business. To make sure the mix of people works, we strive to create an inclusive work environment where people of all backgrounds are treated equally, respected, and valued for who they are. It is a strong priority within Danfoss to improve the health, working environment and safety of our employees.