

The **Acoustic Research Institute (ARI)** of the Austrian Academy of Sciences (**OeAW**) undertakes fundamental research in psychoacoustics, bioacoustics, acoustic phonetics, computational acoustics, and mathematics and signal processing. A close interaction between ARI's working groups allows innovative research approaches based on the synergy from multidisciplinary and creates concepts that stimulate the individual research fields. As part of the OeAW, ARI is focused towards high-impact research comparable to Max-Planck or CNRS institutes. Now ARI is currently offering a position as

ACADEMY SCIENTIST (F*M) for open source toolbox maintenance and development
(full-time, 40h per week)

We are looking for a scientist who will join the 'Mathematics and Signal Processing in Acoustics' group as well the 'Software Development and IT Administration' group. The successful candidate will also work closely together with the other working groups of the institute in a multi-disciplinary research context.

The duties of the successful candidate will be

- Maintenance of the open source toolboxes **LTFAT** and **AMT**. The Large Time/Frequency Analysis Toolbox (LTFAT) hosted by ARI is a Matlab/Octave toolbox for working with time-frequency analysis and synthesis. The Auditory Modeling Toolbox (AMT) is a Matlab/Octave toolbox intended to serve as a common ground for all-auditory modelling in Matlab or Octave.
- Assisting other researchers at ARI with the implementation of scientific models and methods.
- The further development of LTFAT (in cooperation with scientists from the Mathematics and Signal Processing in Acoustics work group) and AMT (in cooperation with scientists from the Psychoacoustics and Experimental Audiology work group). In this aspect new algorithmical/numerical ideas for time-frequency, signal processing, machine learning and / or frame methods, as well as new auditory models have to be developed, implemented and published.
- To a lesser extent, some standard IT duties will also be assigned to the applicant.

The candidate should be able to show

- A PhD (or equivalent degree) in mathematics, signal processing, computer science or psychoacoustics or a related field.
- Excellent programming knowledge in Matlab/Octave and C++.
- Scientific background in time-frequency analysis, signal processing, frame theory and/or auditory modelling.
- Potential to extend the LTFAT and AMT toolbox.

Details of Position

The annual gross salary will be € 43.828,40 before taxes according to the collective agreement of the Austrian Academy of Sciences. Depending on qualification and experience, the salary can be negotiated.

Expected starting date is May 1, 2020, but can be shifted up to one year. The contract will be for two years with the possibility of a permanent employment according to an internal evaluation process.

Contact

Applicants should submit a letter of application (describing their suitability for this position and interest in the project), and their CV via email to Doz. Dr. Peter Balazs peter.balazs@oeaw.ac.at, no later than **March 31, 2020**.

The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. The OeAW lays special emphasis on increasing the number of women in senior and in academic positions. Given equal qualifications, preference will be given to female applicants.