

The **Acoustic Research Institute (ARI)** of the Austrian Academy of Sciences is offering a

PostDoc Position (any gender)

(full time, 40h/week)

ARI is an interdisciplinary research institution of Austria's leading non-university research facility. It undertakes top-level research in auditory cognitive neuroscience, psychoacoustics and experimental audiology, acoustic phonetics, musicology and bioacoustics, physical and computational acoustics, and mathematics and signal processing. The close interaction of the working groups allows innovative research approaches through the synergistic effects of multidisciplinary research.

The position is assigned to the EU Horizon 2020 granted project SONICOM, which deals with the way we interact socially within AR/VR environments. It aims to create a new generation of immersive audio technologies, specifically looking at personalisation and customisation of the audio rendering by means of machine-learning techniques. For more information, see the SONICOM website <http://www.sonicom.eu>

ARI's role within SONICOM is the work on immersion, integration, and the development of the SONICOM ecosystem. The successful candidate will work on integrating machine-learning algorithms improving personalized binaural audio, targeting various software and hardware approaches. The successful candidate will be supervised by Piotr Majdak (PI).

Responsibilities:

- Acquisition of behavioural data and electro-acoustic measurements, both in the context of personalized binaural audio.
- Development of machine-learning algorithms in the context of binaural audio.
- Communication of scientific results in scientific publications and at scientific meetings.
- No teaching duties.

Requirements and qualifications:

- PhD in a discipline related to the area of audio engineering.
- Profound knowledge of written and oral English is required.
- Flexibility, ability to work independently as well as in a scientific team are important.

The position is a full-time position (40h/week) initially limited to three years. The starting date is flexible and will depend on the candidate's availability. The annual gross salary is € 49.718,34 (before taxes, 14 payments a year).

Candidates are asked to send a CV, copies of relevant certificates, and a brief statement describing motivation, personal qualification, and research interests to Piotr Majdak (piotr.majdak@oeaw.ac.at), who also can be contacted for informal inquiries and questions. Applications will be accepted until an adequate candidate has been found. The first round of evaluation will start in the September 2021.

The Austrian Academy of Sciences values diversity and is committed to equality of opportunity.