



Title: Accelerator Mechanical Engineer

Location: Valencia, California

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.

DETAILS

Nusano has an exciting opportunity for an **Accelerator Mechanical Engineer** at our Valencia, CA facility. The Accelerator Mechanical Engineer will be responsible for leading engineering efforts for projects involved in the development of a heavy ion accelerator. The role will be assigned projects and be asked to gather required information, host meetings, coordinate the project, conceptualize solutions, generate a CAD model, run required simulations, generate engineering drawings, evaluate manufacturing methods and work with manufacturers, coordinate qualification, oversee integration, and generate reports on the design.

DUTIES AND RESPONSIBILITIES

1. Assist in the design and engineering of an ion linear accelerator and target irradiation stations
2. Create detailed 3D models and 2D engineering drawings
3. Perform vacuum conductance calculations
4. Simulate and analyze models for both flow and thermal performance
5. Work with outside vendors on the manufacture and sourcing of components
6. Develop and conduct formal acceptance procedures for outsourced components
7. Assist in the assembly and alignment of linear accelerator



EXPERIENCE & QUALIFICATIONS REQUIREMENTS

- Experience with high vacuum chamber design and pumping technology
- Four years employment as Mechanical Engineer in similar environment
- Proficiency with SolidWorks CAD modelling and simulation
- Familiar with GD&T and drafting per ASME standards
- Basic computer proficiency (Microsoft Office, Google, etc)

PREFERRED EXPERIENCE & QUALIFICATIONS

- Manufacturing (welding, brazing, and machining)
- Precision measurement and inspection
- Background in research environment
- Hands on work with vacuum, high-power RF, electromagnets, or particle accelerators in general

EDUCATION

- Bachelor's degree in Mechanical Engineering at a minimum.

PHYSICAL REQUIREMENTS

- Must be able to lift, push and/or pull a maximum of 50 pounds.
- Work to be conducted primarily in an office environment with limited exposure to production and a warehouse environment.
- Must be able to sit for long periods of time.
- Frequent use of computer with repetitive use of keyboard, mouse and manual dexterity.

APPLICATION

We ask any interested applicants to submit their resumes to Recruiting@nusano.com.