



Post-doctoral and PhD positions at the *Faculty of Industrial Engineering, Mechanical Engineering and Computer Science* and the *Faculty of Psychology* at the University of Iceland.

We advertise a post-doctoral/research scientist position and a PhD position at the University of Iceland. The positions involve a collaboration between the Faculties of Industrial Engineering and Psychology. The goal of the project is to develop tactile stimulation devices for cochlear implant users where the aim is to augment their auditory experience such as of music or speech. Three other partners, Oticon Medical, the Technical University of Denmark and the University of Southampton are also involved in the project.

The post-doc position is intended for 2 years and the PhD position is intended as a 3 year posting. The PhD position is related to the Nordic Sound and Music Computing University Hub (Nordic SMC - nordicsmc.create.aau.dk/). The project is a joint effort between the Icelandic Vision Lab (www.visionlab.is) at the Faculty of Psychology and the Acoustic and Tactile Engineering (ACUTE) Lab at the faculty of Industrial Engineering, Mechanical Engineering and Computer Science. This collaborative endeavour offers a stimulating academic environment and is headed by professors Rúnar Unnpórsson and Árni Kristjánsson. The laboratories have an extended network of collaborations, from all over the world and is in many ways unique in this international profile.

The successful candidates will join this vibrant community of graduate students, post-docs, and faculty who all work on varied aspects of haptic, auditory, and visual perception. The laboratories have extensive experience with high quality psychophysical studies and are well funded with grants from the Icelandic Research Fund, NordForsk, The European Research Council and the Research Fund of the University of Iceland. There is good access to necessary equipment for the studies. The labs have high-end equipment for EEG, eye movement studies (EyeLink 1000 Plus), a recently installed Anechoic chamber (5mx4mx3m), in addition to acoustic equipment such as a KEMAR mannequin, HRTF measurement apparatus, multi-channel audio equipment, and various microphones and software. The labs also have the required facilities for developing wearable tactile solutions – both for the wearable fabrics and the audio/tactile electronics in addition to a high-end virtual reality set-up.

Qualifications

Experience with experimental psychology software (PsychoPy/Psychtoolbox), programming (Python/MATLAB/C/C++), statistical software such as R, experience with electronics, are all definite benefits but promising candidates showing enthusiasm and willingness to learn these methods will also be considered. Applicants must be strongly motivated, be able to work independently and also possess good cooperative and communicative abilities.

How to apply

Starting July 15th we will start evaluating applications, but no firm deadline is set at this point. Please send applications or enquiries to haptics2020@hi.is.

The successful applicant is expected to start as soon as possible.

The application should include:

- A Letter of motivation describing qualifications and interest (max 1 page).
- CV
- Transcripts from University/ University College.
- Two letters of reference with contact information of the two persons that gave reference (name, position, email and phone number)

Salary will be according to the current collective wage and salary agreement between the Union of University Teachers and the Minister of Finance. Appointments to positions at the University of Iceland are made in consideration of the Equal Rights Policy of the University of Iceland. (http://english.hi.is/university/equal_rights_policy). The University of Iceland has a special Language Policy

(https://english.hi.is/university/university_of_iceland_language_policy)

About the University of Iceland

The University of Iceland (www.hi.is) is the largest teaching, research, and science institute in Iceland. The University is ranked among the top 250 universities in the world by Times Higher Education (2019), among the 200 best in Engineering and technology (2019).

About Iceland

Iceland consistently ranks as one of the best places in the world to live: (worldhappiness.report/ed/2019/), life satisfaction is among the highest in the world (www.oecdbetterlifeindex.org/topics/life-satisfaction), and the country is consistently rated the most peaceful in the world (<http://worldpopulationreview.com/countries/most-peaceful-countries/>). Iceland also ranks at the top of the world in terms of gender equality (www.weforum.org/agenda/2019/12/gender-gap-equality-women-parity-countries/). Applicants of any gender are strongly encouraged to apply.