Aalto University School of Science invites applications for:

TENURE-TRACK POSITION IN NEUROIMAGING AND NEURAL MODELING

Are you an outstanding researcher who holds a doctorate and is interested in an excellent opportunity to pursue a successful scientific career? We, at the Department of Neuroscience and Biomedical Engineering (NBE) (http://nbe.aalto.fi/en/), have opened a tenure-track position in neuroimaging and neural modelling, and we aim at filling this position at the Assistant Professor level. Yet, we can also consider more advanced, exceptional candidates at either Associate or Full Professor levels.

Working environment

The research methods at NBE range from cellular patch-clamp techniques to human neuroimaging using, e.g., magnetoencephalography (MEG), magnetic resonance imaging (MRI), hybrid MEG–MRI, near-infrared spectroscopy (NIRS), functional MRI (fMRI), and navigated transcranial magnetic stimulation (nTMS) combined with electroencephalography (EEG). NBE is world-renowned for its long-term top-level research on human systems neuroscience, and pioneering development and applications of MEG and TMS technologies and signal analysis in basic and clinical research. Spinoff companies of the department are world-leading developers and manufacturers of MEG and nTMS devices.

NBE hosts and develops a national-level open-access research infrastructure, Aalto NeuroImaging (ANI), with state-of-the-art 306-channel MEG, 3T f/MRI, nTMS, and a behavioral laboratory. The experimental research currently focuses on human sensory and motor functions, perception, cognition, emotions, social cognition and interaction, and language processing. NBE has close contacts with the University of Helsinki, Helsinki University Hospital, and the MEG and TMS manufacturers. NBE also collaborates actively with other departments of Aalto University and is extensively networked with the neuroscience and biomedical engineering communities nationally and internationally. Health and wellbeing is one of the seven key research areas of Aalto University, and neuroscience and neurotechnology is a strategic focus area of the School of Science. The continued development of this field is vital for reaching Aalto’s strategic objectives in scientific excellence and societal impact.

NBE operates together with four other Aalto University departments a joint master program in Life Science Technologies where NBE is in charge of two majors: Human Neuroscience and Technology and Biomedical Engineering. The recruited person will be an active and dedicated teacher in this curriculum and she/he is expected to contribute to teaching at all levels, from bachelor to graduate level, about 1.5 courses per academic year, and to supervision of BSc, MSc, and PhD students.
Experience and skills

The candidate should have a strong motivation and proven skills for innovative experimental human neuroimaging research, advanced data analysis methods, and experiment-linked computational modeling, ideally across multiple scales of the nervous system.

Professors placed on the Aalto University tenure track advance in their career through regular performance assessments which take into account their merits in all areas of duty: research, teaching, and service (activity in the scientific community, academic leadership and societal interaction). An Assistant Professor will be appointed for a fixed term (3–5 years for level I and 4 years for level II), after which she/he can be tenured as an Associate Professor.

The applicants will be reviewed based on their scientific and teaching potential or excellence, and their active role within the international science community. The successful candidate is expected to form a research group, conduct experimental research in human neuroscience, develop research methodology and modeling, teach undergraduate and graduate students, raise funding from national and international sources, and become an academic leader. The applicants should have a good command of English.

Salary

Aalto University follows the salary system of Finnish universities but applicants may also provide salary requirements.

How to apply

If you want to join our community, please submit your application latest on Nov 17, 2019, through our recruitment system by using the “Apply now!” link below or https://rekry.saima.fi/aaltohome/application_edit_welcome.html?did=5900&lang=en&job_id=2496&jc=1. If you wish to hear more about the position, please contact Professor Lauri Parkkonen. Recruitment-process-related questions should be addressed to NBE’s HR coordinator, Ms. Noora Koskivaara. E-mails: firstname.lastname@aalto.fi

Please include the following pdf documents in English

- Motivation letter that describes your interest and potential synergies in joining the NBE faculty
- Curriculum Vitae
- List of publications (with the 5 most significant publications highlighted)
- A description of research interests, describing also past research
- Teaching portfolio compiled according to Aalto University guidelines
- Contact information of at least two persons who can give recommendations

Please find general instructions for applicants, including language requirements and guidelines for compiling the teaching portfolio and CV at https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-track
Candidate Brochure


About Finland