

CONVOCATÒRIA PER A LA PROVISIÓ DEL LLOC DE TREBALL

VAC-2018-20 - PhD Position in the framework of ExaQUteproject - Kratos team

Number of places: 1

Category: PhD student

Workplace: Barcelona

Salary (gross): 20.000€

Weekly working hours: 40

Contract Type: Pre Doctoral

Duration: 3 years

Scope

The objective of the position is to develop a PhD work on the subject of gradient-based optimization. Such work will be carried out by developing adjoint based techniques in conjunction with Immersed FEM models. The developments will have to be carried out within the Kratos framework as a part of the ExaQUte project.

Functions to be developed:

1. Participate in the development of the ExaQUte project. This includes software developements and reporting.
2. Develop a PhD thesis on subjects related to Gradient-Based optimization with Immersed FEM models
3. Publish on subjects related to ExaQUte.
4. Develop within the framework of the Kratos project.

Education and training (required):

1. Formation: Master in Engineering or Mathematics
2. Basic Knowledge of programming (Python, C++).
3. Required Languages: English
4. Knowledge of FEM and Optimization Techniques

Other valued skills (not mandatory):

1. Knowledge of Object Oriented programming
2. Spanish

Centre Internacional de Mètodes Numèrics a l'Enginyeria (CIMNE)

Edifici C1, Campus Nord UPC, Gran Capità s/n, 08034, Barcelona – Telèfon 93 401 74 95 – cimne@cimne.upc.edu

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. Additional Training: 10%
3. Professional Experience: 10%
4. Tasks assigned during the review process: 20%
5. Personal Interview: 40%

The curriculum and references have to be submitted to the email seleccio@cimne.upc.edu, specifying as subject: VAC-2018-20.

The deadline for submitting applications is June 30, 2018 at 12am.

Pre selected candidates will have to send to seleccio@cimne.upc.edu all the supporting documents. The candidates may be required to hold an interview, which may be online.

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