

CONVOCATORIA PARA LA PROVISIÓN DE PUESTO DE TRABAJO

VAC-2019-47 – Post-doc researcher in the CompMAM project

Number of places: 1

Category: Post-doc researcher PDOC1

Workplace: Barcelona

Salary (gross): 36.504,81 €

Weekly working hours: full-time

Contract Type: Temporal

Duration: 6 months

Functions to be developed:

CIMNE is looking for a **Postdoc researcher** to be part of the Research and Technical Development (RTD) Group on “Large Scale Scientific Computing (LSSC)” in the framework of the **CompMAM Europa Excelencia project funded by the MCIU**.

The functions assigned to the candidate will be:

1. Plan and conduct high quality research under the supervision of Dr. Santiago Badia
2. Collaborate with various research groups across Europe and elsewhere
3. Document and disseminate the research results within CIMNE and externally
4. Publish in high impact journals (a minimum of 2 papers/year is envisaged)
5. Collaborate in the preparation of competitive RTD research proposals

Required skills:

1. Having obtained a PhD degree in computational mechanics, applied mathematics or related discipline.
2. Good publication record (a minimum of 6 papers published in indexed journals)
3. Good knowledge of English, both written and spoken.
4. Good knowledge of the Finite Element Method and its high-performance implementation, in particular, embedded domain methods, error assessment and adaptive mesh refinement, and large-scale solvers for sparse systems of linear equations.
5. Good knowledge of the scientific computing programming languages Julia and FORTRAN 2008

Centro Internacional de Métodos Numéricos en Ingeniería (CIMNE)

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6. Good knowledge of the HPC finite element framework FEMPAR

Other valued skills (not mandatory):

- Previous research and/or academic experience in the field of the position
- Good programming skills
- Foreign language skills
- Good communication/Teaching skills
- Capacity to attract own funding sources proven by previous awards in competitive research fellowships

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. Publication and career track (40%)
2. Previous research and academic experience in the field of the position (20%)
3. Programming skills (20%)
4. Language skills (10%)
5. Communication/Teaching 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 December 15, 2019 at 12 noon.

The preselected candidates must send seleccio@cimne.upc.edu all the documentation required in the section "Requirements" and "Merits" duly scanned and may be called for the performance of selective tests (which may be of eliminatory nature) and / or personal interviews.