A two-year position (with a possible extension to three years) is available for a postdoctoral researcher in theory of quantum transport in strongly interacting semiconducting systems.

The candidate will work as part of a larger team funded with EPSRC program grant entitled "Non-Ergodic Quantum Manipulation" (EP/R029075/1 ) headed by Professor Sir Michael Pepper at UCL as well as researchers in experimental groups from Royal Holloway (RHUL) and University of Cambridge. The project will explore ways of decoupling the charged carriers from energy loss mechanisms which has potential applications in quantum technologies.

A successful candidate, who would work under the management of Professors Igor Lerner and Mike Gunn in a close collaboration with experimental groups in UCL, RHUL and Cambridge, must hold a PhD in theoretical physics or applied maths with a proven track record in theory of quantum transport and/or strongly correlated electron systems. Preference will be given to candidates with relevant research experience as demonstrated by publications in major journals and presentations at international conferences.

The salary falls within the range £30,395 to £39,609 per annum depending on skills and experience.

Our University actively supports equality, diversity and inclusion and encourages applications from all sections of society from the UK, Europe and across the globe.

The position expects to start in September 2019 or as early as possible after that. A formal online application will become possible by mid-June. Meanwhile, informal enquiries from interested candidates should be sent (accompanied by a current CV and publication list) to Igor Lerner and Mike Gunn.