

FULL-TIME FACULTY POSITION IN EXPERIMENTAL ASTROPARTICLE PHYSICS

Field: SCIENCES

Discipline: Experimental Astroparticle Physics

Faculty of Sciences

Physics Department

The Physics Department of the Université Libre de Bruxelles (ULB) invites applications for a full time academic position in experimental astroparticle physics, starting in October 2016.

Required Qualifications:

The candidate will hold a Ph.D. in Sciences or an equivalent title.

Required Skills :

- A minimum of 4-year scientific career at the time of hiring
- Postdoctoral experience and an excellent scientific record
- A stay abroad in an academic institution other than the one in which the doctoral studies were undertaken is mandatory. This can be during or after the doctoral studies. The academic stay abroad needs to have taken place either during a full academic year or maximum 4 academic stays adding up to a 12 month period
- The candidate is expected to maintain a curriculum of bachelor and master-level teaching in addition to her/his research duties and must be motivated to excel in both aspects. For candidates not fluent in the French language (level C1), a temporary period of master-level English language teaching charges may be granted; however, the candidate is expected to be able to teach in French by the end of the third year of the appointment.

The physics department of the Université Libre de Bruxelles (ULB) seeks outstanding candidates in the field of experimental astroparticle physics.

The experimental particle and astroparticle physics group is located within the Inter-university Institute for High Energies (IIHE – ULB/VUB). This research group of 100 people has a long history at the forefront of experimental research with major contributions to detector construction and data analysis in accelerator experiments (Delphi at LEP, H1 at DESY and CMS at LHC), in astroparticles (the large-scale South Pole neutrino observatories AMANDA, IceCube, and ARA), in neutrino oscillation physics (OPERA at Gran Sasso, SoLiD at SCK-CEN), and in R&D on data acquisition systems for deployment at future accelerator and non-accelerator facilities, supported by laboratory workshop facilities and technical personnel. The experimental particle physics group maintains a close collaboration with colleagues in the ULB/VUB theory groups whose research interests include phenomenology, cosmology, astroparticle and astrophysics. More details may be found on the institute's web page: <http://www.iihe.ac.be>.

A successful candidate shall demonstrate a history of outstanding experimental or observational research and leadership in the field. Strong skills in the development of detector instrumentation are an asset. The candidate is invited to participate in the framework of the existing research projects but is also encouraged to begin new research topics.

Vacancy n° 15/A101

Applications must be received no later than 15/03/2016

Additional information at

<http://www.ulb.ac.be/emploi/academique.html>

1. ➤ Description of Position : The physics department of the Université Libre de Bruxelles (ULB) seeks outstanding candidates in the field of experimental astroparticle physics. The experimental particle and astroparticle physics group is located within the Inter-university Institute for High Energies (IIHE – ULB/VUB). This research group of 100 people has a long history at the forefront of experimental research with major contributions to detector construction and data analysis in accelerator experiments (Delphi at LEP, H1 at DESY and CMS at LHC), in astroparticles (the large-scale South Pole neutrino observatories AMANDA, IceCube, and ARA), in neutrino oscillation physics (OPERA at Gran Sasso, SoLiD at SCK-CEN), and in R&D on data acquisition systems for deployment at future accelerator and non-accelerator facilities, supported by laboratory workshop facilities and technical personnel. The experimental particle physics group maintains a close collaboration with colleagues in the ULB/VUB theory groups whose research interests include phenomenology, cosmology, astroparticle and astrophysics. More details may be found on the institute's web page: <http://www.ihe.ac.be>. A successful candidate shall demonstrate a history of outstanding experimental or observational research and leadership in the field. Strong skills in the development of detector instrumentation are an asset. The candidate is invited to participate in the framework of the existing research projects but is also encouraged to begin new research topics.

The position involves teaching (lectures and practice), research and logistic activities.

The selected candidate will develop a high level research activity in the field experimental astroparticle physics.

The successful candidate will be invited to apply for a grant from the European Research Council (ERC) and for any sources of outside funding (FNRS, Europe, Regional funds, etc...) enabling them to develop their research. The ULB Research Department will assist with applications.

- Description of Scientific and Pedagogical Objectives:

It is expected that the successful candidate will progressively take on teaching duties up to a load comparable to that of other members of the Department. This position implies full participation to lectures and practicals managed by the Department of Physics at the Bachelor, Master and postgraduate levels. Courses will be redistributed periodically among Department members.

- (courses) : To be defined later

2. Teaching duties may be reviewed periodically and are subject to modification over time.

3. More information can be obtained by contacting Prof. Serge Massar, Head of the Physics Department. Tel: 32 2 6505446 – E-mail: smassar@ulb.ac.be. Secretariat: Mrs. Sabrina Serrano Alvarez - Phone/fax : +32 2 650 55 03 – E-mail: sserrano@ulb.ac.be

4. The application file should also include the following :

- application letter
- CV, including a list of publications (cf. template downloadable at <http://www.ulb.ac.be/tools/CV-type.rtf>)
- documents attesting to 4 years of teaching and research experience
- a report of around 3500 signs on the candidate's research activities and research project, indicating how the candidate would integrate into ULB research teams
- a report of about 3500 signs on the candidate's previous teaching activities and a project describing their teaching mission during the 5 years following their appointment, that integrates, in a coherent manner, into the vision of the unit in which the candidate will be working and the educational profiles of the programmes on which the candidate will be teaching.
- a note on international projects and achievements
- please provide full names and email addresses for five referees who may be contacted by the university bodies responsible of evaluating candidate applications. We ask that you be mindful of providing a balanced gender divide between referees and ensure that they have no conflict of interest.

Candidates applying for several vacancies are required to send a separate file for each.

5. Depending on the profile of the retained candidate, recruitment will be either permanent or fixed-term (for a total of maximum five consecutive years).
6. The application file must be submitted electronically, via an e-mail addressed to the Rector of the Université Libre de Bruxelles (recteur@ulb.ac.be) and to Muriel Moser, Dean of the Faculty of Sciences (annick.gerlache@ulb.ac.be).
7. Applications must be received no later than 31/03/2016.
8. Vacancy published online on: 15/12/15
Appointment due to take effect on: 01/10/2016
9. Internal administrative data :
n° de vacance : 15/A101
University payroll position : 15-B-CCO-149 (F) (1.00 ETP)
Références COA : 14/12/15 pt. III.02