

Postdoc positions in IceCube

The Inter-University Institute for High Energies, IIHE(ULB–VUB) (<http://w3.iihe.ac.be/>) invites applications for two **postdoc positions in astroparticle physics**.

The IIHE was created in 1972 at the initiative of the academic authorities of the Université Libre de Bruxelles (ULB) and the Vrije Universiteit Brussel (VUB). Its main topics of research are elementary particle and astroparticle physics.

The present research program of the IIHE is carried out at the accelerator complexes of CERN (CMS at the LHC and OPERA at the CNGS) and DESY (H1 at HERA) as well as at the AMANDA/IceCube neutrino observatory installed at the South-Pole. In each experiment the IIHE has taken important responsibilities in the preparation of the experiments (design and construction of particle detectors) as well as in the data analysis. Research is also carried out in the domain of instrumentation for medical imaging (Crystal Clear Collaboration). The IIHE has also a major role in the deployment of GRID computing in Belgium. In the future, the group will focus on CMS and IceCube and R&D programs for future experiments.

The candidates are expected to reinforce the IceCube team of the IIHE (<http://w3.iihe.ac.be/icecube/>).

The Brussels IceCube group is active in the following topics: indirect search for Dark Matter signals, search for point sources of high energy neutrinos, search for tau neutrinos, optimization for low energy (10GeV-1TeV) neutrinos with DeepCore.

Applicants should have a Ph. D. in physics. Each position is for 2 years, and will be funded by the IAP Fundamental Interactions network (<http://www.f-i.be/>).

The selected candidates will be formally attached to either the ULB(www.ulb.ac.be) or the VUB(www.vub.ac.be).

Interested candidates should apply by e-mail to Catherine De Clercq(Catherine.de.clercq@vub.ac.be) and Daniel Bertrand(daniel.bertrand@ulb.ac.be), directors of the IIHE. The positions will stay open until adequate candidates have been found.

The documents to be sent (in English) are:

- letter of motivation
- CV
- List of publications
- 3 reference letters

More information can be obtained from C. De Clercq and D. Bertrand.