



Job Title: **Audio R&D Scientist – Audiologist**

Reference: **ENG-034**

Date: **March 19, 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 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 Principal Audio R&D Scientist, the **Audiologist** will use their audiology related knowledge around hearing tests (Bekesy, Hearing in noise test) to assist in implementing field audiometry capabilities on advanced hearing protection devices. The ideal candidate is familiar with the MATLAB environment, has experience working with human participants, and is knowledgeable in related acoustical concepts. The ideal candidate also has the ability to take ear impressions, work with probe microphones and with ear scanning technologies.

The Audiologist is responsible for providing audiological expertise and support in the research and development EERS' initiatives. Taking an active role to work collaboratively with multiple contributors and applying established audiological principles to scientific studies.

Duties and Responsibilities

- Conduct literature reviews, summarize and communicate audiology and hearing health related standards.
- Work with the Audio R&D team to put together the test hardware to conduct custom hearing test on human participants.
- Put together a MATLAB framework to deliver field audiometry test in a controlled, including a graphical user interface.
- Identify, recruit and qualify study participants
- Plan, coordinate and execute tests on human participants.
- Objectively compare custom field audiometry with standard audiometry practices.
- Methodically design a test procedure to characterize the effect of masking on field audiometry.
- Analyze, interpret and communicate findings the gathered data using statistical methods.

Education and work experience

- Master's level degree in Audiology
- Master's degree with strong research track record, relevant publications, projects and work experience in Audiology
- Member of Quebec's Professional Order—the Ordre des orthophonistes et audiologistes du Québec

Minimum Knowledge, Skills & Abilities:

- Ability to conduct research involving human participants.
- Knowledge of MATLAB
- Knowledge of statistical analysis and modelling
- Knowledge of DSP concepts such as time-frequency analysis and filtering
- Knowledge of using DAWs such as Audacity and Reaper
- Experience with sound and recording equipment such as microphones, audio interfaces, loudspeakers, digital mixing consoles
- Experience with automation and efficient workflows to analyze and process audio data
- Knowledge of Python or GUI frameworks is a nice-to-have

Additional skills:

- Effective written and verbal skills in English and French
- Good people and communication skills: ability to accept directions, provide and receive constructive feedback
- Strong technical aptitude: exhibit a structured and detail-oriented approach
- 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 and focused

If you are meticulous, a problem solver, and a team player, you will feel right at home. 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](#).