

Technische Universität Dresden (TUD), as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **Faculty of Electrical and Computer Engineering, Institut of Acoustics and Speech Communication**, the **Chair of Acoustic and Haptic Engineering** offers a project position as

Research Associate (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting at the **next possible date**. The position is limited until March 31, 2024. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). Balancing family and career is an important issue. The post is generally suitable for candidates seeking part-time employment. Please indicate your request in your application.

Tasks: The work includes research activities in the field of **psychoacoustics and virtual acoustics**. The main goal of the project is the development and evaluation of multimodal virtual environments for the investigation of audiovisual perception of vehicles in traffic situations. For this purpose, the current state of research on the topic of source-based audio recording methods of moving sound sources (motor vehicles) will be reviewed. Subsequently, existing methods for the acoustic reproduction of moving sources will be adapted or further developed. For this purpose, a powerful wave field synthesis system in a multimodal laboratory environment is available. The evaluation of the virtual scenes can be done using measurements and/or by means of perception experiments. The results will be presented and published in meetings, at conferences and in the form of scientific papers.

Requirements: Above-average university degree, if applicable PhD degree, in the field of acoustics, psychology, electrical engineering, mechanical engineering, physics, computer science or other related fields; high motivation and independent as well as scientific way of working. Open-mindedness for interdisciplinary cooperation and very good English skills. Candidates who can communicate fluently in both English and German are preferred. Experience in the field of psychoacoustics and statistics as well as virtual acoustics, audio technology and programming is an advantage.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your comprehensive application including the usual documents to: **TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Akustik und Sprachkommunikation, Professur für Akustik und Haptik, Herrn Prof. Ercan Altinsoy, Helmholtzstr. 10, 01069 Dresden, Germany** or via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf-document to ercan.altinsoy@tu-dresden.de. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>.