



MagnetTx

# Employment Opportunity

**Employer:** MagnetTx Oncology Solutions

**Job Title:** Software Verification Mgr

**Position:** Full Time

**Start Date:** ASAP

**Primary Location**

- Edmonton.AB.Canada

**Contact**

- Careers@magnettx.com

## Job Opportunity

MagnetTx Oncology Solutions Ltd. is a Canadian company that is developing a world-leading technology that combines a linear accelerator (Linac), with real-time (concurrent) Magnetic Resonance imaging to deliver radiotherapy to cancer patients, with a goal to substantially reduce radiation treatment margins and improve cancer patient outcomes with less adverse side-effects.

MagnetTx is seeking a **Software Verification & Validation Mgr**. This position is expected to work with a cross-functional team to develop system requirements and the subsequent decomposition to the software level so as to establish a proper framework for software verification and validation for this innovative medical device.

## Qualifications and Desired Skills Required for Position

- 5-8 years embedded software testing and validation experience in medical device applications
- Familiar with system and software development cycle for medical device industry
- Familiarity with FDA design and purchasing control
- Experience in obtaining FDA 510k clearance
- Familiar with IEEE standards on software testing (white box, black box, regression testing, etc.)
- Good knowledge of embedded system architecture and software
- Hands-on experience with requirement traceability and management.
- Hands-on experience in software revision configuration system, like Subversion

## Essential Duties and Responsibilities

- Plan, select and set up requirement management software tools to assist with the day-to-day software activities
- Coordinate with the software team to define software bug handling workflow
- Participate in the establishment of the QMS (Quality Management System) in the organization by defining and executing software supporting processes covering the full life-cycle of the product
- Coordinate with OEM (Original Equipment Manufacturer) subsystem suppliers regarding the risk analysis, and risk mitigation that the supplier is responsible
- Plan and participate in the OEM software verification and validation
- Coordinate with the software team and lead software design reviews
- Develop test specifications to cover low to complex software and system level functionality
- Perform DFMEA (Design Failure Mode and Effects Analysis) and PFMEA (Process Failure Mode and Effects Analysis) in the software design and the commissioning process