



Job Title: **Mechanical Engineer**

Reference: **ENG-047**

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 and some have become an ANSI [Standard](#).

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

A global centre of excellence in research in acoustics, audio and biosignal processing, in-ear technologies and product development, we attract high-caliber scientists and engineers to our team. 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

Reporting to the Senior Mechanical Engineer and Director of Biomechanical Research and Design, the Mechanical Engineer will be tasked with supporting the design production by creating and testing jigs and assisting the acoustic, software and industrial design teams in creating requested hardware. The Mechanical Engineer will play a crucial role in product testing and help with decision making.

Duties and Responsibilities

- Develop and implement test fixtures/jigs and protocols to evaluate all aspects of the product or component including its performance, reliability, and usability.
 - Design and develop mechanical structures, enclosures, and electronics to meet product specifications.
 - Create 3D CAD models and 2D working drawings from sketches, mark-ups and/or design.
 - Participate in internal brainstorming and product design.
 - Execute various testings and create reports for the Mechanical Lead to help with the design decision.
 - Operate and manage 3D printers as well as analyze 3D models from scanned ear impressions.
 - Fabricate and assemble prototypes to iterate designs and evaluate concepts, ensuring a seamless user experience.
 - Manage inventory of product prototypes.
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Education and work experience

- Bachelor's or Master's degree in Mechanical Engineering
- 3-5 years of work experience in mechanical design, automation or in a related field.

Minimum Knowledge, Skills & Abilities:

- Strong Knowledge of 3D modeling and parametric design – SolidWorks, Rhino Grasshopper 3D
- Familiar with open-source electronics platforms such as Arduino
- Experience in Python
- Strong manual and motor dexterity to build fixtures and run physical tests
- Strong mathematical skills with geometry
- Good at developing and executing test plans
- Good at managing, analysing and visualising data
- Familiarity with statistical methods
- Excellent analytical and problem-solving skills
- Strong time management and organizational skills; ability to handle multiple tasks, be punctual, and respect deadlines
- Ability to work both autonomously and collaboratively as part of multi-disciplinary teams
- Self-motivated, proactive and focused
- Motivated and willing to engage in formal continuous learning courses
- Proficiency with the Microsoft Office Suite (Word, Excel, Outlook)
- Effective written and verbal skills in English and French

Nice to have:

- Mechtronics or Electrical Engineering skills
- Experience with Computation Fluid Dynamics
- Experience using a 3D printer and open-source slicing applications such as Cura and Preform
- Experience with MatLab, Comsol Multiphysics, and ANSYS simulation software
- Experience in PolyWorks

Please send your cover letter, a CV or resume, and contact information for two references to jobs@eers.ca OR submit them through our [EERS Career platform](#).
