

## R&D Sr Electrical Engineer - St Paul, MN

### JOB SUMMARY

Performs engineering work requiring full competency in all conventional aspects of electrical design engineering.

### Duties Include:

Plans and conducts work requiring judgment in the independent evaluation, selection and the substantial adaptation of standard electrical engineering techniques, procedures and criteria; devises new approaches to problems as encountered. Plans and coordinates detailed phases of the electrical engineering activities for part of a major project or a total project of moderate scope. Routinely provides guidance and direction to engineers and/or technicians for the duration of a project assignment.

### MINIMUM EDUCATION AND EXPERIENCE

Bachelor's degree in Electrical Engineering or related engineering field, with seven to ten years professional level electrical design engineering experience. Medical industry experience is preferred.

Masters degree in Electrical Engineering, with four to six years electrical design engineering experience also meets requirements.

Ph.D. in Electrical Engineering, with three to five years electrical design engineering experience also meets requirements.

### MINIMUM KNOWLEDGE, ABILITIES AND SKILLS

Possesses and applies a comprehensive knowledge of electrical design engineering, as well as competency in related specialty fields. Knowledge is evidenced by a cumulative GPA of 3.0, or above in engineering major, plus breadth of experience, previous job progression, accomplishments and performance levels.

Uses considerable judgment in the planning, scheduling and coordinating of project phases, as well as the selection of engineering techniques and criteria. Strong analytical and problem solving skills are required.

Excellent verbal communication skills and technical writing skills. Able to plan and conduct effective meetings and group presentations.

Knowledge and skill in electrical engineering documentation procedures, development methods and project management, with the ability to rapidly master Smiths Medical internal procedures and methods, such as Documentation System, ECOs, DOEs, DVTs, MDAs, etc.

Depth of knowledge of SOPs, GMP/FDA/ISO 9000, etc., principles and proven skill in integrating into electrical engineering discipline preferred.

Must be hands-on, detail-oriented Senior Electrical Engineer with experience in embedded micro controller circuit design and embedded firmware development, digital & analog circuit design experience, WiFi and RFID wireless radio experience, EMI/EMC/ESD testing, low power battery operated devices, switching/linear power supplies, IEC60601-1 compliance testing, medical device development experience. Experience with circuit simulation and circuit board layout tools.

Ability to coordinate and lead project team activities in an effective and efficient manner. Team members typically include diverse inter-department staff including Regulatory, Marketing, Purchasing, Operations, Design, QA, Production, etc., requiring a significant amount of organizational and motivational skill.

Ability to work with vendors to ensure quality products.

Ability to work with and manage distributed development teams including off-shore engineering resources.

Ability to handle and work under stressful situations.

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