

Applications are invited for PhD positions to join Center for Music in the Brain (MIB) investigating neurobiological foundations of music at Aarhus University (AU).

Four PhD fellowships are available at the Center for Music in the Brain (MIB), Department of Clinical Medicine, Aarhus University (AU). The successful applicant will work on a 3-year research project examining the neural correlates of music in healthy individuals and/or patient populations using MRI (functional and structural), EEG and MEG, and be carrying out scientific research towards a PhD degree under supervision of MIB's PIs and in collaboration with other team members. We envisage the positions will start at 1st December, 2016.

The Danish National Research Foundation's Center for Music in the Brain (MIB) is an interdisciplinary research center at AU and the Royal Academy of Music, Aarhus/Aalborg, Denmark (RAMA) aiming to address the dual questions of how music is processed in the brain and how this can inform our understanding of fundamental principles behind brain functioning in general. With a strong foundation in music practice and theory at the highest level and a focus on the clinical application of music, MIB combines neuroscientific, musicological and psychological research in music perception, action, emotion and learning with the potential to test prominent theories of brain function and to influence the way we play, teach, use and listen to music.

MIB is headed by Peter Vuust and the center is organized around four research topics:

- **Perception**, led by Lauren Stewart (PI): centered around music perception and cognition
- **Action**, led by Peter Vuust (PI, Director): centered around the processing of musical rhythms and the interaction between rhythm and motor behavior
- **Emotion**, led by Morten Kringelbach (PI): centered around the relationship between music and emotions, and how and why music brings pleasure
- **Learning**, led by Elvira Brattico (PI): centered around the effect of music training, expertise and individual traits

MIB is situated in the Danish Neuroscience Center at Health, AU allowing close interactions with residing clinicians, medical scientists and patient groups. This gives easy access to MINDLab Core Experimental Facility with an impressive infrastructure providing an array of state-of-the-art technologies (PET, MRI, MEG, EEG, tDCS, and TMS), and extensive support. MIB is furthermore affiliated with RAMA's music teaching programs of the highest national and international levels, training students as professional musicians and high-level music teachers.

AU provides an inspiring international research environment with excellent neuroscience facilities, and is consistently listed among the world's best 100 universities. Aarhus is a dynamic university city located on the Baltic coast in continental Denmark and surrounded by nature; it offers very high living standards, rich cultural and intellectual life, outdoor activities, excellent restaurant/nightlife scene, etc.

Read more about MIB here: www.musicinthebrain.au.dk

We seek highly motivated persons with the following qualifications:

Essential criteria:

- A master's degree (120 ECTS), typically in the field of neuroscience, psychology, engineering, medicine, musicology, or other relevant education.
- A strong interest in the cognitive neuroscience of music and empirical research.
- Excellent verbal and written communication skills (in English).
- Experience of conducting empirical research.
- Confidence in dealing with participants, health professionals and the wider research team.
- Strong collaborative skills as the successful candidates will join a large multidisciplinary research environment.

Desirable:

- Track record of publications.
- Experience with statistical analysis of neuroimaging data modalities.
- Expertise in computer programming and scripting (especially Matlab and/or C++).
- Expertise with computers and operating systems (especially Linux).
- Expertise in advanced statistical analysis.

Application:

The application must consist of a statement of interest, highlighting your motivations for applying for the position (max 1 page), full CV and a short proposal for a study within the research area of MIB (maximum 2 pages). The application should be sent to Hella Kastbjerg (hella.kastbjerg@clin.au.dk) in a single PDF file by May 10th, 2016.

Additional information regarding this position can be obtained by contacting: Professor Peter Vuust, MIB, AU tel. +45 7846 1617, mail: pv@pet.auh.dk.

Formalities

Please note that the selected candidates will have to apply for and get approved for enrolment at the AU Graduate School of Health (<http://talent.au.dk/phd/health/>) in a separate procedure before officially starting as a PhD student. An enrolment at the Graduate School of Health requires a Danish Master's degree or similar relevant five-year degree programme. Please note that if the Master's degree is less than 120 ECTS credit points, the applicant must have comprehensive research-relevant activities.