

**2007, September**

# POSTDOC POSITION

**Applications will be considered from September 2007 until the position is filled  
Position would start on January 1st, 2008.**



**CALL**

## ...IN MATHEMATICAL MODELING & NUMERICAL SIMULATION

### Introduction

The SIMUMAT group is seeking to hire two postdocs in the general area of Mathematical Modeling and Numerical Simulation. Positions would start on January 1st, 2008. SIMUMAT is a newly created research group in Applied Mathematics, funded by the Regional Government of Madrid, and including researchers from several research and higher education institutions. SIMUMAT seeks a new integrative approach of mathematics and simulation, in order to address fundamental and applied questions in a variety of fields through the integration of mathematical analysis, advanced computing and empirical data. Active research areas include fluid mechanics, aircraft design, geometrical mechanics, control, optimization, complex systems in biology, sociology and economics, and computational mathematics.

The successful candidate will work with one or more members of the SIMUMAT team and function in a multidisciplinary environment, working with mathematicians, physicists, and computer scientists.

Additional information about the team can be found at <http://www.simumat.es>

### Required Skills

Large experience in mathematical, computational, and theoretical modeling. Experience working effectively in a team effort. Excellent written skills as demonstrated by publication record. One of the positions will involve help with the management of the SIMUMAT linux cluster "ODISEA". For this position, some experience in these tasks is required.

### Desired Skills

Demonstrated ability to collaborate and communicate with researchers with diverse scientific backgrounds. Familiarity or experience with high-performance computing. Good oral presentation skills.

### Education

Ph.D. is required, all candidates must demonstrate a strong foundation in modeling. Suitable backgrounds include mathematics, physics, and engineering.

### Salary

The net stipend will be around 24,000 € per year, plus medical insurance. A limited budget will also be available for traveling. The post is within any of the Institutions participating in SIMUMAT (Instituto de Matemáticas y Física Fundamental, CSIC, Madrid; Departamento de Matemáticas, Universidad Autónoma de Madrid; Departamento de Matemáticas, Universidad Carlos III de Madrid; Instituto Nacional de Técnica Aeroespacial (INTA), Madrid).



Please submit a resume, publications list, a cover letter outlining current research interests and at least 1 letter of recommendation by e-mail to Sara Cebrián Robles ([sara.cebrian@uam.es](mailto:sara.cebrian@uam.es)) Further information can also be requested from this e-address.