

## **Professor in Particle Physics Instrumentation - Physics and Astronomy - 52902**

Physics and Astronomy

Location: University of Birmingham, Edgbaston, Birmingham UK

Full Time

Permanent

**Closing date: 31st January 2022**

Full time salary £42,149 - £78,265

One vacancy is available to be offered as a Grade 8 Assistant Professor, or as a Grade 9 Associate Professor for the right candidate.

(Assistant Professor full time starting salary is normally in the range £42,149 to £50,296. With potential progression once in post to £56,587 a year). (Associate Professor full time starting salary is normally in the range £51,799 to £60,022. With potential progression once in post to £78,625 a year).

### **Role Summary**

This post will be based in the School of Physics and Astronomy, as an integral part of the semiconductor instrumentation programme of the particle physics group at the University of Birmingham. The postholder will contribute to a range of research, teaching and administration at a level appropriate to the role.

The successful candidate will specifically exploit the facilities in the Birmingham Instrumentation laboratory for Particle physics and Applications (BILPA) in support of semiconductor detector R&D towards the high luminosity phase of the LHC, future particle and nuclear physics facilities and medical applications. Duties include development of future programmes in energy frontier instrumentation activities and participation in preparation of applications in support of these. The role involves close interaction (possibly including line-management) with technical and early career staff in the BILPA group, and supervision of PhD students.

The University of Birmingham is an equal opportunity employer. The School of Physics and Astronomy is an Athena SWAN Silver Award holder and JUNO Champion, welcomes people from all backgrounds and is committed to fostering an inclusive environment where diversity is at the heart of who we are. We encourage applications from all qualified applicants; those from minority groups who are under-represented in this discipline are particularly welcome.

**The post is available with immediate effect at Assistant or Associate Professor level dependent on the experience and qualifications of the successful candidate.**

Informal enquiries to Dr Laura Gonella, [l.gonella@bham.ac.uk](mailto:l.gonella@bham.ac.uk), Professor Phil Allport, [philip.patrick.allport@cern.ch](mailto:philip.patrick.allport@cern.ch), Professor Paul Newman, [p.r.newman@bham.ac.uk](mailto:p.r.newman@bham.ac.uk).

### **Skills and Experience Required:**

- Normally, a higher degree in High Energy Physics (usually PhD) or equivalent qualifications.
- Research/teaching experience and scholarship within subject specialism at a level appropriate to the role.
- A well-established international track record in design and construction of semiconductor detectors for particle physics or closely related applications with several years of experience in laboratory-based instrumentation development.
- Evidence of effective team working in particle physics collaborations.

- Evidence of collaboration with other Universities and industry.
- Experience with R&D techniques and/or construction methods of semiconductor detector systems.
- Expertise in DAQ development for particle physics instrumentation.
- Ability to identify new areas of activity.

To download the full job description and details of this position and submit an electronic application online please visit our careers website:

<https://bham.taleo.net/careersection/external/jobsearch.ftl?lang=en&portal=101430233>

Please quote Job Ref **52902** in all enquiries.