



LSRE

LABORATORY OF SEPARATION AND REACTION ENGINEERING

A research grant is available for scientists who currently hold a Masters degree in Science or Engineering disciplines, in the Laboratory of Separation and Reaction Engineering – LSRE – at the University of Porto, Portugal, within the framework of project **PTDC/EQU-EQU/099423/2010**, entitled “**Intelligent Design of Mesoporous Organosilicas for Adsorptive Separation Processes**”, co-financed by the Foundation for Science and Technology (FCT) and FEDER, under the following conditions:

Duration and Applicable Regulations: The grant will have an initial duration of 6 (six) months, with a predicted starting date of 1st of March 2011, and a possible extension up to a period of 18 (eighteen) months. Rules and regulations are those stated by FCT (<http://www.fct.mctes.pt/pt/apoios/formacao/ambitoprojectos>).

Activity Outline: The objectives of the grant will be to perform theoretical studies of adsorption of gases (e.g., carbon dioxide, methane, hydrogen) in hybrid mesoporous organosilica nanomaterials, using molecular simulation methods. The project involves collaboration between theoreticians and experimentalists at the Universities of Porto (LSRE) and Aveiro (CICECO).

Scientific Supervision: Doctor Miguel Jorge (LSRE – University of Porto) and Doctor José R. B. Gomes (CICECO – University of Aveiro).

Stipend: The financial aspects are outlined in the budget allowance of project PTDC/EQUEQU/099423/2010, which assigns a salary of 980€ per month (tax free), plus voluntary Social Security contributions, under the applicable Portuguese Law.

Academic Requirements: Prospective applicants should possess a Masters degree in Science or Engineering disciplines, with a preference for the areas of Chemical Engineering, Materials Science, Chemistry, and Physics.

Documents Required: i) Application letter; ii) *Curriculum Vitae*, dated and signed; iii) Photocopy (or scanned copy) of identity card or passport; iv) Academic degree certificate(s); v) Certificate of completed curricular subjects with respective classifications. Reference letters may also be sent, but are not mandatory. Applications should be sent by email to “mjorge (at) fe.up.pt” or by registered mail to Doctor Miguel Jorge, Laboratório de Processos de Separação e Reacção, Faculdade de Engenharia da Universidade do Porto, Rua Dr. Roberto Frias s/n, 4200-465 Porto, within the timeframe of the call.

Call start and finish dates: 24th of January to 11th of February 2011.



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Evaluation Criteria and Process: The evaluation criteria are: i) Final classification of Undergraduate and Masters degrees; ii) Scientific publication record; iii) Previous experience in related areas. The prospective applicant should be interested in progressing to perform a doctorate degree. All eligible candidates will first be classified in terms of absolute merit. Those approved will then be ordered consecutively in terms of relative merit. An interview with the candidates may be requested to assess their relative merit. The candidate rated highest in the relative merit list will be invited to occupy the position. The final results of the evaluation will be communicated by email.

Jury: The Jury responsible for the evaluation process is composed of: Doctor Miguel Jorge (Auxiliar Researcher from University of Porto), Doctor José R. B. Gomes (Auxiliar Researcher from University of Aveiro), and Doctor João Carlos Santos (Auxiliar Researcher from University of Porto).