MR-physicist, Medical Radiation Physics

We are looking for an MR-physicist who wants to be part of the committed and welcoming clinical physics team that solves both the daily and strategic clinical issues in MR-physics.

At the University Hospital in Linköping, Sweden, highly specialized imaging activities are conducted as well as teaching, development and research. Developments in MR are at the forefront and are conducted clinically in close collaboration with researchers at Center for Medical Imaging and Visualization (CMIV), as well as academia and industry.

Job description
As an MR-physicist, you are employed at the Department of Medical Radiation Physics, which is a workplace with a welcoming attitude, a committed group of employees and where we have fun at work. We offer daily challenges combined with continuous competence development in the area. Within Medical radiation physics, activities are conducted in the areas of MR-physics, radiation therapy, X-ray, nuclear medicine and radiation protection. The staff consists of MR-physicists, hospital physicists, engineers and an administrator. We currently have 25 permanent positions in the Department of Radiation Physics. The operation is certified according to the Management System for Quality (ISO 9001: 2015).

The following are included in your work:

- To conduct method development in close collaboration with clinical MRI staff (nurses and radiologists).
- To independently develop existing and implement new MRI methods.
- To be a support for clinical MR-staff in the daily work for questions of an MR-physical nature.
- Actively work with quality control, safety regulations as well as in silico simulation and assessment of implants and external equipment.
- Teaching and continuous training of relevant personnel categories on MR-safety, MR-physics and methodology.
- Opportunity to conduct research in collaboration with researchers at CMIV, radiology and Medical Radiation Physics
Examples of methods developed in our institution are advanced neuro-MRI including fMRI and spectroscopy, multinuclear MRS, quantitative MRI (qMRI), MR-elastography and abdominal MRI.

Equipment
We have twelve modern 1.5 and 3 T MR-scanners, in radiology, neurosurgery, radiation therapy and CMIV, manufactured by GE, Siemens and Philips respectively. Three of the scanners are used for both research and clinical trials. Research agreements are available with all suppliers and we also have access to the national 7 T MR-scanner for research and development.

Education and experience
You are an MR-physicist (e.g., engineering physics), or a certified hospital physicist with experience in MR, or equivalent. It is an advantage if you have a PhD-degree in MR-physics. We are in particular looking for someone with a background in cardiac / abdominal MR. Programming experience, AI, Matlab, Python and system managements of unix / linux is an advantage. Good language skills are necessary, i.e., you excel in formulating yourself, in both speech and writing in both English and Swedish / Scandinavian. **Fluency in Swedish (or Scandinavian) is required.**

Personal characteristics
We are looking for an individual who have a desire to push the frontiers of clinical MR, both in a clinical healthcare environment and in a research context.
• You have a good ability to collaborate with all professions, you are sensitive and able to communicate in a clear way.
• You can plan, organize and prioritize your work in an independent and efficient manner.
• You are a knowledge resource, you take your own initiatives and have a focus on clinical activities.
• You take responsibility for work tasks and have a sense of logic, a wealth of ideas, and an ambition to constantly develop more efficient work processes and MR-methods.

**We attach great importance to personal suitability.**


**Infrastructure**
The University Hospital in Linköping, which is located in Sweden's population center and has excellent communications with Stockholm, Lund, Copenhagen and Amsterdam. We have a regional collaboration with the County Councils in Jönköping, Kalmar and Växjö and a national collaboration within the MR-safety field.

**Employment and information**
We offer a permanent position, starting as soon as possible, or by agreement. Please enclose a copy of your diploma with your application!

Information about the service is provided by:
- Section Manager, MR Section, Professor Peter Lundberg, +46-(0)10-103 27 90.
- Operations Manager, Associate Professor Agnetha Gustafsson, +46-(0)10-103 81 16.

Union representative for:
- Hospital scientists are Yosef Al-Abasse, +46-(0)10- 103 27 02.
- Sweden's Engineers is Anders Tisell, PhD, +46-(0)10-103 36 604
Application

The last day to apply is **5 September 2021**, but we advise you to send in your application as soon as possible. Welcome with your application via our recruitment system, 'ReachMee': https://www.regionostergotland.se/Jobb-och-studier/Lediga-jobb/?rmpage=job&rmjob=16526&rmlang=SE

If you need help with registering in the system, contact customer service Support and service, +46-(0)10-103 60 00, during office hours.

County Council of Östergötland