Rikshospitalet-Radiumhospitalet Medical Centre HF  
Interventional Centre (IVS)

1 Research Engineer position in Medical Radar Signal processing in the Medical Radar Project is available for up to 2 years

The Interventional Centre at Rikshospitalet-Radiumhospitalet Medical Centre HF, (http://www.ivs.no), has 1 Research Engineer position available.

* The position is available for up to 2 years and is to be filled as soon as possible.
* The position is normally allocated to people who hold a Master degree or similar. Applicants with Bachelor degree can be considered if they have relevant background and work experiences.
* The candidate should have a solid background in signal processing. It is also desirable that the candidate has knowledge in image processing and software development in C++/MATLAB/LabView.
* Applications with all necessary enclosures must be received by December 31, 2006.

The position is funded by the Research Council of Norway (NFR) within the FORNY program. The project is a joint effort among the Interventional Centre at the Rikshospitalet-Radiumhospitalet Medical Centre, Medinnova AS and Novelda AS. The goal of the project is to develop a prototype of Medical Radar that can be used in several clinical applications. The project will address rapid prototyping of software platform where signal processing of radar signals will be a central part. The candidate is supposed to work closely with a team consisting of engineers from Novelda AS and clinicians and engineers from Rikshospitalet-Radiumhospitalet Medical Centre.

More information on this project can be found at http://www.ivs.no/wn

Job description
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The candidate is expected to work on the design and development of medical radar. The main objective of the theme is to analyze radar signals received from different layers of tissues. The signal processing of such radar signal will be a central part. The radar signals can be considered as images. Furthermore, it will be designed and developed a Graphical User Interface (GUI) where signals and images can be visualized. The candidate will work in an active research and development environment. International publication of research results will be emphasized.

About the Interventional Centre
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The Interventional Centre is a research and development department, established for advancing the field of image guided and minimally invasive therapy. The centre is unique in that doctors and engineers work together in multidisciplinary groups in a clinical setting. The research work at the center has been focused on the following three...
areas; MRI, X-ray, ultrasound, video-guided interventions and surgery; Robotics and simulators; and Biosensors, medical signal processing, and communications. There are ongoing 23 PhD programs in both medical as well as technical areas, where many of these are in collaboration with other institutions and universities. In addition to patient treatment, several animal procedures are performed. Lately, three spin-off companies have been established in the areas of biosensors and surgical simulators. We coordinate, ARISER, a project funded by the European Union on Augmented Reality in Surgery and participate in CREDO, on biosensor network. We also have several projects on biomedical sensors funded by the Research Council of Norway, Innovation Norway and Nordic Innovation Centre. Annually approximately 15 master students from the NTNU in Trondheim and the University of Oslo perform their theses. For more information, please visit: http://www.ivs.no/

Terms of employment
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The position is available for up to two years. The salary and terms at the Rikshospitalet-Radiumhospitalet Medical Centre are in accordance with Norwegian state regulations. Salary will be at NOK 300 000 - 350 000, (approximately US $ 48 000 - 56 000), depending on qualifications and relevant work experiences. Full salary during illness and five weeks paid holidays are according to the state regulations.

Further details
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For further information on the position, please contact
Professor Ilangko Balasingham, email ilangkob at klinmed.uio.no, phone +47 23 07 01 01 or Section Manager Dr. Ole Jakob Elle, email ole.jakob.elle at rikshospitalet.no phone +47 23 07 01 12.

How to apply
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Applications must include complete information about education at both bachelor and master level, and documented scientific experience. Women are especially encouraged to apply.

The application should contain following items:
1. cover letter with a statement of your interest
2. curriculum vitae
3. certified copies of transcripts for Bachelor and Master degrees
4. letters of references
5. list of publications (if any)

Send application to Professor Ilangko Balasingham, Interventional Centre, Rikshospitalet-Radiumhospitalet Medical Centre, 0027 Oslo, NORWAY.

Applications may also be submitted electronically to ilangkob at klinmed.uio.no. Please avoid sending large attachments by email.