



Implant Process Engineer

Have you ever wished there was a way to bring your experience with implantable silicone or epoxy structures to the emerging fields of Bioelectric Medicine and Brain Machine Interfaces?

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?

When you see a medical device with crystal-finish epoxy, do your eyes widen and your heart swell? So satisfying! And isn't that feeling amplified when you see the production team make an equally beautifully casted device? Holler to the engineers who know how to make beautiful AND manufacturable products!

When you're working with production staff during manufacturing transfer, are you an ally and advocate for all teams involved?

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?

Have you ever been completely sure about something and then found you were totally off in hindsight? Have you questioned or changed a fundamental world view (think ethics, politics, or religion)? Have you been humbled by the world around you?

Are you someone who wants the best solution, even if it's not the solution you proposed? If not, Ripple probably isn't the place for you. We value open, respectful, productive challenges and criticism of our ideas and plans (and yours). We all show up for each other by giving our best, and letting the best plans and ideas win.

We are ready to take our next big steps. This will require us to grow our team of top flight, ready-to-grow, ready-to-participate in the upside, domain experts. We are ambitious; we want to be key players in delivering the promises the world of neuroscience has to offer by translating, and helping our clients translate, ideas into therapies that restore quality of life and bring hope for debilitating conditions. To do this, we need problem solvers who want to own their designs and processes and stand proud, empowered, and responsible for their results.

We are looking for a friendly, creative, deadline-driven Implant Process Engineer to join our team of experienced professionals to help design 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 Engineering Technical Lead and Principal Materials Engineer, Alex Thiessen.

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

- 5 years' experience in implantable device development, molded, cast, or injected epoxy and silicone. This is a must-have!
- 2 years' professional experience with Class II and/or III medical device design.
- 5 years' professional experience using CAD software (SolidWorks highly preferred) to make models for epoxy and silicone processes.
- Experience working in an ISO 13485 certified environment.
- Experience in cleanroom production process development.
- Experience writing technical documents and working drawings for manufacturing.
- Process validation of implantable devices.
- Open-mindedness. Do you appreciate the opportunity to collaborate with others, learn new ideas, and have your mind changed? If yes, bear with us. Keep reading!
- Deep reserves of grit and optimism. We need someone who doesn't get defeated easily and steps up to challenge after challenge with a positive outlook.

Preferred

- Experience with implantable neuromodulation systems (such as spinal, vagal nerve, deep brain or cochlear stimulators).
- Laser welding and laser sealing process experience.
- Hermetic testing process experience.
- Sterile packaging process experience.
- Experience using SolidWorks PDM.
- Experience with production tooling design (we would love to see examples).
- Mechanical Engineering or Biomechanical Engineering degree.

Here's what you'll do:

- Create, design and prototype new fully implantable medical devices and other additions to Ripple's product lines
- Be a humble badass. What's a humble badass? It's someone who is extremely competent and also kind and open to new information. It's someone who will do excellent work regardless of recognition because the work they are doing matters. We also believe a humble badass understands how complex problems can be, but knows how to tackle them; it is someone who is competent, but also knows there is ALWAYS more to learn.
- Learn about neuroscience and Brain Machine Interfaces
- Mold and casting process designs in SolidWorks
- Engage problems and drive to solutions. When you hit a roadblock, do you simply report the issue to your manager to have it resolved, or do you start digging in to find solutions?
- Documentation – on current and future designs
- Design and Process Validation on your designs
- Help transfer your designs into production workflow. You will collaborate with our manufacturing and quality team to optimize production.
- Maintain and improve design of existing hardware for Ripple's current product lines

- 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.
- Have opportunities for skillset growth and increasing technical knowledge

Here's who you'll do it with:

- Alex, our Engineering Technical Lead and Principal Materials Engineer, also known for his incredible bread-baking skills and his love for Moab. You will report all of your successes (and rare but occasional failures) to him. He will help you understand the priorities within your projects and he will provide direction, but not too much direction. How can you be creative if you're being micromanaged?
- Our growing Mechanical Engineering team including Max, Paul, Jordan, and Harrison who are currently developing a human research product line, and developing laser welding and laser hermetic sealing processes, and bringing new industrial design to our external medical devices. When these guys aren't killing the engineering game, you can find them lifting weights, break dancing, renovating homes, or cooking something delicious in the kitchen!
- Our Electrical Engineering team 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 Project Coordinators, Henry and Elyse. They will help you see the whole picture of each project you work on. They can shed light on project timelines, project priorities, and how our technology is being used.
- Our Manufacturing team. Because who's making all this stuff anyway? Our stellar manufacturing crew will work closely with you on documentation and production. This team is the best lot of technicians you can find – they are passionate, hard-working, and great people to spend your work week with!

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. We take pride in having a diverse workplace. We are also willing to make reasonable accommodations to enable individuals with disabilities to perform this job.

About Ripple

Ripple delivers game-changing neurotechnology that greatly advances human health and potential. 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, contract design and engineering business, and grants from NIH and DARPA.

Executing this mission requires smart ideas, amazing people, and lots of hard work. To succeed we strive daily to find the best in ourselves as individuals and endeavor to approach our work together with intention, sincerity, and passion.

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. If you are looking for micromanagement, this is not the place. We encourage individuals to engage in finding solutions to the problems we encounter.

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 building them together, we can do it.

Next Steps

What do you think? Does this job posting make you warm and fuzzy inside? Are you already on our website checking out our products to see what kind of projects you'll be working on?

Then what are you waiting for? Send your resume on over to jobs@rppl.com with a cover letter explaining your interest in this position, and in working for Ripple. Tell us why this job posting spoke to you.

We are excited to hear from you!