

Job Title: Accelerator Physicist

Competitive salary (commensurate with experience) + full benefits

Location: Salt Lake City, Utah (remote work considered)

Start date: ASAP

To Apply: Email resume and cover letter to recruiting@nusano.com

Position Summary:

The Accelerator Physicist will lead the continuing development, and future installation of the high-energy beam transport system for Nusano's RF accelerator. They will also assist with the specification and procurement of beam instrumentation. The Accelerator Physicist will interface with Nusano's internal science and engineering staff in addition to a number of external consultants and vendors. As the project moves from the design phase to installation, the Accelerator Physicist will support the quality control, alignment, and commissioning of the entire beam line.

Responsibilities:

- Review and finalize existing magnet lattice for beam transport
- Assist in the design of a 50 MeV, high average power ion linac
- Specify beam instrumentation requirements
- Interface with vendors to purchase diagnostics, magnets, and associated accelerator equipment
- Assist in the installation, alignment, and commissioning of linac, beam transport systems, and various other accelerator equipment
- Assist in the interfacing of the beam with target stations
- Assist in Control System Development
- Train Accelerator Operators and Ops. Coordinators on accelerator operations, tuning and machine parameters
- Support 24/7 accelerator operations as needed

Minimum Requirements:

- Master's degree in Physics, Electrical Engineering, or closely related field
- Direct experience with beamline transport codes, especially elegant or TraceWin
- Familiarity with basic accelerator subsystems (vacuum, RF, magnets, etc)

Preferential Experience:

- Doctorate degree
- Design and testing of magnets
- Work with high-intensity ion sources
- Hands on experimental work
- Programming in EPIC
- Experience with pulsed-power magnets

Physical Requirements:

- Work to be conducted in both an office environment and the production facility.
- Must be able to sit for long periods of time. Frequent use of computer with repetitive use of keyboard, mouse and manual dexterity.
- 2-4 weeks of travel per year for visiting vendors and attending conferences



About Nusano:

We are an early phase company committed to advancing the way radioisotopes are made. Nusano represents the first true turning point in the history of the field of radioisotope manufacturing since the advent of the cyclotron. By augmenting a standard linear accelerator with a proprietary high-current multiparticle ion source, our solution can generate radioisotopes with a very high yield and specific activity and is poised to become the state-of-the-art technology.

Our technology is uniquely suited for the generation of therapeutic radioisotopes. These radioisotopes, while historically challenging to produce in quantities and for the cost that allow for robust growth of the field, are on the precipice of widespread clinical use for personalized cancer therapy. Nusano is uniquely positioned to support and foster the growth of this important application.

Nusano is founded on the idea that the greatest scientific asset isn't raw material or technology but vision — and the freedom to follow that vision wherever it leads. So while the treatments of tomorrow will surely be built on advanced physics and sophisticated chemistry, they'll be driven by creativity and fueled by spontaneity. In the world our technology enables, neither will have limits.