

In the context of the CMS experiment operation and upgrade, the Institute of Physics of Cantabria - IFCA(CSIC-UC) is recruiting a

## Thermal-Mechanical Engineer (M/F)

For the analysis, design and verification of the CMS "on-detector" cooling distribution both in the thermal and mechanical domain.

Embedded in the CERN EP-DT-FS Cooling team and under supervision of cooling experts, you will be in charge of the following tasks:

- Performance evaluation of the present Phase I Pixel CO<sub>2</sub> cooling system, with comparison between design data and experimental data
- Thermal modelling of single and 2-phase cooling lines with MATLAB for phase II projects
- Mechanical verification of cooling circuits designs
- Setting and communicating standards among the different sub detectors
- Integration and coordination of cooling infrastructures with the sub detector responsible engineers or physicists
- Thermal testing of cooling lines in mock-ups
- Coordination of thermal tests done by the sub detector engineers or physicists
- Organizing meetings and reviews with the sub detector engineers or physicists

Are you a mechanical engineer with a practical approach and scientific interest in the physical phenomena of cooling systems? Are you able to judge and advice for mechanical structures and designs? Then you could be the colleague we are looking for.

The contract will have a duration of 2 years.

Please note that you will be employed by IFCA(CSIC-UC), but your place of work will be at CERN (Geneva, Switzerland)

Interested people can submit a motivation letter + CV by June 23<sup>rd</sup> to:

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