



Postdoctoral position on the Compact Muon Solenoid at the Vrije Universiteit Brussel, Belgium

The Brussels Interuniversity Institute for High Energies (IIHE ULB-VUB) combines the experimental particle and astroparticle research groups from two Brussels universities (Vrije Universiteit Brussel and Université Libre de Bruxelles). The IIHE is currently involved in frontier research in large international collaborations: CMS (at the LHC), IceCube (astroparticle physics at the South Pole), H1 (DESY, Hamburg) and OPERA (CERN-GranSasso), and in R&D in data acquisition systems. A local CMS Grid Tier2 computing center provides ample analysis resources. The working language is English.

The IIHE CMS group is heavily involved in top quark physics, searches for Z' , SUSY, fourth generation quarks and the Higgs boson. We contribute to the calibration and use of the CMS tracking and b-quark identification and were involved in construction of the CMS tracker, where we still hold responsibilities for calibration and operation. The CMS team in Brussels consists of over 30 physicists, engineers and support staff, and combines researchers from three Belgian universities working on both experimental and phenomenological aspects of physics at the Large Hadron Collider.

The IIHE CMS group has an opening for a postdoctoral researcher to strengthen our effort in searches for physics signal beyond the standard model in the heavy quark sector. This effort fits in seamlessly with the already present top quark and exotica activities at our institute, providing the necessary collaborative environment to effectively work on data analysis in Brussels.

We are seeking an outstanding individual who has obtained (or is about to obtain) a Ph.D. in experimental particle physics. A position for two years is available starting November 2011, although for exceptional candidates a different starting date can be discussed. The salary is competitive and includes generous social security benefits. The successful candidate will be based at Brussels and, in addition to data analysis, should be willing to contribute to the service tasks expected of Ph.D.-holding physicists in the CMS collaboration. Frequent travel to CERN and conferences is expected.

Review of applications will begin immediately and will continue until the position is filled. Applicants should send their curriculum vitae, a list of publications indicating their personal contributions and a short statement of research interests and areas of expertise, all in pdf format, to Prof. Freya Blekman (freya.blekman@vub.ac.be).

Also please arrange for three letters of reference to be sent directly to the same email address, with subject line CMS Postdoc.

Prof. Jorgen D'Hondt (jodhondt@vub.ac.be) or Prof. Freya Blekman can be contacted to obtain more information and for informal inquiries.