

**Job/Fellowship Reference:** C2008-UL-CMAF-4

**Main research field:** Mathematics

**Sub research field:** Applied Mathematics /Computational Mathematics

**Job summary:**

The Centre for Mathematics and Fundamental Applications (CMAF) at the University of Lisbon invites applications for one 5-year research position in Numerical Analysis in Continuum Mechanics.

The successful applicant is expected to collaborate with the local team. Although there are no teaching duties associated with this position, the candidate may be asked to collaborate in post-graduate training.

**Job description:**

**Universidade de Lisboa | University of Lisbon**

Applied Mathematics /Computational Mathematics

CMAF combines expertise in the areas of Partial Differential Equations, Numerical Methods and Continuum Mechanics as evidenced by the diversity of publications on these subjects by its members.

The centre is located at the Interdisciplinary Complex (<http://www.ciul.ul.pt>) where basic research in mathematics and physics combines with a strategy to apply quantitative approaches to other disciplines.

The present call invites applications to one -year research position in Numerical Analysis in Continuum Mechanics, with special emphasis on **Finite Element Methods in the analysis of 3D Anisotropic Membranes.**

The successful candidate is expected to collaborate with the local team and participate in seminars and workshops. The scientific work will consist in the theoretical and numerical analysis of anisotropic membranes in the three-dimensional case. Specifically, the case of fiber reinforced and of composite membranes will be of special interest.

The post holder will join an existing team working in Mathematical and Numerical Methods in Mechanics (<http://cmaf.ptmat.fc.ul.pt/membros/group-4.html>) and will be encouraged to initiate his/her own projects. The candidate may be asked to collaborate in post-graduate training.

Applicants must have a PhD in Mathematics together with a strong research program, namely in the area of Finite Element Methods in Continuum Mechanics. At least three years of post-doctoral research experience would be desirable.

The selection of candidates will take place by early October. The report of the jury and the documents concerning the selected candidate will then be submitted to Fundação para a Ciência e a Tecnologia for final approval of the contract.

The position is sponsored by the Ministry of Science of Portugal under the doctoral job offers program "Ciência 2008".

To apply, please send a cover letter, CV, research plan and three letters of recommendation to: [cmaf@ptmat.fc.ul.pt](mailto:cmaf@ptmat.fc.ul.pt)

For more information about Centro de Matemática e Aplicações Fundamentais visit <http://cmaf.ptmat.fc.ul.pt/>

Please refer to job reference in all application materials.

Application deadline: 10 September 2008

5-year position, base salary: 43k€ (annual)

Candidates should have a minimum of 3 years postdoctoral research experience. In exceptional cases, duly justified, FCT may consider accepting applicants with less than 3 years of post-doctoral experience.

The jury reserves the right not to fulfil the posts in the absence of qualified applications.

Please note: The funding for this call and the final appointment of these positions are dependent on the approval from Fundação para a Ciência e a Tecnologia of the pre-selected candidates proposed by the University of Lisbon.

For more job opportunities in the University of Lisbon, please consult **CIÊNCIA 2008/PostDoctoral positions** [www.ul.pt](http://www.ul.pt)