

MINUTES OF THE SELECTION PROCESS FOR THE RECRUITMENT OF A RESEARCHER
TO WORK IN THE PROJECT PTDC/EME-APL/1342/2020

Profile Reference: RH CT 1342 UBS 28/2021

Title: CyclicCell – Cyclic loading effects in bladder cancer cells

ADMISSIONS TO CALL, EVALUATION AND APPLICANTS SERIALIZATION

1. Admissions to call

The applicants are the following:

- Hugo Miguel Andrade Lopes Figueiredo da Silva
- João Pedro Sousa Ferreira

2. Evaluation and ranking of the applicant

The candidates met all the criteria for the present profile reference. The following table summarizes the followed criteria, respective weight and evaluation:

Candidate	Criterion	Weight (%)	Analysis	Score	Weighted Final Score
Hugo Miguel Andrade Lopes Figueiredo da Silva	CV Analysis	100%	The candidate presents strong knowledge in ANSYS and in simulations involving materials processing. The candidate is an expert in modeling the mechanical behavior of thin-walled/sandwich structures. The candidate does not have experience with ABAQUS and with cell mechanics. The candidate participated in 5 research projects. The candidate has a record of 9 published papers in journal with moderate impact, 10 conference publications, and 1 patent; all related with non-biomechanical problems. The candidate also participated in several conferences.	AI=35% AII=60% AIII=55% AVI=95%	55.75%
	Interview	-		-	-
TOTAL SCORE					55.75%
João Pedro Sousa Ferreira	CV Analysis	100%	The candidate presents strong knowledge in soft tissues biomechanics and characterization; experience in atomic force microscopy and cell mechanics experimentation; solid knowledge in	AI=90% AII=85% AIII=95% AVI=95%	90.25%

	Interview	-	finite element simulations with ABAQUS. The candidate has an outstanding record of scientific production in the above fields, international experience, and excellent English language skills. The candidate has a record of 19 published papers in journals with high impact, and 4 patent submissions. The candidate is the PI in a research project and participated in several research 6 other research projects; has capacity for carrying out independent and responsible work, strong interpersonal and multidisciplinary communication skills and good critical analysis and objective oriented behavior skills.	-	-
	TOTAL SCORE				90.30%

Based on the curricular evaluation of the eligible candidates, with the criteria defined in the Notice, the jury decided on the following classification (0-100), corresponding to the arithmetic average of the grades of each member:

- Hugo Miguel Andrade Lopes Figueiredo da Silva (55.75)
- João Pedro Sousa Ferreira (90.25)

After curricular evaluation, the jury decided to not interview the candidates since the difference between the two candidates in total score is larger than 10.00.

Based on the final score, the jury unanimously decided to select candidate João Pedro Sousa Ferreira for the research grant. The candidate João Pedro Sousa Ferreira meets all the admission requirements of the call for applications. The selected candidate has an excellent experience in the area of biomechanics and cell mechanics. He has been directly involved in international projects as part of her PhD program, where he gained a solid knowledge in soft tissue biomechanics, soft tissue characterization and in atomic force microscopy; gained experience in characterization of smooth muscle cells; and has experience in numerical simulation. The selected candidate has already an excellent track record of publications, considering that he completed his PhD recently, with a total of 19 papers in international journals of high impact factor and quartile. He has a total of 67 citations and an h-index of 5. The applicant has participated in several research projects as a grant holder and has experience of supervising MSc students within MSc courses offered by the Faculty of Engineering, University of Porto.

Porto, September 10th 2021