



ProTom International Holding Corporation
Job Description: Senior Accelerator Physicist

Summary:

The Senior 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

Qualifications:

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