

The Edinburgh Particle Physics Experiment (PPE) group is excited to offer up to three Postdoctoral Research Associate positions to strengthen our activities and analyse data collected by the recently upgraded LHCb experiment at CERN.

The Opportunity:

In Run 3 of the LHC, the recently upgraded LHCb experiment has already collected a larger dataset of heavy flavour decays than any previous experiment. We are looking for Postdoctoral Research Associates to work on exploitation of this dataset. The Edinburgh LHCb group a wide range of physics interests and has made substantial contributions to the study of CP violation and lifetimes in the B meson system, spectroscopy and exotic states, heavy quark production, flavour changing neutral currents, charmless b-decays, charm mixing and CP violation as well as electroweak physics. The group also holds significant detector responsibilities, including maintenance and operation of the Ring Imaging Cherenkov detectors, and in the RICH detector and the Mighty Tracker project for LHCb Upgrade II.

You will take a leading role in the group's wide physics program which encompasses, the search for CP violation in decays such as $B \rightarrow \pi \ell \ell$, b-hadron lifetimes, rare b-decays as well as CP violation in the charm sector.

You will collaborate with partners beyond the University of Edinburgh including students and staff from other universities and contacts from non-academic stakeholders. You will be encouraged to develop new links

The School of Physics and Astronomy at the University of Edinburgh is committed to encouraging equality and diversity among our workforce, and eliminating discrimination. The School strives to create a more diverse, equitable and inclusive workplace for all and we are looking to actively diversify our staff. We welcome applications from all qualified candidates and in particular encourage applications from people of colour, women, people with disabilities, LGBTQ+ people and other minority and under-represented groups. We aim to ensure that our culture and systems support flexible and family-friendly working, as evidenced by our Juno Champion and Athena SWAN Silver awards.

Your skills and attributes for success:

- Possess, or be about to obtain a PhD, in Experimental Particle Physics.
- Proven track record of performing high quality research in experimental particle physics with an emphasis on heavy flavour physics and data analysis.
- Good working knowledge of the Python and C++ programming languages.
- Ability to self-motivate and work independently.
- Ability to work as part of a team while showing leadership and initiative.

Click to view a copy of the full job description ([opens new browser tab](#))

Application information:

To apply for this position, please go to

- https://elxw.fa.em3.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1001/job/12382/?lastSelectedFacet=POSTING_DATES&mode=location&selectEdPostingDatesFacet=7

Please include your CV, a research proposal and the names of three referees.

For more information about the post and the Edinburgh LHCb group, feel free to contact William Barter <william.barter@ed.ac.uk>, Silvia Gambetta <silvia.gambetta@cern.ch>, Muheim, Franz (f.muheim@ed.ac.uk), Matthew Needham <matthew.needham@ed.ac.uk> or Mark Williams <m.williams@ed.ac.uk> and visit <https://www.ph.ed.ac.uk/particle-physics-experiment/our-activities/lhcb>.

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