Job Title: **Hardware Designer**
Reference: ENG-044
Date: October 14, 2021

About EERS

Founded in 2014, EERS Global invents, designs and tests in-ear advanced technologies to accelerate go-to-market of game-changing products. Our cutting-edge technology augments the human experience in communication in challenging situations, hearing protection, biometric and wellness monitoring, brain computer interfacing, and is repeatedly validated in the field. Some of our technologies have become an ANSI Standard.

Through co-development partnership, we bring a stream of new products to market. Beyond prototyping, we produce scalable, easily transferable and manufacturable products, taking the development execution risk out of the equation.

As a global research centre in acoustics, audio and biosignal processing, in-ear technologies and product development, we attract high-caliber scientists and engineers. Our head office is located in the heart of downtown Montreal. We offer competitive salaries as well as a great team environment. EERS Global is an equal-opportunity employer committed to diversity.

Job Description

We are looking for a **Hardware Designer** to join our multidisciplinary R&D team! The designer will be involved in all phases of these projects, and is expected to carry out diverse tasks from high-level hardware design to hands-on debugging. We are looking for a versatile and passionate team member who can take ownership of multiple tasks.

Duties and Responsibilities

- Collaborate with cross-functional R&D teams on new product designs.
- Produce schematics, PCB layouts, BOMs, wiring diagrams and manufacturing packages.
- Test and validate prototypes to characterize its performance (ex: electric, acoustic, temperature, etc).
- Maintain accurate documentation throughout the development and validation phases.
- Learn, own, document and carry out maintenance on existing PCB designs.
- Work with manufacturers to build prototype and production units.
- Troubleshoot and fix hardware issues, improve production yield.
- Design test fixtures for device manufacturing.
- Train electronics and production technicians.
- Lead and participate in design reviews.
- Work with external laboratories for EMC/EMI testing and safety certification.

Education
- Bachelor's degree in electrical engineering, or equivalent combination of education and experience.

Qualifications
- 5+ years of experience designing circuit boards.
- Creating complex, high-density, multi-layer PCBs.
- Debugging hardware faults using lab equipment (ex: oscilloscope, spectrum analyzer, logic analyzer, etc).

Nice to Have
- Analog and/or audio circuit design and troubleshooting a major asset.
- Integration of radio-frequency components a major asset.
- EMC testing and troubleshooting.

Soft Skills
- Great communication skills in English and French.
- Ability to efficiently communicate design ideas and solutions.
- Strong writing and documentation skills.
- Ability to work both individually and as part of a team in a fast-paced environment .
- Excellent time management skills and ability to contribute to multiple projects simultaneously.

If you are meticulous, a problem solver, and a team player, you will feel right at home. Please send your cover letter and resume to cv@eers.ca OR submit them through our [EERS Career platform](#).