UNIVERSITY OF BIRMINGHAM | SCHOOL OF PHYSICS AND ASTRONOMY

RESEARCH FELLOW IN DETECTOR R&D FOR HIGH ENERGY PHYSICS

The Birmingham Particle Physics group has a vacancy for a Research Fellow working on solid state detector R&D within the Birmingham Instrumentation Laboratory for Particle physics and Applications (BILPA). The BILPA laboratory is an established centre for the development of the next generation solid state detectors for future collider facilities and medical applications. Together with the high intensity irradiation line at the University of Birmingham MC40 cyclotron, it provides an excellent combination of facilities to support a growing, vibrant R&D programme. The successful applicant will play a leading role in the expansion of our strategic R&D programme providing a unique contribution to the development of full 4D tracking systems and solid-state detector technologies for extreme fluence environments.

The Particle Physics group currently has 11 academic staff, 19 post doctoral researchers and engineers, 5 support staff and over 20 research students. Our present activities include ATLAS and LHCb at the LHC, NA62 on the CERN SPS, Dark Matter searches with NEWS-G and Darkside and the DUNE future long-baseline neutrino experiment. We have a 200m^2 suite 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.

The School of Physics and Astronomy is one of the largest in the UK, with a wide-ranging research portfolio, and is consistently highly ranked for excellence in research and teaching. It takes in around 200 undergraduates per year and has over 100 academic and research staff, 120 graduate students and 35 technical support staff.

A PhD in Particle Physics and experience in the development of silicon detectors for HEP will be essential for this post. The applicant must enjoy independent research as well as working in a team and must be willing to travel and spend periods at CERN.

Potential applicants are encouraged to obtain further information about the post from:

Dr Laura Gonella
Email: laura.gonella@cern.ch

Prof. Paul Newman
p.r.newman@bham.ac.uk

To download the further details and submit an online application, please visit:
https://edzz.fa.em3.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_6001/

Reference number: **101313**
Closing date for applications: **4 May 2023**