A three year position is available within the group of quantitation in emission tomography of the U650 INSERM in Brest. This is a joint post with the U601 INSERM in Nantes and has been created to coordinate the efforts for the Quantitative Imaging / Dosimetry group of the Cancéropôle of West France.
The group consists of a number of physicists, engineers, PhD students and Nuclear Medicine physicians. The group is currently working on a number of different areas for quantitation in emission tomography, including Monte Carlo system modelling using GATE, correction of respiratory motion, segmentation algorithms for the delineation of functional volumes, patient specific dosimetry, compartmental modelling and characterisation of new radiopharmaceuticals for diagnostic and therapeutic applications, use of emission tomography in therapy treatment planning.

The post holder will be working in the area of Monte Carlo simulation (more specifically GATE: http://www-lphe.epfl.ch/~PET/research/gate/) for the modelling of the detection process in emission tomography and the improvement in quantitative studies with SPECT and PET (including combined imaging technologies such as PET/CT and SPECT/CT which are available within the collaboration). Two computer clusters are available within the collaboration to enable the efficient use of the simulation code.

The post holder will be in charge of the development and maintenance of Gate, in coordination with the OpenGate collabaration. Part of the job will address performance optimization on computer clusters. The development of new features in the code (for example in the domain of dosimetric calculations) will also be addressed.

Candidates with a PhD in mathematics, physics or computer science are encouraged to apply. A background in mathematical modelling and radionuclide physics/dosimetry are desirable.
A gross annual salary of 50,000€ is on offer. The post is available for three years in the first instance.

For more information and an informal discussion interested candidates should contact:
- Dr Dimitris Visvikis (e-mail: dimitris@univ-brest.fr, tel: (33) 2 98 01 81 14).
- Dr Manuel Bardiès (e-mail: manu@nantes.inserm.fr, tel: (33) 2 40 08 47 47).
Applications, including CV and previous experience, should be sent to both Dimitris Visvikis and Manuel Bardiès.