

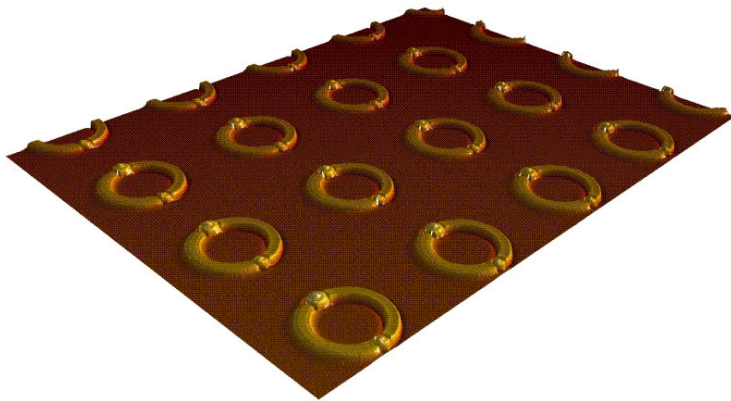
PhD Scholarship

Non-Linear and Quantum Metamaterials

Applications are invited for a PhD studentship on a project to investigate novel metamaterials based on magnetic and superconducting materials.

Motivated by the promise for ground-breaking science and superior device applications, a rich research field on metamaterials has developed in recent years. The aim of this project is to take the next step and investigate structures containing non-linear and quantum-coherent materials. In particular we will combine microwave and magneto-optical metamaterial structures with low-loss magnetic and superconducting materials, to realise controllable frequency responses, strong controllable non-linearities, and the potential of quantum properties.

We offer an international atmosphere in a lively, interdisciplinary research environment which is part of an active collaboration (www.metamaterials.org.uk) between the School of Physics and Astronomy and the Schools of Mathematics, Electronics and Computer Sciences, and the Opto-electronics Research Centre.



Part of an array of 15,000 SQUID “meta-molecules”

This four-year PhD studentship is supported by a Mayflower Scholarship in the School of Physics and Astronomy of the University of Southampton, providing full support of fees and a tax-free bursary of £13,590 per year. This scholarship is available only to United Kingdom and European Union citizens. Applicants should have, or be about to obtain, a first class or good 2:1 honours degree in Physics, or equivalent. Successful applicants are expected to engage in experimental research on metamaterials and also to assist in the School’s teaching programmes, acquiring a combination of research and generic skills that are highly valued both in academic research and in industrial environments.

For on-line applications follow the appropriate links on www.soton.ac.uk/postgraduate/ or contact Ms Kim Lange (PhD@phys.soton.ac.uk). For further information related to the project contact Prof. Peter de Groot (degroot@soton.ac.uk).

Rolling deadline