

Paisley Campus
School of Computing, Engineering and Physical Sciences

Fully funded PhD Studentship in Experimental Nuclear Physics

The Nuclear Physics Research Group at the University of the West of Scotland has a fully funded STFC PhD studentship available. The PhD studentship will join a research programme studying the structure of exotic nuclei, using gamma-ray spectroscopy techniques. Our research typically involves creating the nuclei of interest using nuclear reactions in the laboratory, induced by bombarding targets with energetic beams of ions from particle accelerators. One of our main interests is the study of reflection-asymmetric nuclei, which violate reflection symmetry and have a novel pear shape. Our research is carried out at overseas particle-accelerator laboratories such as JYFL (Jyväskylä, Finland), Legnaro National Laboratory (Padova, Italy), Argonne National Laboratory (Chicago) and ISOLDE-CERN (Geneva). The PhD project will involve helping to set up and run the experiments as well as the analysis of data from one or more of the experiments. As data analysis is an important part of the project, experience of scientific computing, particularly the Linux OS, or an aptitude for computing would be an advantage.

The University of the West of Scotland is one of the founding members of SUPA, the Scottish Universities Physics Alliance, which was the first research-pooling initiative in Scotland. SUPA has a Graduate School, which offers a range of PhD level lecture courses and training, as well as various networking and collaboration opportunities.

The studentship will start on 1st October 2018. The funding will cover tuition fees and will provide a standard research-council stipend of approximately £14.5k per year. Applicants should have, or expect to be awarded, a first-class or upper second-class honours degree in Physics. As much of our research is carried out abroad, applicants should have a willingness to travel. The closing date for applications is Monday 10th September 2018.

The Paisley Campus of the University of the West of Scotland. Paisley is located around 10 miles south-west of Glasgow, with excellent travel links to Glasgow (~10 minutes by train to Glasgow Central station) and to the scenic regions of Scotland (e.g. ~25 minutes by car to Loch Lomond). Glasgow International Airport is also located in Paisley.

Further information

For further information, please contact **Professor John F. Smith** by email to John.F.Smith@uws.ac.uk or by telephone to 0141 848 3652. We welcome informal inquiries.

Application forms can be found on the University of the West of Scotland web pages at <https://www.uws.ac.uk/study/research-degrees/admissions-application/postgraduate-research-application-guide/>

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the Scottish Universities Physics Alliance.
More information is available at <http://supa.ac.uk/>

