English version

THE RESEARCHER'S MOBILITY PORTAL . PORTUGAL



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Unique identifier: 581d68b3-365a-4a3b-b69a-5df1c95e7c94

English

- 1. Descrição do cargo/posição/bolsa
- BD_IgYPurTech

Job:

- Job/Fellowship Reference: BD_IgYPurTech
- Main research field: Chemistry

Sub research field:

Job summary:

Job summary: to investigate aqueous two-phase systems composed of ionic liquids as an alternative platform for the purification of biopharmaceuticals, particularly immunoglobulin Y (IgY) from egg yolk. The major goal of this PhD thesis consists on the development of a new technique for the selective extraction (purification) of IgY from raw egg yolk, i.e., to selectively separate the water soluble IgY from the yolk lipoproteins and other impurities. The research proposal contemplates an initial stage for the optimization of purification systems at the laboratory scale and further studies on the process scale-up.

Job description:

Project: IgY Technology: A Purification Platform using Ionic-Liquid-Based Aqueous Biphasic Systems (IgYPurTech) European Research Council, Grant agreement no.: 337753

Job summary: to investigate aqueous two-phase systems composed of ionic liquids as an alternative platform for the purification of biopharmaceuticals, particularly immunoglobulin Y (IgY) from egg yolk. The major goal of this PhD thesis consists on the development of a new technique for the selective extraction (purification) of IgY from raw egg yolk, i.e., to selectively separate the water soluble IgY from the yolk lipoproteins and other impurities. The research proposal contemplates an initial stage for the optimization of purification systems at the laboratory scale and further studies on the process scale-up.

Applications are open for the allocation of 1 PhD research fellowship, under the project "IgY Technology: A Purification Platform using Ionic-Liquid-Based Aqueous Biphasic Systems (IgYPurTech), from an European Research Council (ERC) Starting Grant, Grant agreement no.: 337753, at the Chemistry Department, CICECO (Centre for Research in Ceramics and Composite Materials), in University of Aveiro.

Scientific field: Chemical Engineering

Sub research fields: Biotechnology or Biochemistry

Requirements: (i) Degree (Licenciatura) and MSc in Chemical Engineering, (Bio)Chemistry or Biotechnology; (ii) Classification \geq 15 (in a 0-20 scale) in the final and/or MSc degree; (iii) good English communication; (iv) Facultative: Experimental experience in the field of aqueous two-phase systems, ionic liquids and/or proteins.

Regulation: The fellowship is in accordance with Law Nº. 40/2004, 18th August (Research Fellow Statute) and the Regulation of Scientific Research Grants from the University of Aveiro Regulation n.º 341/2011, published in Diário da República, 2nd series, n.º 98, 20th May.

Place of work and Scientific Orientation: The work will be carried out at the Chemistry Department, CICECO, University of Aveiro, Portugal. All the research activities will be supervised by Dr. Mara G. Freire and Dr. João A. P. Coutinho.

Duration of Activity: The fellowship has the duration of 12 months, renewable up to 36 months more, and scheduled to start in March 1st 2014.

Components of the Fellowship: The value of the scholarship follows the Tables announced by FCT: 980 € per month (http://alfa.fct.mctes.pt/apoios/bolsas/valores) plus an annual amount of 2750 \in for tuition fees support. The periodicity of the fellowship's payment is monthly and via bank transfer.

Criteria for evaluation of the candidates: Applications will be screened on the basis of: (i) Classification of the Degree (Licenciatura) and MSc held by the applicant; (ii) Scientific Curriculum Vitae; (iii) Experience in the determination of phase diagrams, thermophysical properties or separation methods; (iii) If the jury considers indispensable, interviews with the candidates may be held.

1. Job description

Jury: The panel responsible for selection will be composed of the following members: Mara G. Freire, João A. P. Coutinho and Ana M. Fernandes.

Notification of results: The selected candidate will be notified by e-mail.

Opening date and deadline for applications: Applications must be submitted from 15th of January to 15th of February 2014.

Documents of application: The application must contain the following documents: (i) Motivation letter highlighting the interest on this project (and with full contacts of the applicant); (ii) Detailed Curriculum Vitae; (iii) Copies of certificates or documents confirming the academic degrees/classifications; (iv) Copies of published/submitted scientific manuscripts and presentations in scientific conferences.

Applications should be sent by e-mail under the subject "ERC PhD Research Position" to Dr. Mara G. Freire: maragfreire@ua.pt

Vacant posts: 1

Type of contract: Information not available

Job country: Portugal

Job city: Aveiro

Job company/institute: Universidade de Aveiro

Application deadline: 15 Fevereiro 2014 (The Application's deadline must be confirmed on the Job Description)

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2. Dados de contactos da organização 2. Organization contact data

Organization/institute: Centro de Investigação em Materiais Cerâmicos e Compósitos (CICECO) - Universidade de Aveiro

Address: Campus Universitário de Santiago Aveiro - 3810-193 Portugal

Email: ciceco@ua.pt

Website: http://www.ciceco.ua.pt/

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3. Habilitações académicas 3. Required education Level

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4. Línguas exigidas 4. Required languages

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5. Experiência exigida em investigação 5. Required research experience

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