International Centre for
Numerical Methods in Engineering

cimne@cimne.upc.edu
+34 93 401 74 95

CIMNE - Edifici C1 Campus Nord UPC
C/ Gran Capità, S/N
08034 Barcelona, Spain

Centre Internacional de Mètodes Numèrics a l'Enginyeria ® Q5850006G

CONVOCATORIA PARA LA PROVISIÓN DE PUESTO DE TRABAJO

VAC-2023-17 – Research Engineering Position in the BIOMEDICAL Engineering Department

Number of places: 1

Category: **Research Engineer – RENG5**

Workplace: Barcelona-España

Weekly working hours: 40

Job description:

The Biomedical Engineering (BME) group of CIMNE offers software solutions to automatically transform medical imaging to create a 3D digital twins of the patients to help diagnostics, to virtually try treatments, and to automatically design optimal braces and devices. One of the main areas of activity of the BME group is the field of personalized cardiovascular devices. For medical companies and physicians who need to improve their personalized designs, BME brings innovative tools based on our numerical simulation technology to better design cardiovascular medical devices during the pre-prototype stage. We aim at making patient care more personalized and secured. The objective of the position is to work on the subject Computational Fluid Dynamics (CFD / FSI) for study cardiovascular pathologies.

Education and training required:

1. Knowledge of Numerical Codes
2. Knowledge of programming (Python, C++).
3. Formation: Master in Engineering/Mathematics/physics
4. Publish on subjects related to Biomedical Engineering area.
5. Required Languages: English
6. Formation: Master in Engineering, Mathematics or Physics.

Qualification system:

The requisites and merits will be evaluated with a maximum note of 100 points. Such maximal note will be obtained summing up the following points:

1. Academic Titles: 20%
2. Professional Experience: 20%
3. Personal Interview: 60%

Candidates must complete the "Application Form" form on our website, indicating the reference of the vacancy and attaching the required documents (CV, Motivation letter)

The deadline for submitting applications is March 14th, 2023, at 12 noon.

The preselected candidates may be requested to send the documentation required in the "Requirements" and "Merits" sections, duly scanned, and may be called to go through selection tests (which might be of eliminatory nature) and / or personal interviews.