218_CASE_ES_R3

Job Reference

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Position

Senior Research Engineer (RE3)

Data de tancament

Diumenge, 24 Desembre, 2017

The Barcelona Supercomputing Center - Centro Nacional de Supercomputación (BSC-CNS) is the leading supercomputing center in Spain. It houses MareNostrum, one of the most powerful supercomputers in Europe, and is a hosting member of the PRACE European distributed supercomputing infrastructure. The mission of BSC is to research, develop and manage information technologies in order to facilitate scientific progress. BSC combines HPC service provision and R&D into both computer and computational science (life, earth and engineering sciences) under one roof, and currently has almost 500 staff from 44 countries.

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Context and Mission of the role

The Environmental Simulations group of the CASE Department develops and maintains tephra atmospheric transport models and theoretical models for ash aggregation, dynamics of volcanic plumes, gravity currents, and ash resuspension in order to assess impact of volcanic ash fallout on local communities and of volcanic ash clouds on civil aviation.

Responsibilities

- Lead the volcanic ash atmospheric impact services area, and develop a long-term strategic vision of the commercialization future of the research area for the aviation sector.
- Execute R&D projects and lead new innovative initiatives.
- Set and execute SMART (specific, measurable, attainable, realistic and timely) targets for the atmospheric impact services line.
• Coordinate a group of 5-10 researchers to develop an operational forecast system for the atmospheric impact of hazardous substances.
• Run and validate atmospheric transport simulations for volcanic ash.
• Lead the commercialization of the CASE atmospheric impact services, and ensure that projects are delivered on time according to the contractual scope.
• Be the main point of contact for customers, and deliver industry and invited talks.
• Provide 24/7 forecast validations and customer service.
• Lead the creation of a spin-off to provide commercial solutions capable to evaluate and manage volcanic hazards across multiple industries.

Requirements

• **Education**
  - PhD in Environmental Engineering with focus in atmospheric sciences.
  - Executive entrepreneurship and innovation postgraduate studies.

• **Knowledge and professional experience**
  - More than 10 years of experience in a relevant field. (e.g. geospatial technologies, atmospheric sciences).
  - A minimum of 5 years of international experience outside Spain.
  - Expertise in developing and executing atmospheric dispersion models for volcanic ash.
  - Experience with operational set-ups and Early Warning Systems.
  - Project management experience with acumen to pursue funding and execute R&D projects.
  - Familiarity with volcanic ash regulations for the aviation sector.
  - Experience in promoting and account managing relationships with industry stakeholders.

Competences

In order to be successful in this role the candidate should:

• Demonstrate critical judgment in the identification and execution of technical activities.
• Develop a strategic vision on the future of the technical field.
• Recognize the broader implications and applications of their technical support to the research.
• Have a proven record in securing technical/research funding /resources to promote technology transfer or to carry business prototype programs.
• Be able to create an innovative and creative environment for technical support.
• Be a proficient communicator and networker within and outside the technical/research community [creating networks].
• Act as a professional development role model for others CASE technologies to be transferred to the market.
• 24/7 availability under specific circumstances.

Conditions

• A competitive salary will be provided, matched to the cost of living in Barcelona, depending on the value of the candidate

Applications Procedure

All applications must be done through the BSC website:

Including:

1. Motivation letter and a statement of interest, including two recommendation letters or contacts.
2. A full CV including contact details.

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