

Early Stage Research Position - CERTH

The Laboratory of Polymer Reaction Engineering (LPRE) of the Chemical Process Engineering Research Institute / Centre for Research and Technology Hellas (CPERI/CERTH) is seeking a **highly qualified candidate** to undertake early stage research work on the:

Numerical Solution of Multivariate Population Balance Models

under the Marie Curie Project MULTIMOD ITN (www.multimod.eu) funded by the European Community.

The research work will be supervised by Prof. C. Kiparissides (AUTH/CERTH).

The candidates should have a degree in Chemical Engineering or/and Applied Mathematics with a background in mathematics, process dynamics and control, etc. The position is open to young researchers who fulfill the Eligibility Requirements as specified by Framework VII Marie Curie multi-beneficiary Initial Training Networks :

- To be eligible the successful applicant should be in the first years of their research career, and not in the possession of a PhD.
- Applicants should not be Greek Nationals.
- Applicants should not be Greek residents for more than 12 months in the last 3 years.

Benefits of this Marie Curie contract include mobility allowance, career development allowance and a travel allowance (for travel home and to meetings).

Description of the research project:

The MULTIMOD ITN will have duration of 48 months and will bring together 8 academic research groups with 5 industrial partners from 8 European countries to undertake innovative research and scientific research training in "Multi-Scale Computational Modeling of Chemical and Biological Systems". The network will provide unique cross- and multi-disciplinary training opportunities for 19 Early Search Researchers with backgrounds in chemistry, biology, physics, mathematics, statistics, and chemical engineering.

MULTIMOD envisions to raise the efficiency of the chemical/biochemical research sector and improve Europe's attractiveness for researchers by:

- (a) concentrating on advances in process modeling and simulation and
- (b) offering decisive training and transfer of knowledge opportunities.

The training programme and activities of the network will take advantage of its international nature in order to promote the co-operation between different industrial and academic organizations, thereby facilitating intersectorial mobility and training. In this way, the network will expose the researchers to different 'schools of thought' in terms of disciplines, culture and techniques. The main objective is to provide young researchers at the start of their careers with an extensive training program that will prepare them for a wide range of career options in multiple sectors.

Please find attached a position paper for Position entitled: ***Numerical Solution of Multivariate Population Balance Models***.

Research Funding:

The selected researcher will receive financial support via the Marie Curie Training Network MULTIMOD.

The recruited researcher will sign a eighteen-months employment contract with the host organization that includes full social security coverage. The salary of the appointed researcher includes living allowances (~31,000 euros/year), mobility allowances (~500/month), travel allowances (depending on the distance) and career exploratory allowances (2,000/fellow).

Applications (curriculum vitae, transcripts, two letters of recommendation) should be submitted electronically by **November 30, 2011** to:

Prof. C. Kiparissides, Director of LPRE, Coordinator of MULTIMOD ITN

e-mail: cypress@cperi.certh.gr

tel: +30 2310 498210, +30 2310 996198

MULTIMOD aims to increase recruitment of female scientists, thus, female candidates are strongly encouraged to apply.

For additional information, please contact the web sites: www.multimod.eu , www.cperi.certh.gr

