



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

Job offer

Title

93/2022 - Postdoctoral contract in Computational Fluid Mechanics

Main researcher

Name: Joan Josep

Last name 1: Cerdà

Last name 2: Pino

Department: Department of Physics

Contract details

Job description

A two-year postdoctoral contract 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)]. Required selection criteria: candidates must have PhD in physics or engineering, and experience in the field of computational physics, as well as to be highly fluent in English. Advanced programming skills in Python and C++ languages are also required. Preference will be given to candidates with knowledge in Boundary Element (BEM) and Finite Element (FEM) methods. Experience in some of the following techniques will also be an asset: Molecular Dynamics, Lattice-Boltzman, Multi-Particle Collision Dynamics, as well as other mesoscale simulation techniques.

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: Flexible

Application submission deadline

From Monday, December 05, 2022 until Tuesday, December 20, 2022



Planned start date: Monday, February 13, 2023

Planned end date of the tasks subject to the contract: Thursday, February 13, 2025

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 or Engineering

Specific requirements

Advanced programming skills in Python and C++ languages are required. Preference will be given to candidates with knowledge in Boundary Element (BEM) and Finite Element (FEM) methods. Experience in some of the following techniques will also be an asset: Molecular Dynamics, Lattice-Boltzman, Multi-Particle Collision Dynamics, as well as other mesoscale simulation techniques

Language requirements

The candidate must be highly fluent in English

Experience required: 1-4 years

Prior experience

Advanced programming skills in Python and C++ languages are required. Preference will be given to candidates with knowledge in Boundary Element (BEM) and Finite Element (FEM) methods. Experience in some of the following techniques will also be an asset: Molecular Dynamics, Lattice-Boltzman, Multi-Particle Collision Dynamics, as well as other mesoscale simulation techniques

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

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

Additional comments

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Reference project PID2020-118317GB-100 financed by MCIN/ AEI /10.13039/501100011033.

