Technical University of Denmark

VALENCIA, 9 APRIL 2014

ASSOCIATE/ASSISTANT PROFESSOR IN ACOUSTIC TECHNOLOGY

DTU Electrical Engineering invites applications for a position as associate/assistant professor in the field of Computational Acoustics. The successful candidate will be associated with the new Centre for Acoustic-Mechanical Micro Systems (CAMM) in the Acoustic Technology group. The position is available as soon as possible.

CAMM is a joint centre between DTU Mechanical Engineering and DTU Electrical Engineering that started 1 January 2014. It serves as a unique platform for the development of the field of acoustic-mechanical micro systems – a new field focusing on the acoustic and mechanical parameters involved in the process of analyzing and designing small audio systems and other miniaturized systems involving acoustics. The CAMM centre is partly sponsored by the three large Danish hearing aid companies: Widex, GN Resound and Oticon.

Responsibilities and tasks

The successful candidate will be responsible for establishing and developing the research field of computational acoustics in CAMM with a special focus on acoustics near vibrating micro size objects and acoustic-mechanical interaction properties at the micro scale.

The research activities will include one or more of the following areas

Development of numerical methods for computing acoustic fields near vibrating complex structures at the micro scale.
Construction of numerical models for assessment of acoustic losses in and around micro scale objects in the audible frequency range.

Numerical methods for acoustic-mechanical interaction.
Numerical methods for assessment of wind noise.
Experimental analysis of acoustic and vibro-acoustic properties at the micro scale.

The candidate is expected to collaborate closely on the research topics with both CAMM-associated and other staff members at DTU Electrical Engineering and DTU Mechanical Engineering, as well as the three sponsoring companies.

The candidate is expected to contribute actively in raising funds for new research activities.

The candidate will participate in teaching and education at BSc, MSc and PhD levels at the department. The teaching will mainly be within the research areas, but may also comprise other areas of the educational activities of the department.

The associate/assistant professor is expected to take part in and further develop the interdisciplinary research and education environment in CAMM, by initiating and supervising joint research projects between DTU Electrical Engineering and DTU Mechanical Engineering.

Read the full posting at:

http://www.dtu.dk/Job/job?id=62d265fe-2bcf-4299-a1e9-4fd196a499cd

View all vacancies at www.dtu.dk/english/career