

International call for a PhD Holder Position to pursue scientific research

Reference: CT UCVE 25/18 - POCI-01-0145-FEDER-029232

Title: **SPINMESH** - MELT ELECTROSPINNING OF POLYMERIC BIOABSORBABLE MESHES FOR PELVIC ORGAN PROLAPSE REPAIR

Main research field: Biotechnology and Health

Sub research field: Biomechanics

Within the framework of article 23 of Decree-Law no. 57/2016, of August 29, and taking into account the legal regime to which it refers, an international call for holders of a PhD degree is open for a position to pursue scientific research activities funded by national funds through the Fundação para a Ciência e Tecnologia, I.P.

1. This is a research position to pursue scientific research activities within the framework of the project entitled “*SPINMESH - Melt electrospinning of polymeric bioabsorbable meshes for pelvic organ prolapse repair*”, under a non-fixed term work contract, with the primary objective to carry out the activities foreseen in the project proposal.

2. Duration: 12 months, renewable until the end of the project.

3. Applicable Legislation: Decree-Law no. 57/2016 of August 29th, amended by Law 57/2017 and Regulatory Decree No. 11- A / 2017 which approved the doctorate hiring regime destined to stimulate scientific and technological employment for all knowledge areas (RJEC); Portuguese Labour Code, approved by Law 7/2009 of February 12, in its actual form.

4. Pursuant to article 13 of RJEC, the selection panel is formed by: Prof. Dr. Pedro Ponces Camanho, Faculty of Engineering, University of Porto (FEUP), President of the Scientific Council), Prof. Dr. António Augusto Fernandes (FEUP), Prof. Dr. Renato Manuel Natal Jorge (FEUP) and Prof. Dr. Marco Parente

5. The workplace will be at INEGI premises, Porto.

6. Monthly remuneration to be paid is the one set by article 23 (3) of RJEC, corresponding to level 33 of the Single Salary Table, approved by Order no. 1553-C/2008 of December 31st, i.e. 2.128,34 Euros.

7. If the doctoral degree has been conferred by a foreign higher education institution (not Portuguese), it must comply with the provisions of Decree-Law no. 341/2007, of October 12, and with all formalities established therein must be fulfilled by the application deadline.

8. Admission requirements:

Application can be submitted by any national, foreign and stateless candidate(s) holding a doctorate degree in Mechanical Engineering or related fields, in particular Biomechanics, and a scientific and/or professional curriculum, in particular:

- Relevant experience and solid knowledge of finite element modelling and computational tools for simulation, in particular ABAQUS;
- Outstanding track record of scientific publications on ISI indexed journals;
- Critical and analytical thinking;

- interpersonal skills, integrity, professionalism, initiative, responsible behaviour at work and communication skills;
- Excellent English language skills (both writing and speaking).

9. Pursuant to *article 5 of RJEC*, the selection is to be made based on the evaluation of the scientific and curricular career of the candidate.

10. The scientific and curricular career evaluation will focus on the relevance and quality of:

- I. the scientific production in the last five years;
- II. the research activities, both fundamental and/or applied science, developed in the last five years;
- III. transfer of knowledge and dissemination activities developed in the last five years;

Preference will be given to candidates that demonstrate solid numerical modelling knowledge/competences and experimental skills

11. Evaluation Process

The evaluation process consists of two phases:

- Evaluation of the candidate CV
- Interview

11.1. Evaluation of the candidate CV

The evaluation of the CV of the candidates, in particular the scientific merit and research experience, will take into consideration its relevance to the work to be conducted within the project, according to the following criteria:

- AI.** Quantity and quality of the scientific publications and its impact as measured by SCOPUS citation index: 40%
- AII.** Coordination and participation in research projects: 25%
- AIII.** Extension and dissemination activities: 10%
- AIV.** Relevance of the CV for the research activities to be conducted within the project: 25%

A maximum of 100 points will be given to each criterion AI to AIV. The final score of the curricular assessment will be calculated by the following formula:

$$A=0.25AI+0.40AII+0.25AIII+0.10AIV$$

11.2. Interview

The two candidates with the best scores, **which must be above 70%**, will be invited to an interview, which among others will evaluate personal effectiveness competences and workplace competences .

12 Final score and selection

The final score will be calculated by the following formula:

$$Sc=0.90A+0.10B$$

Where **A** corresponds to CV evaluation (according to **11.1**) and **B** corresponds to the interview

The final classification of each candidate, based on a scale from 0 to 100, is given by the arithmetic mean of the classifications attributed by the members of the jury. In the event of a tie, the chairman of the jury the Chairperson shall cast a tie-breaking vote.

13. Application Documents:

- i) Cover Letter describing the motivation to apply to the particular position (max. 2500 characters, including spaces);
- ii) Detailed Curriculum vitae in accordance with the requirements of the application and organized according to the criteria described in 11. A) ;
- iii) Certificate or diploma copy of the doctoral degree;
- iv) Any relevant documents demonstrating the candidate's adequacy for the requested profile;
- v) A brief description of the most relevant scientific and innovation/dissemination activities of the last 5 years (1-page maximum).

15. The candidates shall submit their application files and support documentation, at the official INEGI's page at www.inegi.up.pt Working at INEGI | Available Vacancies, pressing **Submit CT UCVE 25/18** from 05th July to 16th August 2018, or by post to:

INEGI – Instituto de Ciência e Inovação em Engenharia Mecânica e Engenharia Industrial
Serviços de Recursos Humanos
Rua Dr. Roberto Frias, 400
4200-465 Porto
Portugal

16. The final results of the evaluation will be published online: <http://www.inegi.up.pt>

17. The selection of candidate to be hired is determined by orientations and regulations issued by Fundação para a Ciência e Tecnologia upon verification of all legal requirements. INEGI is entitled to annihilate the present process in case the legal requirements are not fulfilled.

18. Non-discrimination and equal access policy: INEGI actively promotes a non-discrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, sex, sexual preference, marital status, family and economic conditions, instruction, origin or social conditions, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological convictions and union membership.

19. According to Decree-Law no. 29/2001 of 3 February, disabled candidates shall be preferred in a situation of equal classification, and said preference supersedes any legal preferences. Candidates must declare, in their honour, their respective disability degree, type of disability and communication/expression means to be used during selection period on their application form, under the regulations above.