

# Electromagnetic Engineer: Chief Engineer

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Designs and tests electromagnetic products and testing processes using electromagnetic interference (EMI) and electromagnetic compatibility (EMC) concepts and solutions. Applies MIL standards and specifications to modify requirements to meet product performance. Performs EMI/EMC, lightning and electromagnetic pulse (EMP) analysis. Creates test reports, procedures and EMI/EMC control plans. Uses software such as PSpice and Math CAD.

## **Discretion/Latitude**

Works with Business Areas in an engineering leadership capacity to uncover and resolve issues associated with the development and implementation of operational programs and business pursuits. Identifies, recommends and aligns R&D programs and technological applications to accomplish long-range business objectives. Develops and maintains the Business Area's Technology Roadmap. Work is reviewed only to determine the effectiveness of the results obtained, typically from a short-term perspective for operational issues and a long-term perspective for technology alignment to the Business Area's strategies.

## **Knowledge, Skills and Abilities**

Exhibits an exceptional degree of ingenuity, creativity, resourcefulness and technical leadership. Applies and/or develops highly advanced technologies, scientific principles, theories and concepts to meet the needs of the Business Area. Viewed as a leading expert in applying technology and solving operational issues in support of the Business Area's objectives. Establishes long-range marketing plans and technology Roadmaps for the Business Area's products and services by identifying, analyzing and developing new business opportunities. Establishes customer contacts, develops proposals, and delivers technical marketing presentations. Cultivates and maintains relationships with key decision makers.

## **Problem Solving**

Applies technology and engineering and performs a leadership role to achieve the Business Area's operational and strategic goals. Applications may be diverse and include newly developed concepts, theories and products, or engineering discipline.

## **Impact**

Sets the technology direction for the Business Area and corrects the course of current errant technology direction when warranted. Erroneous decisions or recommendations would have a long-term negative effect on the organization's reputation and business posture. Leads development and implementation of key programs and/or processes for the Business Area.

## **Liaison**

Serves as a consultant to the Business Area's top management in long-range company planning concerning new or projected areas of technological research, advancement, and the current program's technical performance. Prime spokesperson on the Business Area's technical capabilities and future direction. Often instrumental in attracting and obtaining major new company business.

## **Minimum Education and Experience**

20+ years of broad and extensive professional experience with BS in Engineering or related field. Employees usually have advanced degrees in Engineering.