



Umeå University announces...

Umeå University - with its 29,000 students and over 4,000 employees – is an organisation in constant change and development. The university's researchers carry out excellence within several areas of research, and many of them are among the world's elite. We are one of Sweden's largest providers of education and offer a broad and attractive range of courses and programmes. Our campus constitutes an inspiring environment for everyone that studies and works here. We wish to co-operate with companies and organisations throughout the Umeå region and all over the world.

1 post doc and 3 PhD-student positions in Medical Physics and Biomedical Engineering (Radiofysik och Medicinsk Teknik)

The research group, consisting of physicists, engineers and physicians, is working with clinical optimisation of cancer therapy by morphological and biological imaging with MRI and PET. The specific focus of the project is therapy design and early response imaging. The image-data together with blood and tissue data are typically multi-dimensional, thus especially the post doc position will be focused on multi-dimensional data analyses and design of artificial intelligence tools and synthesized image design. The PhD-positions will be focused on different physical and biological aspects of PET and MRI.

The project is organised in close collaboration with the University Hospital and one of the major industries in the field. The PhD-positions may include part time work with either of these collaborators or part time university teaching.

To qualify for the post doc-position, the applicant should have a PhD degree or equivalent, preferably not more than 3 years old. You should be an expert in multi-variate methods, able to work independently with both applications of established methods on new data-sets, and development and adjustments of methods to new types of data. You should be structured and be able to plan and synchronize your work with the rest of the research team.

Prerequisites for the PhD-positions include 240 ECTS-credits or equivalent higher education studies, of which 120 ECTS-credits or equivalent in a combination of Medical Physics, Biomedical Engineering, Physics, Mathematics and Statistics.

For further information, contact Mikael Karlsson, professor, +46-(0)90-785 24 59 (sekr +46-(0)90-785 15 87) <mikael.karlsson@radfys.umu.se>, home page: <www.umu.se/radsci>.

Union information is available from SACO, +46-(0)90-786 53 65, SEKO civil, +46-(0)90-786 52 96 and ST, +46-(0)90-786 54 31.

Your complete application with Curriculum Vitae, marked with reference number **315-129-09 for post-doc** or **313-130-09 for PhD-student**, should be sent to <jobb@umu.se> or to the Registrar, Umeå University, SE-901 87 Umeå, Sweden to arrive **March 19, 2009** at the latest.

We look forward receiving your application!

