



## Ph.D. STUDENTSHIPS IN EXPERIMENTAL PARTICLE PHYSICS

The Birmingham Particle Physics group is looking for candidates to join our group as fully funded PhD students in the academic year 2023/2024.

The Physics Department is one of the largest physics departments in the country with a high profile for research both in the UK and internationally, covering a wide range of topics offering exciting challenges at the leading edge of physics and astronomy.

The Particle Physics group is one of the oldest in the country and currently has around 40 academic and support staff members and 25 PhD students. Our present activities include **ATLAS** and **LHCb** at the LHC, **NA62** on the CERN SPS, and the **DUNE** future long-baseline neutrino experiment. The group has growing activities on novel detectors for **light dark matter searches** at the NEWS-G experiment and elsewhere, a strong **R&D programme on silicon detectors** for the LHC Upgrade and beyond, and for Medical Physics applications, and is heavily involved in the development of **experimental facilities at future colliders**. We have a 200 m<sup>2</sup> set of clean room facilities for silicon detector R&D and construction and maintain a significant Tier 2 site on the UK GridPP contribution to LHC world-wide distributed computing. Our members lead several high-profile physics analyses in ATLAS, NA62 and LHCb, pursue ground-breaking research in detector and electronics development, and are leaders in public engagement.

Opportunities this year include projects in:

- the ATLAS, NA62, LHCb, and DUNE experiments;
- development of silicon detectors for LHC upgrades and beyond, and medical applications;
- work towards future colliders (electron-proton/ion colliders, electron-positron and proton-proton colliders);
- novel detectors for light dark matter searches at the NEWS-G experiment.

For further information please visit:

<http://www.hep.ph.bham.ac.uk/index.php?page=exp/phdentry/index>

Informal enquiries can be made to Dr. Laura Gonella (l.gonella@bham.ac.uk).

Applications are welcome at all times. Applications submitted before 8 January 2022 will be processed in time for the first round of interviews in early 2022. Application must be submitted using the link above.

*The Physics Department holds a Silver Athena SWAN Charter Award and it is committed to promote Equality and Diversity.  
Valuing excellence, sustaining investment.*