In the framework of the Marie Curie Research Training Network (MC-RTN) project on "Modelling Mathematical Methods and Computer Simulation of Tumour Growth and Therapy"

the European Community is providing a three-year fellowship, to be held at the Université Joseph Fourier (France) starting on November 1st, 2005.

The fellowships will cover
- a grant of 30550 Euros per year (including social charges and other relevant costs)
- mobility allowances to partner teams (up to 5000 Euros per year)
- travel costs up to 250 Euros per year for one visit to the home scientific community.

Eligibility of the Early Stage Researcher (ESR) must be met under the following conditions:

Degree: Candidates must be holders of a degree which qualifies them to embark onto a doctoral degree. The degree must have been obtained from a university or equivalent higher education institution,

Experience: They must have at most 4 years of full-time research experience since obtaining the diploma giving them access to doctoral studies. An exemption will be made for compulsory military service or childcare.

Mobility: They should be European (or citizen of an associated state) but cannot be French. In addition, at the start of their fellowship/activity, researchers may not have stayed or carried out their main activity (work, studies, etc) in France for more than 12 months in the 3 years immediately prior to the starting date. Equal opportunities policies are applied.

Content of Work:
The main objectives of the research project are:
1- Developing experiments related to the interactions between cancer cells and the endothelium, as well as the extravasation of tumour cells.
2- Related biological aspects: proteins involved, signalisation
2- Understanding and measuring cell microrheology
3- Modelling the above aspects using selected mathematical models (phase-field methods, level-set methods, etc.)

A good background in biophysics/biomechanics is strongly recommended. Knowledge of experimental work is also a prerequisite. Also a background in modelling would be appreciated. Applications should contain:

* A letter explaining the motivations for participating in the network
* Curriculum vitae
* List of publications (if any) and copies of the most important ones
* A letter of recommendation (or more)

and should be sent within September 30th, 2005 to:

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