



## Senior Mechanical Design Engineer – Solid Works

Are you experienced in complex precision system design and ready to take your career to the next level? Are you a pro at Solid Works? Are you looking for a town with access to outdoor recreation and houses are affordable?

Four Nine Design is a dynamic, fast-growing company providing innovative cryogenic products for the quantum physics research. See our products at [www.fournineproducts.com](http://www.fournineproducts.com).

We're located in the beautiful Rocky Mountains in Billings, Montana. We've got great access to skiing, hiking, camping, hunting, fishing - without the crowds! Billings is a professional town with a university (MSU Billings), great restaurants, breweries, symphony, concerts, and family activities. Come live in Big Sky country with a driven, groundbreaking, authentic team.

**Position:** We are looking for a full-time, ambitious, confident, and motivated mechanical engineer to join our customer facing design team. This person will work directly with the end user to develop concepts and converge on a final design. This engineer will then release the design to manufacturing, build, test, and organize a successful delivery and installation of the product.

### Key Responsibilities:

- Develop cryogenic system components from initial concept through engineering analysis, 3D modeling and design, to final manufacturing drawing creation.
- Work in a cross functional team with manufacturing vendors and in-house machine shop to build released designs according to machining tolerances and secondary processes specifications.
- Manage projects to completion ensuring the highest level of quality and on time delivery to customers.
- High level understanding of design for manufacturing.
- Contribute to continuous improvement in engineering and manufacturing processes.

### Required Qualifications:

- BS in Mechanical Engineering or Physics. If Physics, must show heavy mechanical design background and experience.
- Three to five years of mechanical design engineering experience and/or experience designing cryogenic vacuum systems.
- Minimum of three years' experience with Solidworks design, assembly, and drawings.
- Motivated, self-driven, organized.
- Strong interpersonal and communication skills.
- Previous experience working in manufacturing company.
- Willing to travel nationally and internationally (<5%).

To apply, please send your resume and short bio to [coral@fournineproducts.com](mailto:coral@fournineproducts.com).



**Preferred Qualifications:**

- Experience/familiarity with precision machining and machine tools (lathes, vertical mills, drill presses, etc.)
- Electrical skills, such as soldering, wiring, enclosure design. Also, a foundational understand of basic circuits.
- Experience with Python scripting language.

**Salary and Benefits:**

- Salary Range \$60,000 to \$100,000 depending on experience and education.
- Retirement Plan/Paid Vacation and Holidays.

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