

March 27 , 2012

Dear All,

I would like to inform you that under the support of Marie Curie EU Actions, there is an opening for an Early Stage Researcher (ESR) at the Centre for Research and Technology Hellas-Greece (CERTH). The selected candidate will work for a period of twelve (12) up to eighteen (18) months in Thessaloniki (Greece), on the following topic: "Numerical Solution of Multivariate Population Balance Models".

The objective of the research project will be the development of an advanced Web-based and user-friendly software package for the simulation of the dynamic evolution of the particle size distribution in various chemical and biochemical particulate processes (e.g., particulate systems and cell cultures, etc.). The software application will include detailed dialog boxes for the introduction of model inputs (e.g., equipment design characteristics, process operating conditions, etc.), expert system guidance on how to use the simulator or making modelling decisions (e.g., selection of the numerical method for solving the population balance equations), full graphical interaction and built-in training and documentation. In addition, the software will follow open-system architecture standards.

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 :

- They should be in the first 4 years of their research career, not possessing a PhD.
- They should not be Greek Nationals.
- They should not be Greek residents for more than 12 months in the last 3 years.

Required skills/experience

- Programming in C#, C++, Visual Basic, MATLAB and experience is essential.
- Knowledge of custom modelling tools (gPROMS, Aspen Custom Modeller or another equation-oriented modelling tool) to solving process systems problems is helpful.
- Experience in developing Windows- and Web-based applications and databases.
- Ability to work independently and as a team member.

- Excellent oral and written communication skills.

The selected researcher will receive financial support via a Marie Curie ITN. The salary of the appointed researcher includes living allowances (~31,000 €/year), mobility allowances (~500€/month), travel allowances (depending on the distance) and career exploratory allowances (2,000€/fellow).

We would appreciate it if you could forward this announcement to potential students and/or colleagues that may be interested in the position.

Applications (curriculum vitae, transcripts, two letters of recommendation) should be submitted to my e-mail account (cypress@cperi.certh.gr).

Looking forward to hearing from you!

With Best Regards,
Prof. Costas Kiparissides

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