

Neurostream Technologies

Job Description: Senior Systems Verification Engineer

Location: Quebec (Canada)

Reference: CON20090629B

Reporting to the Director, Systems Design and Evaluation of Neurostream Technologies, the employee will be a member of the Design Verification core team. (S)he will be responsible for assisting in the research, investigation and creation of novel products interacting with biological tissues from concept development through product release. (S)he will act as a systems/hardware/software engineer generating innovative ideas, responsible for the development and implementation of medical-related products in relation with other functional groups (clinical, regulatory, marketing, manufacturing, supply chain, etc.) and physicians.

More specifically, the employee will:

- a) Identify appropriate methods for evaluation of satisfaction of system requirements. These methods could include inspection, review, simulation, demonstration or system-level testing;
- b) Collaborate with other team members in the development of the overall system verification strategy that covers normal operation, system under stress, and unexpected behavior of the system;
- c) Requirements analysis: work with system engineers to understand various functions of the system and the criticality of each system requirement from safety and therapy perspectives;
- d) Design the best set of tests to cover all system requirements in the least amount of time to allow for fast re-execution of tests;
- e) Understand verification of functional and non-functional requirements;
- f) Understand stress testing, boundary testing, positive and negative testing;
- g) Develop tests that are maintainable and expandable;
- h) Work with the internal development team to automate tests that need precision and repeatability;
- i) Work with hazard analysis reports to develop verification that addresses hazard concerns and ensure appropriate system response;
- j) Ensure complete coverage of the system and develop detailed traceability from requirements to tests;
- k) Execute the test suite and generate the final system verification report;
- l) Assist in the improvement of formal procedures that are compliant with external regulatory requirements and execute verification in accordance with those procedures.

Compensation and benefits will be a function of the selected applicant's level of expertise as per corporate policy. Do you wish to get involved in the development of an innovating company? Are you interested in this career opportunity? Then please send us your application.

Only qualified applicants will be contacted.

Academic Background & Experience

1	Essential	Bachelor's degree in electronic engineering
2	Essential	Minimum 5 years of related work experience with a strong understanding of specified functional area

Required Skills

1	Essential	Experience with complex systems in a regulated environment
2	Essential	Experience in verification of software/hardware control systems
3	Essential	Ability to create verification plan and verification report that meets internal procedures and external requirements
4	Important	Knowledge of Independent Verification and Validation process
5	Important	Knowledge of system requirements and design
6	Important	Experience in test automation and use of semi-automated systems for verification
7	Important	Bilingual (French-English)