

PhD student position in applied mathematics

Application deadline 2010-06-15

This is three years project sponsored by CNRS, FRANCE, and placed at the Department of Mathematics, University Cergy-Pontoise, Paris, France. CNRS is the French research organization able to support innovative interdisciplinary projects in which its teams join forces across a broad range of scientific fields. Cergy-Pontoise University is a French university, in the Academy of Versailles. Cergy-Pontoise University is a public university and a leading centre of teaching and research, which welcomes 17,700 students and 1,500 international students interested in studying abroad. The university is ideally located in the west of Paris (30 km from central Paris).

Job description

This position concerns development of new mathematical methods for solution of direct and Coefficient Inverse Problems (CIP) for Maxwell's equations. The main focus in the project will be on development of new versions of Discontinuous Galerkin FEM in unbounded domains for solution of Maxwell's equations and application of this method to solution of CIP.

The topic of this PhD degree is applied mathematics and thus it provides a good grounding for pursuing a future academic research career. There will be also a great demand for your skills in industry. PhD student positions is limited to three years and will then normally include 20% departmental work, mostly teaching duties. Salary for the position is as specified in University Cergy-Pontoise general agreement for PhD student positions.

Required qualifications

You should hold a M.Sc. degree (mathematics, applied mathematics) in Applied Mathematics, Mathematics, Mechanical Engineering Science or equivalent, awarded by an internationally recognized university-level institution or documented equivalent thereof. You should have an interest in theoretical development of new numerical methods for applied problems for PDE, experience in scientific computing (object oriented C++ programming, Fortran, Matlab). Since the work involves teaching, contact with industry, participation in international conferences and writing of scientific papers, good communication skills and excellent knowledge of both written and spoken English are prerequisites.

Application procedure

The application shall be written in English and include the following items:

1. An application of a maximum of one A4 page containing your specific qualifications for the position
2. Attested copies of education certificates, including grade reports and other documents
3. Curriculum Vitae
4. Letters of recommendation and name of reference persons (optional)

The application shall be sent electronically as pdf or zipped documents to following addresses:

Christian Daveau, e-mail: Christian.Daveau@u-cergy.fr

Larisa Beilina, e-mail: larisa@chalmers.se