

## Postdoctoral Position at Université Libre de Bruxelles

The Department of Elementary Particle Physics at *Université Libre de Bruxelles* (ULB) invites applications for a **Postdoctoral Research Fellow in astroparticle physics within the IceCube collaboration**. The department is part of the Inter-University Institute for High Energies (IIHE). We are involved in large international collaborations in astroparticle physics – IceCube (South Pole), Pierre Auger Observatory (Argentina), RNO-G (Greenland), SKA (Australia, South Africa), and in particle physics – CMS (at the LHC), JUNO (China) and Solid (Belgium).

The IceCube group at ULB, lead by three faculty, is focused on a variety of research topics, from indirect searches of Dark Matter and neutrino astrophysics to cosmic rays with IceTop and future radio developments on the framework of the IceCube-Gen2. The successful candidate is expected to contribute and undertake a variety of activities within the group with a focus on cosmic rays analysis using the information from the surface detectors and from the in-ice detector. The research project aims at the determination of the muon component in air-showers to understand the muon deficit and/or to be able to search for photons in the PeV energy range.

**Required qualifications** for the position include: A PhD in physics obtained in the last 5 years; Experience in astroparticle physics, particle physics, and/or cosmic rays is advantageous, but it is not mandatory; Availability and ability to perform data analysis, which include technical task like programing and data quality checks.

The postdoctoral position is for 3 years with a start date of March 2024 or as per agreement. The salary is competitive and includes all social security benefits (information is available upon request). Contributions to teaching and supervision of students are possible, but they are not required. ULB is an equal opportunity employer and especially encourages diversity. Minorities in physics are strongly encouraged to apply.

**Application documents and deadline** Interested candidates are invited to apply before the 1st of February, 2024. The position will remain open until a suitable candidate is selected. Applications should be emailed to Ioana C. Mariş with the subject “Postdoc Position”. The application should include a comprehensive CV, a letter of motivation stating your interest in the field, the expected contribution to the project and the skills relevant to the completion of the project. The names and the contact information of three potential referees should be provided.

Further information about the position can be obtained from Ioana C. Mariş: [Ioana.Maris@ulb.be](mailto:Ioana.Maris@ulb.be).

**Web site:** <http://www.iihe.ac.be/~imaris>