

Q1 What is your organisation's/project's name?

Barcelona Supercomputing Center - Earth Department

Q2 Your organisation's/project's website

<https://www.bsc.es/discover-bsc/organisation/scientific-structure/earth-sciences>

Q3 Are you?

A research organisation

Q4 Your name

Q5 Your email address

Q6 Your contact phone number

Q7 Please summarise who you are and what you do

I'm manager of the Computational Earth Science (CES) group at the Earth Sciences department in the Barcelona Supercomputing Center (BSC). The CES group is a multidisciplinary team of 19 members with different IT profiles that interacts closely with all the other groups of the Earth Sciences Dept. The group has among its tasks providing help and guidance to the scientists with the technical issues related to their work and developing a framework for the most efficient use of HPC resources.

In the last years, I've been in charge for the system administration of all the computational resources of the department and also responsible of supervising the operational runs of the NMMB/BSC-Dust model and CALIOPE Air Quality System in the HPC infrastructures of the BSC. In that sense I've been involved in the analysis of the models to improve their performance and developed strong skills of compilation and scripting.

Q8 In what way would like to contribute to an EsD project? **An an application provider** ,
As a HPC user

Q9 What would be your contribution to an EsD project?

Expertise in Earth System models. Earth system models are a right example of application to be used as EsD. These applications are computing intense and ensemble workflows can fill any HPC machine available currently in the market.

Q10 What partners are you looking for?

Other people interested on having a EsD based on any earth system model.

Q11 Please include links to any additional material.

https://earth.bsc.es/wiki/doku.php?id=working_groups:computational_earth_sciences

Q12 Other comments/ideas

I'm also involved in this topics in the framework os ESiWACE CoE.
