



## Hyperpolarised gas production and delivery

**Position:** EU-funded post-doctoral research fellow (Marie Curie fellowship for Experienced Researcher, PhD or 4-10 years of experience in research).

**Duration:** 2 years - start date: March 2007

**Salary:** 48,786 Euros p.a., plus relocation allowance

An experimental physicist/ research engineer is sought with relevant experience of hyperpolarized (HP) helium-3 gas production.

The work will involve gas management on a centralized production facility, distribution of HP gas among the partners upon request.

In collaboration with other PHELINET partners, two push-button gas administration units will be developed, one for controlled gas administration to living human subjects, and one for animal subjects.

The project is funded as part of the EU - Framework Program 6 - Research Training Network PHELINET (Polarised Helium Lung Imaging Network). The post-holder will be encouraged to participate in ongoing collaborations with other researchers across Europe with multiple opportunities to visit leading international laboratories.

**Environment:** The Institute of Physics is a research laboratory of the Johannes Gutenberg-Universität at Mainz, Germany. Hyperpolarised He3 has been intensively developed and used for over 20 years, in research programs including fundamental tests of atomic physics as well as He3-magnetometry in combination with SQUIDs, high-energy and neutron physics, and MRI of lung ventilation in humans.

**Conditions for recruitment:** The candidate should preferably be a national of EU Member or Associated States, excluding Germany.

At the date of appointment, she/he should not have resided or worked in Germany for more than 12 months in the last 3 years.

*PHELINET recruitment is based on an equal opportunity policy. Female candidates are strongly encouraged to apply.*

**Closing date:** 28<sup>th</sup> February 2007.

**For more information on the project, please contact:**

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