



Position available: Pre-clinical Hyperpolarized Helium3 MR imaging

PhD Studentship funded by EU Marie Curie Actions.

Duration 3 years.

Salary (gross) 31984 euros/year plus mobility allowance (ca. 8000 euros/year)

Job description: development of pre-clinical Helium3 imaging protocols oriented towards drug evaluation in animal models of lung diseases. Research will focus on non-invasive imaging protocols suitable with longitudinal studies and on extraction of regional lung function parameter (pO₂, gas flow, gas exchange, etc). Parts of these protocols, already demonstrated in rats, will be extended to mice as a key animal model for lung disease. The project is funded as part of the EU Framework 6 Polarised Helium Imaging for Lungs Network (PHELINET) and the student will be encouraged to participate in ongoing collaborations with other researchers across Europe with multiple opportunities to visit leading international academic and industrial laboratories and to attend taught summer schools.

Candidate profile: Master degree (or equivalent) in Physics or Biomedical Engineering. The candidate will ideally have already some training/experience in magnetic resonance techniques. Interest in experimental cross-disciplinary work (biology, medical imaging) is needed. The position is opened to any nationality to the exception of French. At the date of appointment, the candidate should not have resided or worked in France for more than 12 months in the last 3 years. Recruitment being resolutely based on an equal opportunity policy, female candidates are strongly encouraged to apply.

Environment: The work will take place in the NMR laboratory located on the Campus of the Lyon University. The lab has a strong experience in pre-clinical Helium3 imaging. It is equipped with small bore 2 T and 4.7 T MR scanner and it has access to human and small animal research platform (MRI, PET, μ CT, US).

Lyon, the second largest urban area in France, is the second research and development pole in France with approximately 17 500 researchers. Located at the crossroads of northern and southern Europe (2 hours drive from Alps ski resorts and 3 hours from Mediterranean coast), the city, part of the World Heritage List, offers a wide range of cultural and outdoors activities.

Closing date: 1 september 2007

For more information on the projects please **contact:**

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