

ProTom International Holding Corporation

Job Description: Service & Maintenance Specialist

Assists in the installation of the Radiance 330® Proton Therapy System (PTS) at test facilities and at a client site; and, troubleshoots, tests, repairs, calibrates and maintains various technical components of the Proton Therapy System (PTS) provided by ProTom International, to include synchrotron; beam line; safety systems; control systems; power supplies, gantry; patient positioner and related hardware and software systems. Also, provides advanced levels (phone, remote login, Skype and on-site) of service support to all installed sites, as needed.

Principal Responsibilities:

- Participates in system pre-installation construction, wiring, configuration, testing, documentation and disassembly which will typically be performed at a non-customer site location or product development facility
- Assists with performance commissioning and validation testing at a test facility and client site, of all products and systems prior to ACCEPTANCE TESTING by the client
- Attends local and OEM level service training programs in order to maintain current knowledge and skills to allow for advanced levels of service and maintenance on assigned systems
- Shares in shift rotations and on-call duties (to be able to support operation of installed systems twenty four hours per day, seven days per week), as needed
- Performs troubleshooting and error code analysis to identify faulty system components
- Repairs defective system components and assemblies in order to maximize system uptime
- Reviews system error logs and real time operational conditions of all aspects of the PTS in order to identify variations in technical operation and system performance
- Performs routine scheduled inspections and preventive maintenance procedures
- Assists with development and documentation of all written test and maintenance procedures, and in providing recommendations for maintenance procedure improvements
- Trains other newly hired service staff on the repair and maintenance on PTS components
- Assists clinical users in troubleshooting of operational problems and error message resolution
- Performs daily start up and shut down procedures based on timing of patient treatment schedules
- Maintains real time operation of the synchrotron and related systems to ensure operational performance
- Travels to other ProTom International PTS sites to assist with advanced troubleshooting and repairs, as requested
- Reviews equipment failures, error logs, and performs troubleshooting and repairs based upon feedback received directly from ProTom International engineering sources, as well as from OEM component suppliers
- Maintains documentation of all service (repair, QA testing and preventive maintenance) per company policy
- Orders and maintains adequate levels of spare components and assemblies; ships defective or unused parts and assemblies as required

Qualifications

- A.A. or equivalent degree and/or experience in electronics; mechanical, clinical or biomedical engineering technology
- Knowledge and training in the use of electronic test equipment, such as volt meters, current meters, oscilloscopes, radiation detection devices, etc.

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- Ability to attend technical training at out of state locations for 1-3 month periods of time, as needed
- Ability to work multiple shifts of up to 12 hours in duration
- Ability to perform component level troubleshooting on electronic assemblies
- Knowledge on troubleshooting AC, DC and RF circuits
- Experience with software based control and standard operating systems
- Prior experience in repair, operation, installation and servicing of LINAC or other radiation oncology treatment systems preferred

Skills/Abilities/Competencies

- Service and operational knowledge in working with high voltage systems; power supplies; magnets; digital and analog circuits; vacuum systems; electronic control systems
- Ability to use and interpret diagnostic information provided by electronic test equipment, such as oscilloscopes; spectrum analyzers; voltage and current meters; and computerized error diagnosis systems
- Ability to read and interpret electrical component schematic and wiring diagrams
- Ability to troubleshoot and repair faulty electronic systems and components
- Basic understanding of computer based control logic systems and software
- Ability to travel to other PTS sites with minimal notice to assist with troubleshooting and repair activities on other PTS systems
- Ability to work a flexible work shift

Mental/Physical Skills:

- Excellent interpersonal skills
- Understand and work within the 'team' concept
- Takes initiative and responsibility for professional growth and educational training
- Ability to troubleshoot complex electrical and software system component failures

Working Conditions

- Work is performed mainly in and around a proton accelerator vault, with no natural light
- Systems to be worked on include accelerator, beam line, gantries, patient positioners, imaging system, beam delivery nozzles and associated subsystems, all of which contain high voltage
- Work is in and/or around controlled radiation areas

Fiscal Responsibilities

- Responsible for using ProTom resources in an efficient manner, and in identifying cost savings (or avoidance) opportunities

Training Requirement

- Complete training on, and stay current with, ProTom's Quality Management System and all corporate policies, including specifically Human Resources and Finance policies, and the Employee Handbook
- Technical service training on the operation, testing, maintenance and repair of the various systems and products as installed at customer locations



Salary and Benefits

- Salary range: Industry Competitive
- Company benefits package to include: health, dental, long term disability, life insurance
- Bonus potential
- Participation in company stock option program
- Holidays and paid time off