



**AEROSPACE EMBEDDED SOFTWARE DESIGN ASSURANCE
ENGINEERS/ANALYSTS
&
DESIGN APPROVAL REPRESENTATIVES (DARs)**

MANNARINO Systems & Software Inc. is a leader in providing safety-critical systems & software engineering services to the aerospace, defense, space, simulation & power generation industries. MANNARINO is a Transport Canada authorized Design Approval Organization (DAO) for airborne software. We are currently seeking Design Assurance embedded software engineers/analysts and Design Approval Representatives (DARs) for various airborne projects.

The MANNARINO culture is focused on high quality, professionalism and teamwork within a highly respectful, motivating atmosphere geared towards the long-term growth of our business.

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

- a comprehensive group insurance plan
- a flextime policy
- a group RRSP plan
- yearly bonuses (dependent on company and employee performance)
- as well as other benefits such as catered weekly lunches.

MANNARINO is a privately held Small & Medium size Enterprise (SME).

JOB DESCRIPTION:

The candidate will be expected to review life-cycle data, perform formal audits and produce the compliance data for software as per DO-178B/C. The software to be assessed may cover a wide range of programming languages and address both low-level operating system software components and higher level application elements. The candidate will ensure, by design review, life cycle data reviews and processes audits, that a given of SW item or equipment follow established industry and regulatory guidelines, and sound engineering practices, in developing airborne embedded software, such that they are safe and certifiable.

Interfacing with customers, suppliers, certification authorities, application users and other technical and support personnel may also be required. The candidate must be able to work independently and in cooperation with individuals and groups. Excellent communication, organization and flexibility skills will be necessary to perform audits and coordinate action items from SW audits and reviews.

For **Design Approval Representatives (DARs)**, the candidate will be responsible for making the Finding of Compliance according to the applicable airworthiness manuals and any project specific Method of Compliance and be able to liaise with Transport Canada and other certification authorities.

REQUIREMENTS:

Education

- Bachelor's degree in computer science or related engineering disciplines from an accredited institute

Experience (typical)

- Minimum of 5 years experience with DO-178B/C or equivalent
- Additional experience a definite asset
- For DARs: Letter of Authorization from Transport Canada / delegation in good standing.

Technical Competencies

- Experience in developing or verifying real-time airborne software for aircraft systems using DO-178B/C or equivalent
- Experience in reviewing life cycle data and audit planning, development and verification processes as per DO-178B/C
- Experience in generating evidence for finding of compliance according DO-178B/C and liaising with certification authorities
- Experience in software requirement and design analysis, involved in peer reviews of life cycle plans, requirements, designs, code, test cases and procedures
- Experience in software coding languages (procedural & object-oriented), in order to understand and review code
- Experience as a Software Quality or Process Assurance Engineer including performing audits as per DO-178B/C
- Good oral communication and negotiation skills
- Knowledge of development or verification tools, for example MATLAB / Simulink, SCADE, BEACON, IBM Rational Test RealTime (RTRT), IBM Rational DOORS, JAMA
- Knowledge of RTCA/DO-178B/C or equivalent safety-critical software life cycle process
- Microsoft Office

Other requirements:

- Ability to communicate effectively in English and French (oral and written)
- Occasional travel required to customer sites (usually within North America)
- Possibility of short-term assignment to customer site within the Montreal area (10% off-site premium applicable)
- Must be a Permanent Resident or Citizen of Canada

Please submit your candidacy 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.
