

# PhD position at the University of Sheffield (ATLAS experiment)

A position is open for an **enthusiastic PhD student** to conduct research at the energy frontier at the ATLAS experiment. The main topic is on measuring the Higgs Boson properties using the 4l decay mode with the ATLAS experiment in LHC.

Please send informal enquiries and a notification of your application to: Dr Christos Anastopoulos (c.anastopoulos@sheffield.ac.uk  
<http://www.hep.shef.ac.uk/anastopoulos/>)

You will need to hold a master (including integrated bachelor+master degrees, i.e. MSc, MPhys etc., or equivalent) in (Particle) Physics or a related discipline (Computer science, Astronomy) and should be open to work in an international environment. Applications are open now until the position is filled. The position is funded by a Royal Society Research Fellows Enhancement Award.

The main departmental web page for PhD admissions is:  
<http://www.sheffield.ac.uk/physics/postgraduate-admissions>. More information on the ATLAS group in Sheffield can be found here: [www.hep.shef.ac.uk/research/atlas/](http://www.hep.shef.ac.uk/research/atlas/)

The University of Sheffield is a founder member of the international ATLAS collaboration working on the CERN Large Hadron Collider. **The University of Sheffield ATLAS group** consists of 5 academics, 8 research associates, 1 engineer and 9 PhD students. Group members have played key roles in the successful construction, commissioning and operation of the ATLAS Semi Conductor Tracker detector. The group is also very active in the R&D and the construction of a new ATLAS inner tracker for the LHC luminosity upgrade. The main focus of the group is now physics analysis of ATLAS data. Prof. Tovey has been Physics Coordinator in 2016-17. The group also provided the ATLAS electron/photon convener and two conveners of the central ATLAS SUSY working group in recent years.

The ATLAS group is a component of the **University of Sheffield Particle Physics and Particle Astrophysics (PPPA) group**. The PPPA group also pursues an active research programme in neutrino physics (T2K, DUNE and HyperK), accelerator physics (MICE) and particle astrophysics (Advanced LIGO and LUX-ZEPLIN). In the 2014 REF, the **Physics department at Sheffield** had over 90% of its research graded as either world-leading or internationally excellent, putting it among the top 10 in the UK. Further information about the Department of Physics and Astronomy, and the Faculty of Science research facilities is available at <http://www.shef.ac.uk/physics>.