



ProTom International Holding Corporation

Senior Accelerator Physicist

Summary:

The Sr. Accelerator Physicist will interact with a focused team of engineers and physicists in the development of a variety of subsystems related to ProTom International's **Radiance 330**[®] proton therapy system.

Principal Responsibilities:

- Participate in the design of beam optics
- Assist in the development of beam line diagnostics, hardware and software
- Develop beam injection and extraction simulations including space charge effects
- Write beam control algorithms
- Perform development work on beam scattering and focusing effects
- Create software simulations for development and analysis and control of the accelerator systems.
- Create software simulations for development of magnets for various subsystems of **Radiance 330**.
- Interface with technical and clinical staff at customer site to educate customer on operation of the **Radiance 330**; and ensure compliance with customer QA and physics policies and procedures
- Develop tests and conduct measurements required to evaluate and improve beam delivery
- Work closely with ProTom's technical partners and OEMs to ensure beam quality and beam delivery precision
- Participate in development of QC systems

Qualifications:

- PhD. degree in physics
- Minimum of 10 years demonstrable experience, beyond the graduate school, in some or all of the principal responsibilities



Skills/Abilities/Competencies:

- Sound working knowledge of physics principles behind the operation of particle accelerators and beam lines, including aspects of beam optics, beam dynamics and diagnostics
- Demonstrable hands-on capability in the operation and component development of accelerator systems considered a plus

Mental/Physical Skills:

- Excellent interpersonal skills
- Ability to work in a small team
- Ability to work with client's technical and clinical staff
- Self-motivated
- Takes initiative and responsibility for professional growth and education/training

Working Conditions:

- Work is performed often in and around an accelerator vault; in radiation-controlled areas; and with no natural light
- Systems to be worked on include accelerator, beam line, gantries, beam delivery nozzles and associated subsystems
- Approximately 20 % travel may be required; traditionally concentrated at client site, post installation
- Working flexible hours and hours in excess of 40 hrs per week will be required, particularly during install, testing and commissioning at client site

Fiscal Responsibilities:

Responsible for using ProTom resources in an efficient manner and identifying opportunities for savings; participates in operating and capital budget preparation at direction of Physics SVP.

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.

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