



Job offer for researchers, research technicians or research support officers under Chapter 6 allocation

Job offer

Title

4/2023 - Postdoctoral Position in Computational Physics

Main researcher

Name: Joan Josep

Last name 1: Cerdà

Last name 2: Pino

Department: Institute for Applied Computing and Community Code (IAC3)

Contract details

Job description

A postdoctoral position for 2 years in the field of computational fluid mechanics applied to the study of the fluid-structure interaction problem is available at the University of the Balearic Islands. The postdoc will join an ongoing project related to the numerical study of smart coatings and the endothelial glycocalyx [LEGOCITS: (PID2020-118317GB-I00/AEI /10.13039/ 501100011033)], in the WP the postdoc will help us (in all subtasks ST 2.1 to 2.4), in subtask 3.1 of WP3, and in WP4. In WP1, it will help us to study glucocalism in the microscopic domain, characterizing elasto-hydrodynamic lift, active forcing in particle flow, the study of particle permeability and penetration. At WP2, the postdoc will help us in creating a new numerical code, studying with this new microparticle flow code, and permeability and permeation barriers, and the interaction of red blood cells with glucocalis. In WP3, the postdoc will help us in the design and creation of optimized coverings by means of the biomimetic approach. In WP4, the postdoc will help us in the transversal tasks associated with the project.

Category: R2 - Doctor (PhD)

Qualification: PhD or equivalent

Field of research: Physics

Subarea of research: Computational Physics

Contract type details

Type of contract: Permanent

Full/Part-time: Full-time

Hours per week: 37,5

Work schedule: 8:00 a 17:00

Application submission deadline

From Friday, March 31, 2023 until Monday, April 24, 2023



Planned start date: Monday, May 29, 2023

Planned end date of the tasks subject to the contract: Wednesday, April 24, 2024

Research project / Agreement

Type of activity: Project

Funding body: MINISTERI DE CIÈNCIA I INNOVACIO

Call: Ajuts a Projectes d'I+D+i en el marc del Programa Estatal de Generació de Coneixement i Enfortiment Científic i Tecnològic del Sistema d'I+D+i i del Programa Estatal d'I+D+i Orientada als Reptes de la Societat

Programme: Programa Estatal de Generació de coneixement i Enfortiment Científic i tecnològic del Sistema R+D+i: Projectes d'R+D de Generació del Coneixement

Reference number / Official code: PID2020-118317GB-I00

Number of positions available: 1

Candidate requirements

Skills/Qualifications

PhD in Physics, Engineering or Mathematics

Specific requirements

Preference will be given to candidates with programming skills in Python and C++ languages.

Preference will be given to candidates with knowledge of boundary element and finite element methods (BEM and FEM, respectively) and experience in some of the following techniques: Molecular Dynamics, Lattice-Boltzman, Multi-Particle Collision Dynamics and other mesoscale simulation techniques.

Language requirements

Candidates must be fluent in English.

Experience required: -

Prior experience

PhD students close to completing their PhD may also apply for the position

Additional information

Monthly salary and benefits: 2.300,00 €

Selection process

In accordance with article 8 of the REGULATORY AGREEMENT 145140 of 15th June 2022 that approves the regulation governing the recruitment of research staff under chapter 6 allocation of the university budget, as well as technical or operational research staff.

Eligibility criteria:

- Curricular merits in the field (max. 40 points).
- Qualifications in the specialist area (max. 20 points), other (max. 5 points).
- Video curriculum and, if applicable, personal interview (max. 20 points).
- Experience in the field (max. 15 points). E.g.: > 3 years (10 points), < 3 years (5 points).



- Other merits (max. +5 points). E.g.: recommendation letters.
Eligibility threshold: 60 points.

Selection comitee

- i. The relevant Pro-Vice-Chancellor for research (or delegated representative) as chair.
- ii. The supervisor (or delegated representative).
- iii. The members of the Research Area Assessment Committee (CARAI).
- iv. One or more expert members in the topic pertaining to the recruitment and chosen by the chair of the committee, where applicable.
- v. The head of FORHU (or delegated representative), as secretary, who may speak but not vote.

Additional comments

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