

Senior Controls Engineer:

ProTom International Holding Corporation is seeking a Sr. Controls Engineer to join the team in the Boston area office location. This individual will be a skilled and experienced Controls Engineer who will be involved and lead aspects of the design, installation, upgrade, calibration and verification of the ProTom **Radiance 330** Proton Therapy System and will report to the Electrical Engineering Manager.

Responsibilities:

- Lead efforts in the design, testing, and verification of safety and non-safety control systems which include PLC based control systems, power distribution cabinets (<600V), motion control, and process control for machinery depending on temperature, pressure, flow, and other variables.
- Plan, coordinate, and execute critical design reviews and test readiness reviews
- Development of system and subsystem test plans and test protocols
- Specify requirements and layout of the new electrical control panels which are NFPA79/NEC/UL508A compliant.
- Responsible for interacting with client and planning and implementing plans for onsite delivery, installation, testing, and commissioning
- Creation and delivery of formal presentations
- Recommend the purchase of capital equipment; assist in the budgeting of spare parts and supplies
- Assist in training ProTom clients and Service and Maintenance technicians on the safe use, handling and operation of therapy equipment as it relates to electronics
- Work with outside contractors, manufacturers' installers, and field service personnel to achieve installation and acceptance of the radiation therapy equipment.

Requirements

- B.S. in Electrical Engineering; (BSEE); MSEE a plus
- Minimum of 10 years of experience in specification, design, fabrication, test, integration, and documentation of complex electromechanical system
- Experience working within a modern controlled engineering development process such as required by the DOD, FAA, and/or FDA
- Knowledge of computer based control of these systems including Safety PLCs, HMI, amplifiers, motion control, and higher level computer based systems including networking and communication protocols (TCP/IP, Modbus, RS-232/422/485, CANopen, EtherCAT and EtherNet/IP).
- Ability to prepare electrical engineering documentation such as schematic, interconnect diagrams, wiring diagrams, BOMs, FMEA, working instructions and operation procedures
- Skill in the use of ECAD (OrCAD, Altium Designer)
- Knowledge of Domestic and International Building Code Electrical Standards is a plus
- Ability to work in a small cross functional teams
- Takes initiative and responsibility for a design from concept to completion
- Work is performed mainly in an office environment although some work at device installation sites may be required

- Domestic and international travel maybe required. Must be able to acquire all necessary travel documents.

About ProTom International:

ProTom International is a growing medical device company that sells, installs and services its proprietary and patented technology. At ProTom, we work to increase the availability and affordability of clinically advanced proton therapy technology in the fight against cancer for physicians and their patients. We enjoy an innovative and rewarding environment that encourages a sense of ownership and pride in making a difference in the lives of cancer patients.

Employee satisfaction is important to us, so we provide:

Competitive compensation with bonus potential

Generous benefits package

Participation in the Company stock option program

Holidays and paid time off

To Apply:

If you meet the required skills and qualifications and want to apply for this position, please send your cover letter and resume in PDF format to Jobs@ProTomInternational.com. **Local candidates in the Boston, MA area only, please.**

ProTom International conducts pre-employment background screenings, and is proud to be an Equal Opportunity Employer. M/F/D/V