



## **Mechanical Engineer (Implantable Device Development)**

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Have you ever wished there was a way to bring your experience with implantable silicone or epoxy structures to the emerging fields of neuroscience research or Brain Machine Interfaces? Have you ever wanted to increase the complexity of your designs by integrating complex electronics to really impact the lives of high-need patients?

Would it be exciting to have your engineering lead pass a project off to you with little direction and lots of autonomy, counting on you to have creative output without overbearing oversight?

Do you like designing, creating, prototyping, and revising until you get something perfect? Not good enough. I said perfect!

Do you want to make a difference? Do you like the idea of contributing to an engineering team that has their hearts (and minds and hands) set on improving the lives of underserved patient populations?

Want to work with the coolest gang of engineers (yep, I said it, we think engineers are cool) ever? Talk shop and hammer out ideas with them? And then head out to Curry Thursday with them to share some Massaman?

We are looking for a friendly, creative, deadline-driven Mechanical Engineer to join our tight-knit team of experienced professionals to help design and manufacture the next generation of implantable medical devices. This is a full-time, exempt position, starting immediately in our Salt Lake City office. This position reports directly to our CTO, Scott Hiatt.

### **About this Position**

Here's what we are looking for. If you've got some or all of these under your belt, then you've got the chops:

- Required: 2-5 years implantable device development, molded, cast, or injected epoxy or silicone. This is a must!
- Major Preference: Experience with implantable stimulation systems (such as DBS or Spinal stimulation systems) header/connector design
- Experience with embedding wires or sensors in implanted devices
- 2 years professional experience with class II and/or III medical device design
- 5 years professional experience with SolidWorks
- 2 years professional experience with SolidWorks PDM
- Experience writing technical documents and working drawings for manufacturing (if you have some examples, we would love to see them)
- Experience with production Tooling design (again, we would love to see examples)
- Portfolio of completed projects, drawings, and documentation (where possible).
- Mechanical Engineering or Biomechanical Engineering degree
- Non-negotiable: High level of creativity and a demonstrable ability to solve complex problems

- Engineering Leadership (though not required, we are looking for strong player-coach leaders)

Here's what you'll do:

- Create, design and prototype new fully implantable medical devices and other additions to Ripple's product lines
- Create mechanical designs for our next-generation neurostimulators
- Learn about neuroscience and Brain Machine Interfaces
- Lots and lots of 3D modeling in SolidWorks
- Rapid prototyping using 3D printing, machining, SLA
- Documentation of new designs
- Design Validation
- Help transfer your designs into production workflow. You will collaborate with our manufacturing team to optimize production.
- Be thoughtfully constructive: We are looking for solution-oriented team players who can check their egos in order to collaborate to overcome obstacles.
- Genuinely care. At Ripple, we care deeply about each other and treat each other with respect, kindness and patience. We care about the products we create and demand the best of ourselves.
- Believe in Quality! All Rippers are committed to making everything we build or design exceptional by being proactively involved in the quality process.
- Have opportunities for skillset growth and increasing technical knowledge

Here's who you'll do it with:

- Our Mechanical and Electrical Engineering teams will work closely with you on project design and revisions. These guys are super smart and always willing to come up with the best solution. They'll invite you on their Monday Del Taco runs too!
- Our Management team. You'll get to work directly with our CEO – Andrew, CTO – Scott, and CSO – Danny. No over-stuffy hierarchy here. Want to get involved on medical device design and documentation? Danny and Scott are waiting to hear your thoughts! Thought of a new way to manufacture implant housings that takes half the time? Chat about it with Scott and Andrew!
- Our Manufacturing team. Because who's making all this stuff anyway? Our stellar manufacturing crew will work closely with you on documentation and production. If you're looking to listen to some good tunes while you're working, this gang has you covered. They're always playing the best jams!

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. We are a team. We pitch in and help each other on all projects. If you are "above" doing certain tasks, Ripple is definitely not a good fit for you.

Ripple is committed to equal employment opportunities, and does not discriminate on the basis of any protected class defined by the Equal Employment Opportunity laws. Yeah, I know. You've heard it a million times, but we really do mean it. We find value in a diverse workplace. We are

totally willing to make reasonable accommodations to enable individuals with disabilities to perform this job.

### About Ripple

Ripple creates life enhancing neurotechnology for research and medical applications. Our products integrate cutting-edge hardware and software elements designed to read and write from the human nervous system. We are funded by our sales revenue and grants from NIH, DARPA, and the Congressionally Directed Medical Research Program (\*sigh\* that was a mouthful.)

At its core, Ripple is a community of driven people who are choosing to work together on really hard problems. We are builders and creators and want to see our efforts impact the world for good. Those who thrive at Ripple are self-motivated and work well independently. There are times of intense effort and individual contribution and sacrifice, but we know that what we are building will take time, and living a fulfilling life outside of Ripple will keep team members deeply engaged.

Ripplers are given high-level tasks and a bit of context. Then, they are expected to seek out information, standards, develop new skills and design something great with a team of similarly dedicated and driven colleagues.

At Ripple, team members are often asked to do things they have never done before. We expect a lot of chances to hear differing opinions, and to be surrounded by people who deeply care about our projects and are interested in the big picture of what Ripple is trying to accomplish. Ripplers are encouraged to take time to help and teach others, and to listen, learn and change their own views until a solution emerges.

We expect great ideas to come from everyone at Ripple. We are passionate and friendly, patient and thoughtful, and all agree to not work with jackasses (no matter how great you think you are). All of us must actively contribute to the quality of our processes and products through thoughtful effort. There is no shortcut to making implantable medical devices or cutting-edge neuroscience tools, but with a strong team of friends building them together, it is worth it.

### What do you think?

Are you into it? Does this job posting make you warm and fuzzy inside? Are you already on our website checking out our products to see what you can do to make them even better?

Then what are you waiting for? Send your resume on over to [jobs@rppl.com](mailto:jobs@rppl.com) with a cover letter explaining your interest in this position, and in working for Ripple.

We are excited to hear from you!