Professional Sr, Engineering Electromagnetic Compatibility (EMC)

Location	Dorval, Québec, H4S 1Y9
Posting date	2026-06-25
Business unit	People & Sustainability
Organization	Aerospace Canada
Primary site	Administrative Centre (CA)
Status	Permanent
Posting languages	EN

Responsibilities

- In your role, you will be reporting to the Engineering EMC Section Chief
- The role of professional manager, Electromagnetic Compatibility (EMC) is a multifaceted position within the Functionality, Systems, Research and Technology department
- Bombardier's electromagnetic compatibility team is responsible for ensuring the safety of our aircraft against internal and external electromagnetic threats, including electromagnetic interference (EMI), high intensity radiated fields (HIRF), low intensity radiated fields (LIRF), lightning and electrostatic charge
- We ensure that our aircraft meet all related regulatory requirements
- Your future team supports all Bombardier products
- Leadership: complex engineering assignments related to EMI, HIRF, LIRF, Lightning, and Electrostatics including performing detailed analyses using similarity assessments, simulation, and/or analytical methods
- Help drive the resolution of electromagnetic related issues to support EMC certification and sustaining activities to support production and in-service
- Definition: scope of work and EMC effort for engineering projects, plan activities/milestones, highlight technical risks, and complete tasks according to priorities
- Analysis: new and/or modified system or structure designs to assess technical engineering impacts and propose EMC compliance approaches
- Review and approval: related technical documents, such as test procedures, test reports and analytical reports
- Verification: compliance with certification regulations
- Propose, lead and support knowledge-entry initiatives; support the identification and reduction of knowledge and skills gaps
- Provision: advice to junior team members and trainees
- Role as EMC lead on projects, delegating and supervising the work of junior team members and interns
- Coach, mentor, and train new employees in the EMC team
- Support: the creation and updating of technical requirements for EMI, HIRF, LIRF, Lightning and Electrostatic
- Provision: EMC guidance and support to collaborative R&D teams (universities, industry) in solving issues related to Electromagnetics and driving activities to completion

- Represent the EMC team at multidisciplinary meetings. Engage with internal and external suppliers, partners, and clients
- Identification and implementation: improvements to Bombardier's processes and best practices
- Support: and witness EMC tests in Canada, the United States and Europe as needed
- Preparation: /examine test procedures EMI, HIRF, LIRF, Lightning and electrostatic Discharge, supervise testing and produce test reports
- Preparation: the certification design conformity report

Candidate profile

- Degree in electrical engineering, engineering or physics
- Eight (8) years minimum experience in EMC that may include work and/or academic experience
- Minimum of four (4) years working experience with systems or structures EMC qualification/certification in the aerospace industry
- Knowledge of relevant industry standards (RTCA/DO-160, SAE ARPs) and high-level familiarity with airworthiness (TCCA, FAA, EASA) Regulations and Advisory Materials pertaining to EMI, HIRF, LIRF, Lightning, and Electrostatics
- Candidate profile: doing well by working as a team and can leverage the community to gain support from other disciplines, including airworthiness, manufacturing and other engineering disciplines to achieve common goals
- Candidate profile: a leader in engineering and work independently to achieve the goals set for you, your team and your business division
- Candidate profile: regarded as a specialist in at least one aspect of EMC and have demonstrated a depth and breadth of knowledge and skill in other areas of EMC
- Candidate profile: recognized by your peers as a resource in the field of EMC
- Experience participating in major project and design reviews and are able to identify technical, schedule and budget risks related to EMC
- Excellent problem-solving skills and are able to apply your expertise to find creative solutions within a multidisciplinary group
- Good oral and written skills, can communicate effectively achievements and challenges to technical plus non-technical management
- French is preferred
- Preferably participated in a minimum of one (1) aircraft development program
- The experience of electromagnetic simulation tools is preferred
- Knowledge of the aviation sector is preferred

Work environment and benefits

- Bombardier develops, manufactures and services high-performance aircraft for private, corporate, government and military customers. Its employer profile emphasizes excellence and staff development.
- Bombardier emphasizes career development, autonomy and individual contributions to improving aviation products and services.

Applying and accessibility

- Please note: You don’t need all the skills, knowledge, and experience listed to contribute for this opportunities
- We are not looking for perfection, just passionate, committed individuals

- Bombardier is committed to providing equal access to professional opportunities and encourages qualified persons of any race, colour, sex, gender identity or expression, pregnancy, sexual orientation, marital status, age, except in cases provided by law, religion, political beliefs, language, ethnic or national origin, social condition, disability or the use of any means to address a disability to express an interest in providing services
- In accordance with this provision, Bombardier is committed to providing reasonable accommodation for persons with disabilities in terms of access to professional opportunities
- Requests for accommodation can be communicated to Bombardier and will be treated confidentially
- Professional Opportunity Sr, Engineering Electromagnetic Compatibility (EMC)