



Acoustics Research Institute



OAW
Austrian Academy
of Sciences

Position Vacancy in the Acoustics Research Institute

Senior Research Fellow, acting Group Leader of 'Mathematics and Signal Processing in Acoustics'

Vienna, 2012-02-02

The Acoustics Research Institute of the Austrian Academy of Sciences is seeking a full-time research position for the acting group leader of the working group 'Mathematics and Signal Processing in Acoustics' starting in May 2012.

The Acoustics Research Institute (ARI) is an interdisciplinary research institution of the Austrian Academy of Sciences. A multidisciplinary approach is necessary for frontier research in acoustics. ARI conducts top-level research in psychoacoustics and experimental audiology; acoustics phonetics; computational acoustics; and mathematics and signal processing. ARI employs approximately 20 staff members and is directed by Dr. Peter Balazs. The close interaction between the working groups at ARI allows innovative research approaches based on the synergy effects of multidisciplinary research as well as concepts that stimulate the individual research fields.

We are looking for a Senior Research Fellow who will join and lead the 'Mathematics and Signal Processing in Acoustics' research group. The successful candidate will lead the research in application-oriented mathematics in acoustics in collaboration with Dr. Balazs. The group leader will work closely with the other groups of ARI in a multidisciplinary research context. He/she will organize the existing and future research projects and manage the resources in order to achieve research outputs. The candidate will also be responsible for developing research proposals and seeking and securing funding in collaboration with colleagues. It is expected that the successful candidate can fund its own position after three years.

This is a research position, no teaching duties are involved.

The applicant is required to be able to show:

- a PhD or equivalent in a relevant scientific discipline for 'Mathematics and Signal Processing in Acoustics' .
- experience in a least three of the following topics and openness to the others:

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BIC Code: BKAUATWW

- frame theory,
 - operator theory,
 - Gabor and wavelet theory,
 - time-frequency signal processing,
 - numerics of differential and integral equations,
 - phonetics,
 - psychoacoustics, and
 - acoustical measurement theory.
- excellent publication record in at least three of the above mentioned topics;
 - experience in leading research projects including initiating, sustaining, and pursuing a research plan,
 - a track record of successful grant capture;
 - the desire to travel and work in an international cooperative project.

Advantageous is also:

- ⤴ a habilitation or equivalent in a relevant scientific discipline.
- ⤴ experience in as many of the above mentioned topics as possible.
- ⤴ a multi-disciplinary publication record in the involved fields.

This full time post is available from 1 May 2012 and will be offered for a year (in exceptional cases a later start is possible). Given a successful cooperation with the group and the institute it will be prolonged by two years (until 30. April 2015). After an excellent fit to the institute, the working group, and ARI, as well as a successful grant proposal the contract will be prolonged for another three years (until 30. April 2018). It is the explicit plan to build up a long-term team for the 'Mathematics and Signal processing in Acoustics' group. The Austrian Academy of Sciences is currently implementing a *tenure-track* career plan in the near future. It is very possible that these positions can be considered to be within this plan, once this option exists.

ARI offers the unique possibility to conduct application-oriented mathematics research in close cooperation with different applied research disciplines as well as established researchers from various research fields (within and outside ARI). It offers the possibility to conduct ground breaking interdisciplinary research in a cooperative research environment. The gross salary will be EUR 43.073,98 a year at minimum according to the collective agreement of the Austrian Academy of Science with the willingness for a higher payment on the experience and qualification of the candidate.

Applicants should submit a letter of application (expressing their particular fitting to this position and interest in the project), their curriculum vitae, a list of 5 to 10 most important publications (with short summaries), a full publication list, and three recommendation letters with contact data until the 11th of March to:

Institut für Schallforschung (Acoustics Research Institute)
Wohllebengasse 12-14,
1040 Vienna, Austria

or per e-mail to peter.balazs@oeaw.ac.at.

The Austrian Academy of Sciences is an equal-opportunity employer, women and minorities are encouraged to apply.

After an initial ranking, we will invite the top-ranked candidate for an interview and presentation.