Postdoctoral Researcher Position in Electromagnetic Modelling of the Human Body

Department of Electrical Engineering is looking for a postdoctoral researcher in Electromagnetic Modelling of the Human Body. The research work will be carried out to work at the Electromagnetics in Health Technologies group (http://eea.aalto.fi/en/research/electromagnetics_in_health_technologies/) of Department of Electrical Engineering and Automation (EEA), Aalto University.

Job description

We look for candidates in the following topics:

1. Computational dosimetry of electromagnetic fields (all frequency ranges) for human safety or medical applications
2. Individualized modelling of brain stimulation (TMS, TDCS, TACS, …)

The candidates should write and submit a short research plan about the topic(s) of their choice. The topic can extend beyond the above mentioned topics depending on the qualifications of the applicant. However, the proposed research should, in one way or another, feature electromagnetic modelling using realistic anatomical models of the human body. Ideally, the research should extend and complement the research group's area of expertise (see references below). Candidates who are interested in combining modelling with experimental work are also welcome.

Requirements

We expect the candidates to have a doctoral degree and experience in a relevant research field. The candidate should be capable of independent research.

The position is offered for 3 years starting from early autumn 2017. The salary is determined according to the salary system of Aalto University.

How to apply

Please apply via recruiting system by using link http://www.aalto.fi/en/about/careers/jobs/view/1334/. The deadline for applications is June 20, 2017. Application materials should be submitted in English and in single pdf file.

Your application should include the following:

- Cover letter
- CV and list of publications (three most important publications highlighted),
- Degree certificates
- Short research plan (max. 2 pages)
- Contact information of two references
Aalto University reserves the right for justified reasons to leave the position open, to extend the application period and to consider candidates who have not submitted applications during the application period.

Additional information

For additional information, please contact Assistant Professor Ilkka Laakso, firstname.lastname@aalto.fi. In recruitment process relating questions, please contact HR Coordinator Jaana Hänninen.

References

Below are examples of what kind of modelling we have done in the past. Please find more references at https://scholar.google.com/citations?user=_kaid_UAAAAJ&hl=en

- Laakso, I.; Tanaka, S.; Koyama, S.; De Santis, V. & Hirata, A. Inter-subject Variability in Electric Fields of Motor Cortical tDCS. Brain Stimul., 2015, 8, 906-913

About Aalto University

The School of Electrical Engineering is located at the Aalto University Otaniemi campus in the Helsinki metropolitan area, Finland. Aalto University is a community of bold thinkers where science and art meet technology and business. We are committed to identifying and solving grand societal challenges and building an innovative future. Aalto University has six schools with nearly 20,000 students and more than 400 professors. As a living and work environment, Finland consistent ranks high in quality-of-life. For more information about living in Finland: http://www.aalto.fi/en/about/careers/international_staff/