Hochschule für Musik Detmold is currently offering a position as

**Research Assistant (m/f)**

**in the field of Musical Acoustics**

(pay scale EG 13 TV-L)

for the duration of 10 months at the next possible opportunity. The position is focusing on investigations of sound transmission in early recording devices within the project “Technology of singing” which is a DFG funded fixed termed research project with a duration of 3 years.

Job description:

**Objectives:**
- Experimental analysis of the sound transmission path from singer to wax disc of a Grammophone recorder and from disc to the listeners’ ears using state-of-the-art methods including LDV and 3D directivity scans
- Completion of a hardware replica and a physically informed computational model for the sound transfer path from singer to disc and back to listener
- Collaboration in an interdisciplinary work group

**Tasks and methodology:**
- Review and train the use of current assessment methods in music acoustics research to voice signals and recording devices
- Perform and analyse voice and frequency response function measurements on singers and recording/reproduction devices
- Support the programming of a web-based program that allows to combine and auralize the combination of transfer paths of historic recording and reproduction of music signals

**Required skill set:**
All candidates must be fluent in spoken and written German or English. German knowledge is advisable. The research is highly multidisciplinary. An ideal candidate has a master degree in engineering or in an equivalent field (e.g. acoustics, sound engineer/Tonmeister, communication science, information science) and an adequate musical background, ideally in singing.
- Specific experience with acoustic measurements and/or simulation methodologies and software tools is an advantage.
- Knowledge covering acoustics of music instruments, recording devices and the human voice is highly welcome
- Knowledge of Matlab, Comsol and HTML 5 is an advantage.

The research activities will mainly be carried out HfM Detmold located in Detmold, Germany and might imply visits to music archives and participation on workshops and conferences. The successful applicant will have the opportunity to inscribe in the doctoral study program “Musikalische Akustik” at HfM Detmold.

Women are explicitly encouraged to apply and will be considered in accordance with German law (LGG). Part-time employment is possible. Furthermore, severely handicapped persons and equivalent as per German law (SGB IX) are encouraged to apply.
Please find detailed information on
- job description at www.hfm-detmold.de/service/karrieremoeglichkeiten/
  and
- project Technologie des Singens at www.hfm-detmold.de/tds or contact
  Prof. Malte Kob (kob@hfm-detmold.de).

To apply, please send a detailed CV together with a letter of motivation and names of
reference(s) by 31.12.2018 to

Rektor der Hochschule für Musik Detmold
Neustadt 22, 32756 Detmold
adding „Bewerbung DFG-Projekt TdS – wiss. Mitarbeiter ETI – vertraulich“