

Aalto University is a new multidisciplinary science and art community in the fields of science, economics, and art and design. The University's cornerstones are its strengths in education and research, with 20,000 basic degree and graduate students, and a staff of 4,500 of which 300 are professors

Aalto University invites applications for:

TENURE TRACK OR TENURED POSITION IN

BIOMEDICAL ENGINEERING (MEDICAL IMAGING)

The position is located in the Department of Biomedical Engineering and Computational Science (BECS) (<http://www.becs.tkk.fi>) of Aalto University School of Science.

The position is open to talented individuals who hold a doctorate and have excellent potential for a productive scientific career. On the basis of their experience and competence, applicants will be placed on any of the four levels of the tenure track system: Assistant Professor (1), Assistant Professor (2), Associate Professor or Full Professor. The candidates for the two first-mentioned levels are appointed for a fixed term, while the candidates for Associate Professor positions are appointed either for an indefinite term or for a fixed term. A Full Professor is appointed for an indefinite term.

The appointed professor should have a strong background in applied physics and measurement technology (especially in medical imaging), a good publication record, international scientific collaboration experience, and demonstrated ability to communicate effectively as a teacher. A good grasp of biophysics and biochemistry, human physiology, neuroscience, and signal processing will be useful. The focus area for the research and teaching of the position is medical imaging, in particular instrumentation and methodology for studies of brain or cardiac structure and function. The relevant fields of study in the department include magneto- and electroencephalography (MEG/EEG), magneto- and electrocardiography (MCG/ECG), navigated transcranial magnetic stimulation (nTMS), near infrared imaging (NIRS), ultra-low-field MRI, hybrid MEG-MRI; biosignal analysis and inverse problem of MEG, EEG, NIRS, and MRI; and, e.g., studies of brain excitability and connectivity.

The application should include a cover letter, a CV, a list of publications, a concise description of research interests & plans for the present position, a brief teaching portfolio, and contact information of at least 2 persons who can give recommendations. The applicant should provide a list of 5–10 publications or other documents that are the most relevant for the position, accompanied with a short description of the main accomplishments of the applicant. Copies of these key publications (or links to them, if they are long) should be appended to the application. The application should be addressed to the President of Aalto University and submitted to the Registry of Aalto University, P.O. Box 11000, FI-00076 Aalto, Finland. You may also submit the application by email: kirjaamo@aalto.fi. The closing date is the 28th of February 2011.

The application materials will not be returned.

More detailed information about the BECS and its research fields, as well as the present application process and its requirements, is provided online at <http://www.aalto.fi/en/openpositions> and <http://www.becs.tkk.fi/en/work/tenuretrack2010.html>.