International Centre for Numerical Methods in Engineering

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ANNOUNCEMENT FOR PROVISION OF THE WORKPLACE

VAC-2022-84 – Research Engineer (eFlows4HPC project)

Number of places: 1

Category: RENG-2

Workplace: Barcelona

Salary (gross): 37.570,02€/year

Weekly working hours: 40h/week

Functions to be developed:

The goal of the eFlows4HPC project is to establish high performance workflows for the construction of simulation based digital twins. The proposed position targets the use of Machine Learning tools to this end, with the aim of achieving efficient reduced order modelling approaches while taking advantage of high performance computing hardware.

Required skills:

- Education: Master or PhD degree in mechanical/civil/aerospace engineering or physics. Alternative curriculums will be considered
- Knowledge of Finite Element method and programming in C++/python

Other valued skills (not mandatory):

- Knowledge of Machine Learning libraries and ability to program and train ML algorithms
- Ability of writing scientific papers/reports

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:

- Education, publications and relevant experience: 20%
- Knowledge of numerical methods: 15%
- Programming experience and skills: 30%
- Language skills: 5 % (English)

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- Test and/or interview: 30 %

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 **12th of December, 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.