



Mechanical Engineer

Permanent position, Paris (France), starting September 2025

About Us

At Isentroniq, we are building the future of computing, not in theory, but in hardware. We enable quantum computing at scale by developing superconducting circuits solutions to increase the qubit count by more than a 100x at fixed cost and size of infrastructure.

We share knowledge openly, challenge ideas constructively, and stay focused on what matters. Our values – gritty ambition with humility, radical candor, methodical audacity and sense of belonging – are at the core of how we work and grow.

If you're passionate about transformative innovation, and ready to build what quantum needs to go further, join us and let's shape the future together.

The Role

We are seeking a **Mechanical Engineer** to build and run the many mechanical projects and aspects of our quantum machines and wiring, to turn ideas into running products and machines. This role will involve building and operating advanced cryogenic measurement setups, leading the mechanical design and realization of components for high-throughput quantum testing, managing the day-to-day technical operations of the lab in close collaboration with quantum and microwave engineers, and then evolve into building new tools and machines to test and improve our products.

Key Responsibilities

- **Build the lab.** Design, purchase and Install two cryogenic measurement setups, and design, purchase and install the many mechanical parts inside the cryostat, in close connection with quantum engineers.
- **Realize cryogenic hardware for high-throuput quantum tests.** High-density sample holders and wiring and switch layout to allow for massively parallelizable quantum tests, in close connection with quantum engineers.
- **Owner of mechanical aspects of the wiring product.** Make the physical design of the wiring product, and of its components, and source the mechanical pieces, in close connection with quantum engineers.
- **PCB mechanical designs.** Realize the mechanical drawings and the mechanical tests of the printed circuit board designed by the microwave team.
- **Run the lab.** Handle mechanical supplies (tools, screws, consumable parts). Prepare sample packaging and run cryostat cooldowns. Be the interface with the infrastructure provider. Run the mechanics, soldering, bonding stations.



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Who You Are

We're looking for a talented, mechanical engineer doubled with a handyman, curious to work in a deep tech environment. You love building mechanical systems, from design to physical assembly and running them. You love working with teams of vastly different expertise.

Key Qualifications

- **Bachelor's or Master's degree** in Mechanical Engineering or a related field.
- **Minimum of 5 years of experience** as a Mechanical Engineer with a strong understanding of mechanical principles relevant to complex systems.
- **Expertise in Mechanical Prototyping & Supply Chain Management.** Expertise in CAD software for mechanical design and generating manufacturing-ready drawings. Proven ability to manage complex assemblies and oversee the full lifecycle of mechanical component procurement.
- **Extensive Hands-on Workshop & Assembly Skills.** Highly proficient in utilizing a wide array of workshop tools and techniques for fabrication and measurement. Possesses significant experience in independently building and effectively troubleshooting intricate mechanical systems with a strong practical problem-solving approach.
- **Excellent Communication & Collaboration Skills:** Proven ability to communicate effectively (written and verbal) and collaborate in english within multidisciplinary, international teams, including scientists and engineers.
- **Project Organization & Tracking Abilities:** Experience with planning, organizing, and tracking tasks related to the development and installation of mechanical systems.

Bonus

- **Knowledge of stress and strain simulations** (e.g., FEA software) and conductive heat transfer principles, ideally with application to cryogenic environments.
- **Experience with cryogenic systems.** Low-temperature, vacuum systems, cryogenic fluids.
- **Experience in wiring and interconnects**, especially its mechanical aspects in complex systems.



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Personal Attributes

- **You are autonomous, ambitious, organized**, and enjoy driving a project.
- **You are a builder.** You are hands-on, enjoy discomfort and are not afraid to do make things from scratch: complete setups, scripts, purchases, processes, etc.
- **You embody an engineer's mindset**, with meticulous attention to details and a systematic approach to problem-solving.
- **You value transparency and open communication**, fostering trust and collaboration. You enjoy having your ideas and suggestions be boldly challenged and you feel free to speak about achievements and mistakes.
- **You are eager to learn and grow.** You recognize the strength of teamwork. You feel challenged by competing alternative approaches, instead of looking down on them.
- **You thrive in an environment of high expectations**, pushing boundaries to achieve breakthroughs.

What We Offer

- A unique opportunity to shape the technological direction of a cutting-edge start-up.
- The unique chance to develop a scale-up-enabling products and the quantum test machines that will drive the company's success.
- A collaborative, mission-driven culture with a focus on personal and professional growth.
- Competitive salary and equity package.

How to Apply

Please send your CV and a cover letter outlining your relevant experience and motivation to careers@isentroniq.com. Applications will be reviewed on a rolling basis, so we encourage early submissions.