For Organisations

Universidade do Minho - 3 B's - Research Group - Biomaterials, Biodegradables and Biomimetics
Last access on:10-07-2017 12:26:00

- View all research opportunities
- Post research opportunities

Overview
1. Job/Fellowship Description
2. Organization contact data
3. Required education Level
4. Required languages
5. Required research experience

Job/Fellowship Status

Information for FCT

- Find the ideal candidate
- Edit organisation data
- Log out

Post Research Opportunities

Unique identifier: 5d0382be-40ed-4c6a-9d73-8aad83cdc072

English

1. Descrição do cargo/posição/bolsa
1. Job description

Job:
POST-DOCTORAL RESEARCHERS IN BIOINFORMATICS AND IMMUNOLOGY

Job/Fellowship Reference: BPD-ECM_INK-JULY-2017

Main research field: Not available

Sub research field:

Job summary:

POST-DOCTORAL RESEARCHERS IN BIOINFORMATICS AND IMMUNOLOGY

Under the Consolidator ERC Grant – ECM_INK

3B's Research Group

Biomaterials, Biodegradables and Biomimetics

University of Minho, Portugal

Fellowship Reference: BPD-ECM_INK-JULY-2017

In the scope of the ERC Consolidator Grant "ECM_INK - Cells-self Extracellular Matrices-based Bioinks to create accurate 3D diseased skin tissue models", the 3B's Research Group (www.3bs.uminho.pt) from the University of Minho, Portugal, is opening **2 post-doctoral research positions** in the fields of **bioinformatics and immunology**.

The positions are aimed at young, committed and passionate researchers willing to develop multidisciplinary research integrating a team specifically gathered with the objective of building pathophysiological relevant in vitro 3D models of diseased skin under the scope of a prestigious 5 years ERC project awarded to Dr Alexandra Marques (http://3bs.uminho.pt/users/apmarques).

The proposed challenge is expected to contribute for the development of reliable in vitro 3D cell-based platforms with major impact in the reduction/elimination of animal experimentation, diseases modelling and drug development.

The positions are an excellent opportunity for a highly ambitious, motivated and innovative scientist to expand their skill-set, with additional training in state-of-the art methods for the study of skin diseases while providing new testing systems for advanced therapeutics.

Research at the 3B's Research Group

The 3B's Research Group is a Research Unit of the University of Minho. The core activity of the group is at the interface between materials engineering, life sciences and biotechnology covering a series of multidisciplinary aspects with the goal of developing new advanced therapies for the regeneration of human tissues, including skin.

3B´s Research Group leads the European Institute of Excellence on Tissue Engineering and Regenerative Medicine, with headquarters installed in a state of the art building in Avepark, Taipas, Guimarães. The research infrastructure possesses facilities specifically designed to execute state of the art tissue engineering related research, which is performed in a highly dynamic, interdisciplinary and international environment.

Job description:

Position Description

Profile 1 - Bioinformatics

The successful applicant is expected to apply relevant bioinformatics, statistics and systems biology tools to perform analysis of genomic and transcriptomic data to generate models of the regulation of pathophysiological signalling pathways of skin diseases. The position will require the development of analysis solutions using established data-processing pipelines (e.g. for proteomics or image analysis; accessing online databases and repositories), novel coding (e.g. Matlab, Python) and statistical analysis (e.g. using 'R').

The post-doctoral researcher will also provide bioinformatics expertise to complementary works on the analysis and interpretation of large datasets produced from '-omics' and high-content imaging methods.

Duties will include design and execution of experiments, data processing, presentation and preparation for publication, and training of co-workers.

The applicants should hold a PhD degree in Bioinformatics or related area with relevant experience in in silico modelling and data management and treatment. We are strongly interested in the position holder bringing new technical expertise from relevant fields including, but not limited to, skin biology and disease modelling.

Autonomy, ambition, strong team spirit and commitment to research excellence, and willingness to participate in the activities of the group are expected. The applicant should have strong written and oral communication skills.

Good proficiency in the English language is required.

Profile 2 - Immunology

The candidate is expected to apply the immunology expertise to define, throughout the different stages of the project, the conditions to generate in the 3D in vitro models an "innate" simplified immune system. Specific work on the pathophysiology of the autoimmune skin disease pemphigus vulgaris will be required for the development and validation of the respective model.

The post-doctoral researcher will also provide immunology-related expertise to complementary works on the development of biomaterial-based immunotherapies.

Duties will include design and execution of experiments, data processing, presentation and preparation for publication, and training of co-workers.

The applicants should hold a PhD degree in Cell Biology or related area with a strong background in immunology. We are strongly interested in the position holder bringing new technical expertise from relevant fields including, but not limited to, skin biology and diseases, and in vitro and in vivo models.

Autonomy, ambition, strong team spirit and commitment to research excellence, and willingness to participate in the activities of the group are expected. The applicant should have strong written and oral communication skills.

Good proficiency in the English language is required.

Fellowship Notes

Fellowship Term and Legal Status: The fellowships will last 1 year each and are expected to start in October 2017. The fellowship contract may be renewed, upon positive evaluation, with a possibility for an extension until the end of the project, 30th of April 2022. It is a full time research fellowship and all the conditions established by the Portuguese Foundation for Science and Technology will be applied (more information http://www.fct.pt).

Fellowships Value: The fellowships value will be based on the Portuguese Foundation for Science and Technology rules for fellowships, ie, a monthly stipend of 1495 € (euros) for research fellowship – PhD level (tax free) (more information http://www.fct.pt).

Application Procedures

Documents: Motivation letter (maximum one A4 page), copy of the Certificate of academic degree(s), detailed Curriculum Vitae and two reference letters.

Period of application: The Applications should be submitted (using the Fellowship Reference: BPD-ECM_INK-JULY-2017) from 10th of July to 25th of August 2017, by e-mail to info@3bs.uminho.pt or regular mail to:

A/c Dr Alexandra Marques

3B's Research Group - Biomaterials, Biodegradables and Biomimetics

University of Minho

Headquarters of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine

AvePark - Zona Industrial da Gandra

4805-017 Barco GMR

Guimarães, Portugal

Selection methods: Curriculum Evaluation and Interview. The evaluation criteria for each method is as following:
A. Curriculum Evaluation (50%)
A.1. Academic qualifications
A.2. Research Experience under the project scope
B. Interview (50%)
B.1. Professional and social skills.

The candidates will be classified with a scale of 1 to 20 for each criterion, and candidates classified with a score below 15 in the Curriculum Evaluation will not be admitted to the Interview. In the stage of interview the candidates scoring bellow 15 will be also excluded.

Jury Panel: Dr. Alexandra P. Marques (President), Prof. Rui L. Reis, Dr. Rogério Pirraco and Dr Mariana Cerqueira.

Vacant posts: 2

Type of contract: Other

Job country: Portugal

Job city: Caldas das Taipas

Job company/institute: Universidade do Minho - 3B's Research Group

Application deadline: 25 Agosto 2017
(The Application's deadline must be confirmed on the Job Description)

Top of page

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

Organization/institute: Universidade do Minho - 3 B's - Research Group - Biomaterials, Biodegradables and Biomimetics

Address:
Avepark - Zona Industrial da Gandra
Guimarães - 4805-017
Portugal

Email: info@3bs.uminho.pt

Website: http://www.3bs.uminho.pt/

Top of page

3. Habilitações académicas
3. Required education Level

Degree:	The applicants should hold a PhD degree in Bioinformatics or related area with relevant experience in in silico modelling and data management and treatment. The applicants should hold a PhD degree in Cell Biology or related area with a strong background in immunology.
Degree field:	Not available

Top of page

4. Línguas exigidas
4. Required languages

Language:	English
Priority:	High
Reading:	Excelent
Writing:	Excelent
Comprehension:	Excelent
Conversation:	Excelent

Top of page

5. Experiência exigida em investigação
5. Required research experience

Empty

Top of page