

## Senior Staff EMI Engineer

**Type:** Full-time  
**Reports To:** Director of Systems & Applications Engineering  
**Location:** Toronto, San Diego or Raleigh

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As part of a small, fast-moving, innovation-focused company, the Senior Staff EMI Engineer will work closely with the Systems & Applications Engineers to design and evaluate reference designs that meet EMI specifications.

Your key responsibilities follow:

- Define best practices for reference designs to meet EMI requirements
- Collaborate on reference design development with Applications Engineers
- Set up and perform Conducted and Radiated EMI testing within internal lab
- Set up and perform Conducted and Radiated EMI testing at external labs such as UL
- Modify Internal EMI test setups as needed to deliver correlated results with external vendors as much as possible
- Collaborate with Bench Automation engineer to automate testing
- Create EMI evaluation reports
- May require occasional travel (up to 2 times per year for 2 to 5 days)

### Required Skills and Experience

- >12 years experience
- Experienced at defining & designing reference designs that meet conducted and radiated EMI specifications (such as CISPR 32, CISPR 14)
  - Working knowledge of IEC 62368 as it pertains to EMI (X-capacitor discharge time constraint, Y-capacitor leakage current, etc).
  - Knowledge of medical/industrial design constraints a plus
- Experienced at addressing conducted and radiated EMI issues
- Familiar with CMCs, Low current and high current Beads, component selection, shielding, magnetics and board layout techniques to drive conducted and radiated EMI down
- Experienced with EMI diagnostic techniques such as using sniffer probes
- System-level application experience with AC/DC & DC/DC power ICs desirable
- BS in Electrical Engineering (or equivalent)
- MS in Electrical Engineering preferred