

High Energy Physics PhD Studentship in Data Intensive Science – Starting 09/2017

Exceptionally, an additional PhD studentship is now available to start in late-September 2017 at UCL's newly established Centre for Doctoral Training (CDT) in Data Intensive Science (DIS). More details about the Centre can be found at:

<http://www.hep.ucl.ac.uk/cdt-dis/index.shtml>

The CDT in DIS provides a unique opportunity for students to undertake a PhD in High Energy Physics (HEP), with a focus on data science, in both academia and industry. In the 1st year of the PhD a series of intensive courses, designed with the aid of our [partner organisations](#), will provide a strong theoretical and practical grounding in the techniques, tools and programming languages of DIS, that are commonly used in both academia and industry. This will be followed by undertaking a ground-breaking research project on a world leading HEP DIS project, such as [ATLAS](#) at the [Large Hadron Collider](#), the Proton Driven Plasma Wakefield Acceleration Experiment ([AWAKE](#)), the [LUX/LZ](#) direct dark matter experiment and the [NOvA](#) neutrino experiment, amongst others, which, as well as probing our Universe at the most fundamental level, are ideal training grounds for DIS techniques. The studentships will also involve a 6-month secondment at one of UCL's DIS [partner organisations](#), who are either power users or world leaders in DIS techniques, such as the [BBC](#), [The Economist](#), [The MET Office](#), [CERN openlab](#), [NCC Group](#), [Starcourt](#), [Lenovo](#) and [Mellanox](#), amongst others. Training will be supplemented by regular summer schools and networking events, involving key industrial and academic figures. CDT students will develop a unique DIS skillset, form key contacts and networks, work with cutting edge technologies and be equipped to become world-leading data scientists, in either academia or industry.

Details on how to apply can be found here:

http://www.hep.ucl.ac.uk/postgrad/apply_now.shtml

The UCL HEP group consists of around 80 staff and students, and provides an exciting and supportive research environment with involvement in particle phenomenology, neutrino experiments, direct Dark Matter searches, Particle Astrophysics, lepton sector experiments and accelerator R&D.

Informal enquiries can be addressed to Dr Tim Scanlon (timothy.scanlon@ucl.ac.uk). Applications will be considered until the position is filled.