International Centre for
Numerical Methods in Engineering

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ANNOUNCEMENT FOR PROVISION OF THE WORKPLACE

VAC-2022-30 – Visiting Associate Research Professor position in the Kratos Multiphysics Group

Number of places: 1

Category: Associate Research Professor

Workplace: Barcelona

Salary (gross): 15.957,82 EUR

Weekly working hours: Full Time

Contract type: Indefinite by scientist activities

Duration: Until the end of the project

Starting date: No later than June 2022, ideally May 2022

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 "shifter boundary" method or alternative techniques

- Expertise in the development of novel numerical techniques

- Fluent writing/speaking skills in English

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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 May 17, 2022 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.