**International Centre for
Numerical Methods in Engineering**

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ANNOUNCEMENT FOR PROVISION OF THE WORKPLACE

VAC-2023-22 – Visiting Full Research Professor position in the Kratos Multiphysics Group

Number of places: 1

Category: Full Research Professor

Workplace: Barcelona

Salary (gross): 12.961,66€ salary for two months

Weekly working hours: Full Time

Duration: 2 months

Starting date: No later than June 2023, ideally April or May 2023

Functions to be developed:
The eFlows4HPC project, funded by H2020-JTI-EuroHPC-2019-1 call (GA 955558) aims at the development of integrated workflows for the development of simulation based digital twins. One of the key technologies to be explored is the shifted boundary method. The project ultimately aims at integrating such technology together with adaptive remeshing technologies and model order reduction approaches in order to define a reliable pipeline towards the definition of simulation-based Digital Twins to be used in manufacturing.
Current Call aims at hiring top international expertise for a research stay at CIMNE to collaborate eFlows4HPC.
The functions assigned to the candidate will be:
- Participate in the development of the eFlows4HPC project.

- Perform joint research in topics related to the Project (particularly in the application of the shifted boundary method in applications of fracture and possibly CFD).

Required skills:

- Top Level experience in numerical methods

- Expertise on the "shifted boundary" method or alternative techniques

- Expertise in the development of novel numerical techniques

- Fluent writing/speaking skills in English

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:

- Previous research and academic experience in the field of the position: 90%
- Language skills: 10%

Candidates must complete the "Application Form" form on our website, indicating the reference of the vacancy and attaching the required documents.

The deadline for registration to the offer ends on April 25, 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.