

## Post-doctoral research grant (M/F)

Applications are invited for a 1 post-doctoral position in the project Polymer Reaction Engineering, with national financial support by FCT/MEC (PIDDAC) and also funded by the Fundo Europeu de Desenvolvimento Regional (FEDER) through Programa Operacional do Norte, with reference NORTE-07-0124-FEDER-0000014. The following conditions are applied:

**Scientific area:** Chemical Engineering or related areas

**Qualifications of the candidates:** Candidates with PhD degree in Chemical Engineering, Chemistry, Polymer Science or similar areas will be considered preferential. Past experience in polymer synthesis and characterization, namely in the field of polymers from biomass and microencapsulation will be considered as additional preferential conditions.

**Research plan:** The research plan is devoted to: (1) synthesis of polymers from biomass, namely synthesis of polyols by oxypropylation, polyurethanes and polyesters; (2) development of microparticles based on hybrid matrices (cellulose, chitosan, lignin, etc.) as vehicles for controlled delivery of active principles with interest in textile, food, cosmetic and pharmaceutical/medical areas; and (3) characterization of the produced materials/particles, namely by DSC/TGA.

**Legislation:** A fellowship contract will be celebrated according to “Regulations for Research Grants of the Foundation for Science and Technology-2013” (<http://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>), the Instituto Politécnico de Bragança (IPB) grant regulations, Lei n.º 40/2004 de 18 de Agosto (Status of Scientific Research Fellow), and the law “Decreto-Lei n.º 202/2012 de 27 de Agosto” and amended by “Decreto-Lei n.º 233/2012, de 29 de Outubro” and by the “Lei n.º 12/2013, de 29 de Janeiro.”

**Working place:** The working place will be at the IPB Pole of the Laboratory of Separation, and Reaction Engineering (LSRE-IPB), in Bragança. Research will be supervised by Professor Filomena Barreiro.

**Duration:** The grant duration will be 12 months, with beginning estimated to 1 November 2013. The grant may be renewed up to 30 of June of 2015. Grantee should be exclusively dedicated to this work.

**Monthly amount:** The monthly amount of the grant is € 1495,00 in accordance with the values stipulated for the country in the “Regulations for Advanced Training and Qualification of Human Resources” (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>) of FCT and shall be rendered payable via bank transfer to an account held by the grantee.

**Evaluation Criteria:**

The following parameters will be considered:

- 1 - PhD area: Chemical Engineering, Chemistry, Polymer Science or similar areas - 5 points; other areas - 0 points.
- 2 - Experience in polymer synthesis and characterization, namely in the field of polymers from biomass and microencapsulation - 5 points; similar areas - 1 point; other - 0 points
- 3 - Publications: ISI papers in the areas of Chemical Engineering, Chemistry, Polymer Science with emphasis on polymer synthesis and characterization, namely in the field of polymers from biomass and microencapsulation - 5 points; ISI papers in other areas - 1 point.

The two best classified candidates might be invited to an interview - to be classified up to 5 points.

**Jury composition:** The Jury is composed by: Prof. Filomena Barreiro (president), Prof. Rolando Dias (member), Prof. Luís Pais (member), Prof. Helder Gomes (substitute) e Prof. António Ribeiro (substitute).

**Notification of results:** The final evaluation results will be publicized through the ordered list of final rankings of all candidates posted in a visible and public place of the Department of Tecnologia Química (DTQB), Instituto Politécnico de Bragança (IPB), being the approved candidate notified via email.

**Application dates and documentation:** Applications should be performed between 30 of September and 11 of October 2013, only by email, and should include a presentation letter, detailed Curriculum Vitae and other documents that prove the abilities of the candidates.

Applications should be sent by email (only) with confirmation of receipt to:

Prof. Filomena Barreiro

Email: [barreiro@ipb.pt](mailto:barreiro@ipb.pt)

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