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Open position at CIMNE/UPC, Barcelona (Spain)

The High Performance Scientific Computing (HPSC) research team at the International Center for Numerical Methods in Engineering (CIMNE), Universitat Politcnica de Catalunya (UPC), is seeking a candidate to work in the framework of the "FEXFEM: On a free open source extreme scale finite element software" project.

The main goal of FEXFEM is to consolidate the scientific computing software package being developed by the experts of the HPSC team, the so-called Finite Element Multiphysics PARallel software (FEMPAR), as a successful high-quality free open source software project. In order to reach such goal, FEXFEM includes a clear plan of activities including, among others, user's driver software design, code development and refactoring, task automation, unit/integration/regression testing, issue tracking, improved versioning capabilities, and documentation.

We are looking for highly motivated candidates with a BSc degree in computer science or strongly related engineering degree. A MSc degree and/or postgraduate training on parallel distributed-memory computing, or related area, would be highly appreciated, although it is not a must.

The mandatory skills for the position are:

- Excellent programming skills, both in scripting and compiled languages, preferably Fortran95/03 and python, resp.

- Expertise in Unix-like environments (mainly bash scripting).

The highly appreciated/optional experience are:

- Experience as a contributor in free open source software projects, ideally related to the scientific computing domain.

- Experience on the effective exploitation of standard tools for task automation and documentation in free open source software projects, such as e.g., CMake, CTest, Git, pFUnit, Bugzilla, and/or Doxygen.

- Experience with the compilation, installation, and usage of parallel distributed-memory libraries, as the candidate is also expected to develop and/or maintain interfaces to third party libraries, such as XDMF + HDF5 for parallel I/O.

The initial appointment will be for one year, although it is extensible depending on available funding.

Please contact sbadia@cimne.upc.edu, amartin@cimne.upc.edu or visit

http://badia.rmee.upc.edu/

https://web.cimne.upc.edu/groups/comfus/

for further information.

The position will remain open till appropriate candidates will be found but it is recommended to apply before the end of December, 2014. Send your application, providing CV, to

comfus@cimne.upc.edu