



The Professorship for **Audio Information Processing (AIP)** of the Technical University of Munich focuses on psychoacoustics, virtual and room acoustics, and hearing devices, like hearing aids and cochlear implants.

We are looking to fill a key position in our team in **Cochlear Implant Psychoacoustics** with a

PhD candidate or Post-doctoral research scientist

as a full-time position to start at the earliest convenient date.

MAIN RESPONSIBILITIES:

- Research on binaural hearing and auditory scene analysis with users of auditory neuronal prostheses (cochlear implants)
- Development of listening tests and stimulation strategies using direct stimulation of cochlear implants
- Measurement and modeling of neuronal processing and statistical analysis of the results
- Publication in English-language scientific journals and presentations at conferences
- Supervision of student projects, assistance with teaching and with raising external funding.

QUALIFICATIONS:

- (Interest in completing a) Doctoral degree (PhD) in one of the following areas: psychoacoustics, medical physics/audiology, neuroscience, audio technology, acoustics, signal processing, or a related area
- Knowledge and experience desirable in designing and analyzing psychoacoustic experiments, direct stimulation of cochlear implants, algorithms for hearing devices, auditory scene analysis, binaural hearing, models of the auditory system, audio signal processing
- Very good programming skills in Matlab, Python, or C/C++
- Excellent written and oral communication skills as well as experience with scientific publications
- Knowledge and command of the German language desirable for working with cochlear implant users
- Interest in basic research and the development of technical systems for medical applications
- Flexibility and good interpersonal skills
- Interest in supervising students, helping with teaching and raising external funds.

We offer...

you the opportunity to join an interdisciplinary team, to work with up-to-date technical equipment including sound booths equipped with direct stimulation hardware for cochlear implants, an anechoic chamber hosting an audio-visual virtual reality system, and to learn about the latest methods in hearing research. Our close interaction with the Bernstein Centre for Computational Neuroscience Munich (www.bccn-munich.de), the Munich School of BioEngineering (www.bioengineering.tum.de), the Graduate School of Systemic Neurosciences (www.gsn.uni-muenchen.de), the Hearing Research Network Munich, our extensive cooperation with industry and with scientific partners, and the numerous courses offered at TUM create an attractive environment with excellent perspectives for personal development. Please find further information at www.aip.ei.tum.de.

Employment is according to the state employees salary scheme (TV-L/E13) and is initially for 1 year and intended to be extended. Women are explicitly encouraged to apply. Severely handicapped persons will be favored if they are equally qualified. In principle, the position could also be filled part-time.

Interested?

I look forward to answering your questions on the phone (+49 89 289 28282) or by email. Please send your expressive application stating research interests **preferably by email** no later than **12 May 2019** to:

Prof. Dr.-Ing. Bernhard Seeber

Professorship for Audio Information Processing; Technical University of Munich; Arcisstrasse 21; 80333 Munich, Germany; Email: aip@ei.tum.de

Data Protection Information:

When you apply for a position with the Technical University of Munich (TUM), you are submitting personal information. With regard to personal information, please take note of the [Datenschutzhinweise gemäß Art. 13 Datenschutz-Grundverordnung \(DSGVO\) zur Erhebung und Verarbeitung von personenbezogenen Daten im Rahmen Ihrer Bewerbung.](#) (data protection information on collecting and processing personal data contained in your application in accordance with Art. 13 of the General Data Protection Regulation (GDPR)). By submitting your application, you confirm that you have acknowledged the above data protection information of TUM.