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

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English

1. Descrição do cargo/posição/bolsa

1. Job description

Job:

RESEARCH POSITIONS IN CELL BIOLOGY AND BIOMEDICAL ENGINEERING

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

Main research field: Not available

Sub research field:

Job summary:

RESEARCH POSITIONS

Under the Consolidator ERC Grant – ECM_INK

3B's Research Group

Biomaterials, Biodegradables and Biomimetics

University of Minho, Portugal

Fellowship Reference: BIM-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 research positions** in the fields of **Cell biology and Biomedical Engineering**.

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.

Selected candidates will have the possibility to enrol one of the two Doctoral Programmes coordinated by the 3B's Research Group (<http://termcsc.3bs.uminho.pt/content/fellowships>; <http://path.3bs.uminho.pt/programme-requirements>); the Doctoral Program on Tissue Engineering, Regenerative Medicine and Stem Cells aiming at providing training of excellence to young hybrid researchers in interdisciplinary fields, or the Doctoral Program in Advanced Therapies for Health, co-directed by Dr Marques that provides advanced training to develop novel advanced therapies for the large array of unmet clinical needs.

The positions are an excellent opportunity for highly ambitious, motivated and innovative scientists to build on 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. 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 - Cell Biology

The successful applicant is expected to develop fundamental research on tailoring cells extracellular matrices secretion and composition to be used in the generation of in vitro 3D models of diseased skin. The position will require the establishment, optimization and full characterization, using forefront genomic and proteomic tools, of cell cultures from patient's biological material.

Collaborative effort in the development of new bioinks that will be used in the biofabrication of the models will play a significant part of the work to be developed.

Specific work on the pathophysiology of the genetic skin disease epidermolysis bullosa will be required for the development and validation of the respective model.

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

The applicants should hold a MSc degree in Cell Biology or related area. Experience and/or skills on animal cell culture, genomic or proteomic techniques and skin biology will be valued.

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 - Biomedical Engineering

The successful applicant is expected to develop research on the optimization of the bioprinting conditions to generate the in vitro 3D models of diseased skin. The position will require the tailoring of biomaterials properties as well as the definition of the processing window using the innovative elements of both the biofabrication and bioinks.

Collaborative effort in the development of new bioinks that will be used in the biofabrication of the models will play a significant part of the work to be developed.

Specific work on the creation of a branched structure within the models during the biofabrication aiming to generate a vascular-like structure will be required.

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

The applicants should hold a MSc degree in Biomedical Engineering or related area. Experience and/or skills on biofabrication techniques, biomaterials characterization and processing will be valued.

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 up to 4 years. 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 980 € (euros) for research fellowship – MSc 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: BIM-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

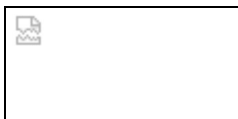
Guimarães, Portugal

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 below 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)

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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/>

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3. Habilitações académicas 3. Required education Level

Degree:

The applicants should hold a MSc degree in Cell Biology or related area. Experience and/or skills on animal cell culture, genomic or proteomic techniques and skin biology will be valued. The applicants should hold a MSc degree in Biomedical Engineering or related area. Experience and/or skills on biofabrication techniques, biomaterials characterization and processing will be valued.

Degree field: Not available

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4. Línguas exigidas
4. Required languages

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

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5. Experiência exigida em investigação
5. Required research experience

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