



SENIOR SAFETY ENGINEER/ ANALYST

Corporate Description

MANNARINO Systems & Software Inc. is a leader in providing safety-critical systems & software engineering services to the aerospace, defense, space, simulation & power generation industries. We work with many of the top players within their industries giving our employees exposure to the most interesting and challenging development projects. This stimulating and invigorating working environment allows our team to be at the technological forefront constantly broadening their expertise and honing their skillset to fulfill the ever-growing global high-tech market needs.

The MANNARINO culture is focused on high quality, hard work, professionalism and team work within a highly respectful, motivating atmosphere geared towards long-term business growth.

As a member of our team, you will benefit from:

- a comprehensive group insurance and RRSP plan
- a flextime policy with paid overtime and off-site placement premiums
- discretionary bonuses
- a fitness reimbursement program
- other office perks such as catered weekly lunches and free hot beverages (espresso, coffee, hot chocolate and tea)
- regular company outings

MANNARINO is a privately-held Small & Medium Size Enterprise (SME) and was recently awarded the [AIAC's Innovation Technology Award](#)

Primary Roles / Responsibilities

We are currently seeking a Senior Safety Engineer/Analyst to provide expert-level functional safety consulting services to a client in the railway industry. The position is based in Montreal, on-site at the client's premises.

Day to day responsibilities

- Perform hazard analysis of railroad equipment using industry best practices
- Determine safety functions and their associated SIL (Safety Integrity Levels)
- Work with design teams and V&V teams to negotiate requirements, contribute to design decisions and review demonstration evidence
- Generate safety case documentation to substantiate product safety
- Lead safety process improvement activities and provide coaching to client resources

The chosen candidate will have a proven track record of leading functional safety engineering activities, ideally in the railroad industry. The candidate will be expected to work with minimal supervision as part of a small on-site consulting team.

Primary Roles / Responsibilities

We are currently seeking a Senior Safety Engineer/Analyst to provide expert-level functional safety consulting services to a client in the railway industry. The position is based in Montreal, on-site at the client's premises.

Day to day responsibilities

- Perform hazard analysis of railroad equipment using industry best practices
- Determine safety functions and their associated SIL (Safety Integrity Levels)
- Work with design teams and V&V teams to negotiate requirements, contribute to design decisions and review demonstration evidence
- Generate safety case documentation to substantiate product safety
- Lead safety process improvement activities and provide coaching to client resources

The chosen candidate will have a proven track record of leading functional safety engineering activities, ideally in the railroad industry. The candidate will be expected to work with minimal supervision as part of a small on-site consulting team.

Required Skills and Experience

- Bachelor's degree in a related engineering discipline from an accredited institute
- +10 years' experience of functional safety engineering in the railroad or a related industry e.g. aerospace, automotive, nuclear etc
- Strong knowledge of functional safety tools and techniques e.g. hazard analysis, fault-tree analysis, FMECA etc
- Significant experience of direct client interaction, at management and working level
- Able to plan and execute work with minimal supervision
- Ability to communicate effectively in English (oral and written)

Desired Skills and Experience

- Experience of working on client sites in a consulting context
- Experience in the railroad industry
- Knowledge of the SIL (Safety Integrity Level) approach to functional safety, as per IEC 61508
- Knowledge of railroad-specific safety standards e.g. IEC 62278 (EN 50126), IEC 62279 (EN 50128)
- Knowledge of Systems Engineering standards e.g. IEC15288, INCOSE
- Ability to communicate effectively in French (oral and written)"

Miscellaneous Requirements

- Occasional travel required to customer sites (usually within North America)
- Possibility of assignment to customer site within the Montreal area
- Must be eligible to work in Canada

At Mannarino, we believe that passion and a desire to learn is crucial. Diversity of thought and experiences leads to innovative solutions and creativity. This is why we would like to encourage all those interested to apply.

**Please submit your application by
E-mail rh@mss.ca**

*We are an equal opportunity employer.
All applicants will be held in strictest confidence.
Only those selected for interview will be contacted.*
