

Clinical applications of hyperpolarized ^3He MRI



An appointment as an Early Stage Researcher (ESR) is available at Danish Research Centre for Magnetic Resonance (DRCMR) as part of a European funded Marie-Curie Research Training Network entitled PHELINET (Polarized Helium Imaging Network).

The PHELINET network is focused on the topic 'Innovative, non-invasive lung MRI techniques for clinical diagnosis and lung therapy' and DRCMR is involved in the research line aiming at applying hyperpolarized ^3He for human studies.

Patients with different lung diseases (COPD, cystic fibrosis and primary ciliary dyskinesia) will be studied with the aim of evaluating the potential of hyperpolarized ^3He MRI for diagnosis and treatment monitoring.

The successful candidate will be involved in implementation of new imaging methods at the 1.5 T scanner used for ^3He MRI as well as developing new methods for image post-processing. The candidate should have a background in physics/medical engineering, preferably with experience in MR sequence development and/or image processing. The work will be carried out in close collaboration with a medical PhD student.

The PhD student will be encouraged to participate in collaborations with other PHELINET research teams and will be invited to attend training schools organized within the network.

Starting date: not later than September 2007

Duration: 3 years

Closing date: 1 April 2007.

For more information please contact:

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The DRCMR is located at Copenhagen University Hospital Hvidovre in south-west Copenhagen. For more information about the centre's research activities please consult the homepage: www.drcmr.dk.

DRCMR was one of three clinical centres participating in the EU funded Polarised Helium to Image the Lung (PHIL) programme.

The mermaid was used as the logo for the final PHIL meeting held in 2004 in Copenhagen