The Acoustics Research Institute (ARI) of the Austrian Academy of Sciences (OeAW), Austria’s leading non-university research facility, is offering a position for a

**PROJECT SCIENTIST/PreDoc (F*M)**
(part-time, 35h/week)

ARI is an interdisciplinary research institution of Austria’s leading non-university research facility. It undertakes top-level research in 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. ARI employs ~40 academic, technical and administrative staff. The position is assigned to the Mathematics and Signal Processing in Acoustics group in Vienna.

The successful candidate will work within the project “Merlin – Modern methods for the restoration of lost information in digital signals” -- for more information see the Merlin website. This project, led by Nicki Holighaus, is a bilateral cooperation between ARI and project partners at the Signal Processing Laboratory of Brno University of Technology in Brno, Czech Republic (Co-PI: Pavel Rajmic).

**Responsibilities:**
- Investigation and evaluation of multi-target tracking methods for detecting and tracking sources/components in audio signals.
- Application and implementation of said methods within algorithms for the restoration of distorted/defective audio data.
- Communication of scientific results in scientific publications and at scientific meetings.

**Requirements and qualifications:**
- Master’s degree or diploma with excellent scores in one of the following disciplines: mathematics, engineering, physics, computer science, or related fields.
- Previous experience with statistical digital signal processing, Bayesian statistics, multi-target tracking and audio signal processing is advantageous.
- Statistical and programming skills (e.g., Matlab, Python, etc.) are advantageous.
- Good knowledge of written and oral English is desirable.
- Flexibility, ability to learn fast and the ability to work independently as well as in a scientific team are very welcome.

We offer a part-time position, initially limited to February 28, 2021. The desired starting date is June 1, 2020. The annual gross salary is € 35,084,00 (before taxes, 14 payments a year) according to the collective agreement of the Austrian Academy of Sciences (OeAW).

Candidates should send a CV, copies of relevant certificates, names and full contact details of two referees, and a brief statement describing motivations, personal qualifications, and research interests by e-mail to Nicki Holighaus nicki.holighaus@oeaw.ac.at (mentioning Job ID: ISF034PM220), no later than May 15, 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.