

University College London: Department of Chemistry – PhD Studentship

Supervisor	Prof Richard Catlow (UCL)
Co-Supervisor	Prof Tom Keal (STFC< Daresbury Laboratory)
Programme of Study	PhD in Chemistry
Application Deadline	Sept 1st 2023
Project Title	Computational Study of the Electronic Structure of High Temperature Superconductors
Project Description	The project will use state-of-the-art computational techniques employing quantum mechanical/molecular mechanical (QM/MM) techniques to model and predict the structures, energies and properties of charge carriers in oxide high temperature superconductors. The project involves a collaboration between UCL Department of Chemistry and the Science and Technology Facilities Council (STFC) Daresbury Laboratory. The student will be trained in modern electronic structure techniques and the use of high performance computing technology.
Start Date	1 st October 2023
Subject Areas	Chemistry , materials science, physics
Duration	36 months
Source of Funding	University College London/STFC
Number of Awards	1
Amount of Funding	The student will be paid the standard stipend for a London based student and fees for a UK student
Eligibility	This studentship is open to Home Candidates. <i>University College London is committed to supporting and promoting equality and diversity and to creating an inclusive environment for all.</i>
Academic Criteria	Candidates should hold or expect to gain a first class degree or a good 2.1 and/or an appropriate Master’s level qualification (or their equivalent).
Contact for further information	Prof R. Catlow (c.r.a.catlow@ucl.ac.uk)
How to apply	Candidates in the first instance should send a cv to Prof R. Catlow