



JOB DESCRIPTION

Job Title:	Postdoctoral Research Associate in Neutrino Physics
Department / Unit:	Physics
Job type	Research
Grade:	7
Accountable to:	Dr Asher Kaboth
Accountable for:	N/A
Purpose of the Post	
<p>The post holder will help lead new analyses of T2K near detector data for oscillation analyses. They will develop new samples both from existing data and from the upgrade of the near detector. They will develop the appropriate systematic uncertainties for the data and carry out the analyses.</p> <p>The post holder will also contribute to ongoing operations of the experiment and development of the analysis software environments.</p> <p>They will also contribute to the research life of the group through collaboration with postgraduate students, other research associates, and academics.</p>	
Key Tasks	
<ul style="list-style-type: none"> • To develop leading analyses that constrain systematic uncertainties for long baseline oscillation experiments • To contribute to the operation and software development of the analysis frameworks of T2K • To analyse data and interpret any results obtained • To ensure the validity and reliability of data at all times • To maintain accurate and complete records of all findings • To produce and document the results of such studies • To write reports for submission to research sponsors • To present findings to colleagues and at conferences • To draft and contribute to publications for submission to refereed journals • To contribute to bids for research grants 	
<ul style="list-style-type: none"> • To provide guidance to staff and students • To attend relevant workshops and conferences as necessary • To take part in the supervision of postgraduate students • To take initiatives in the planning of research • To promote the reputation of the Group, the Department and the College 	

Other Duties

- To undertake appropriate administration tasks
- To attend relevant meetings
- To undertake any necessary training and/or development
- To undertake specific safety responsibilities relevant to individual roles, as set out in the College procedures
- Maintain safe workplace practice and procedures in accordance with the requirements of Health and Safety legislation
- Maintain an up to date knowledge of relevant statutory Health and Safety legislation and recommendations and attend safety training as required
- To observe and comply with all College policies and regulations

The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the College. The post holder will be expected to undertake other duties as appropriate and as requested by their manager.

The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.

Internal and external relationships

The following list is not exhaustive but the post holder will be required to liaise with:

Dr Asher Kaboth
Dr Luke Pickering