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1) *Positions at Aalto University*

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>.



2) Positions at University of Eastern Finland, Kuopio



Post doctoral and early stage researcher positions in scientific computing

The Inverse Problems Group (IPG) at the Department of Applied Physics, University of Eastern Finland (Kuopio campus) will hire 1-3 new PhD students (early stage researchers) and 1 post doctoral researcher. The IPG is led by Prof. Jari P. Kaipio, and it currently consists of 9 senior and postdoctoral researchers and 12 PhD students. The group is affiliated with the Centre of Excellence in Inverse Problems Research (Academy of Finland). The IPG invites prospective PhD students and prospective post doctoral researchers to apply for the positions, which will involve research on one of the following topics:

1. Aerosols and climate: Reduction of uncertainty of the models (Post Doc + PhD student)
2. Stochastic boundary models for inverse problems induced by PDEs (PhD student)
3. Development of advanced modelling for diffuse optical tomography (PhD student)
4. Computational and statistical methods for quantitative photoacoustic tomography (PhD student)
5. Electrical capacitance tomography imaging of concrete (PhD student).

The postdoctoral position will be placed on the topic #1, the PhD student candidates are requested to indicate the preferred projects (one or more) in their application.

The salary of the PhD students will be placed on levels 1-4 and the salary of the postdoctoral researcher on level 5 of the job demands level chart for teaching and research personnel in the Salary System for Finnish Universities. The duration of the positions can be up to four years for the PhD students and three years for the post doctoral researcher.

Prospective PhD students are expected to have a MSc degree (or equivalent) and the prospective postdoctoral researchers a PhD degree (or equivalent). Persons graduating in the near future are also encouraged to apply. The application with the following documents should be sent or delivered to the Registry Office of the University of Eastern Finland, Kuopio Campus, P.O.B. 1627, 70211 Kuopio, Finland (street address: Yliopistonranta 1 E, Snellmania) or Joensuu Campus, P.O.B. 111, 80101 Joensuu, Finland (street address: Yliopistokatu 2, Aurora). The deadline for applications is February 28, 2010 (at 3.00 pm Finnish time).

- Cover letter indicating which project(s) are addressed
- Short CV
- Copies of relevant diplomas and transcripts of academic records. The diplomas and transcripts should be in English or Finnish and the grading system should be described
- Names and contact information of two referees

For more information, see <http://physics.uku.fi/research/IP/Announcement2011.pdf>

All enquiries related to the applications should be addressed to Ville Kolehmainen, email: ville.kolehmainen@uef.fi



3) Assistant/Associate Professor in Biomedical Engineering, Detroit, USA

The Department of Biomedical Engineering at Wayne State University, Detroit, MI invites applications for a tenured or tenure-track faculty position to develop and lead research and teaching programs (undergraduate and graduate) in Biomedical Engineering for as early as Fall 2011. Potential areas of research include, but are not restricted to: Biomaterials and Tissue Engineering, Biomedical Instrumentation, Biosensors, Medical Robotics, and Bioimaging. The successful applicant will demonstrate an ability to attract external funding for research and teaching efforts, develop new and teach existing core courses in biomedical engineering and direct graduate students.

Read more: <http://biomch-l.isbweb.org/threads/22016-Assistant-Associate-Professor-in-Biomedical-Engineering-Position-Available>

4) 43th Nordic Ergonomics Society Conference (NES2011), 18-21.9.2011, Oulu

Suomen Ergonomiayhdistys ja paikallinen järjestelykonsortio pyrkivät konferenssin kautta tuomaan esille "laajan kansainvälisen ergonomiakäsityksen" mukaisesti aihealueen koko keskeisen tutkimuksellisen ja käytännöllisen annin. NES tarjoaa esittämisforumin, kuuntelumahdollisuuden, keskustelupaikan ihmisestä niin työn tekijänä, työtä johtavana, kuluttajana kuin kansalaisenakin. Pohdinnan kohteena on miten ihmisen tai ihmisten "yhteispeli" työpaikan, työpisteen, tehtävän, prosessin, tuotteen, palvelun, organisaation, sidosryhmien ja yhteiskunnan kanssa optimoidaan.

Huomaa myös monipuolinen keynote-esitysten kokonaisuus. Siinäkin tuo laaja ergonomiakenttä käydään läpi - mikrosta makroon niin fyysisestä, kognitiivisesta kuin organisatorisesta näkökulmasta. Pyritään palvelemaan hyvinvoinnin, hyvän käyttäjäkokemuksen ja innovatiivisuuden tavoitteita kehittämisessä ja johtamisessa. Väestön valtavirran huomioon ottamisen ohella panostetaan ikääntyneiden ja vammaisten elämänlaatuun - kansalaisina ja työntekijöinä.

Tule siis mukaan NESiin Ouluun syyskuussa.

Lue lisää: <http://www.nes2011.fi/>

5) EMBEC2011 Conference deadlines approaching

Deadline reminder

5th European Conference of the International Federation for Medical and Biological Engineering
Budapest, Hungary, 14-18 September, 2011

Let us raise your attention to the deadlines of the 5th European Conference of IFMBE:

Deadline of early bird registration: 28 February 2011

Deadline of paper submission: 28 February 2011

The official website of the Conference is www.embec2011.com

6) LFT-päivää vietettiin Aalto-yliopistossa 10.2.2011

Järjestyksessään kymmenettä lääketieteellisen fysiikan ja tekniikan päivää (LFT-päivää) vietettiin torstaina 10.2.2011 Aalto-yliopistossa, Otaniemessä. Tänä vuonna LFT-päivä keräsi paikalle 98 opiskelijaa ja tutkijaa ja päivän aikana pidettyyn perinteiseen lopputöiden posterikilpailuun osallistui 11 opiskelijaa. Yrity maailma oli myös erittäin hyvin edustettuna LFT-päivässä – LFT-päivän tukemiseen osallistui tänä vuonna kaikkiaan 10 yritystä, joista lähes kaikki olivat edustettuina LFT-päivässä. Lue lisää LFT-päivän tapahtumista ja palkituista postereista osoitteessa http://www.lfty.fi/lft_paiva/. Katso myös kuvakollaasi seuraavalla sivulla!

