



UNIVERSITÀ DI PISA

Dipartimento di Fisica "E. Fermi"
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Call for a Post-doctoral position at the Department of Physics "E. Fermi", University of Pisa, Italy

Key words: Monte Carlo simulations, GATE, Small animal PET

The Functional Imaging Instrumentation Group (FIIG) of the Department of Physics "E. Fermi" is looking for a talented researcher for a post doc-position in the field of pre-clinical PET imaging. FIIG is lead by Prof. Alberto Del Guerra and has extensive expertise in the development and application of technologies specifically for the fields of medical imaging, principally PET, SPECT, CT, and MRI. The group has a significant number of ongoing research projects covering various fields of functional imaging, medical physics and detector technology. The major research activities are devoted to the development and application of advanced detector and simulation technologies to the field of diagnostic imaging in PET, SPECT, CT and MRI. Specific research projects are currently ongoing in the fields of:

- Molecular imaging with PET and SPECT (both preclinical and clinical)
- High resolution CT scanner (preclinical)
- Functional imaging in breast cancer (positron emission mammography, PEM, and single photon emission mammography, SPEM)
- Image reconstruction (2-D and 3-D) in medical imaging, MRI, fMRI and UHF(7T)MRI

The candidate will be responsible for the simulation of a novel small animal PET system, including system design, performance assessment, and system matrix calculation.

We are looking for researchers who have experience in:

- Monte Carlo simulations with Geant4 or GATE
- C++ programming
- Emission tomography

The successful candidate will obtain a post-doc position ("Assegno di Ricerca") for 12 months
For further information, please contact:

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