Electron Microscopy of Nanomaterials  
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A fully-funded 3.5 year PhD studentship in the Electron Microscopy of Nanomaterials is available at the University of Warwick. The studentship will be associated with the new EPSRC programme grant, ADEPT (Advanced Devices by Electroplating) [1]. The programme will use electrodeposition to structure semiconductors for device applications including thermoelectrics, phase change memory and IR sensors on a micro and nano-scale, and involves research groups in physics, chemistry and electronic engineering in the Universities of Southampton, Warwick and Nottingham. Working at Warwick, you will join a cohort of four students appointed at the same time in Southampton in 2017, with further students starting in 2018. These will work closely with the team of 7 academic investigators and 10 postdoctoral researchers in this highly interdisciplinary and challenging project.

The successful applicant will be based in Physics at the University of Warwick within the group of Dr. Richard Beanland. The project will involve the application of a range of advanced electron microscopy and spectroscopic analysis techniques including atomic resolution STEM imaging and electron energy loss spectroscopy to investigate the structural, chemical and optical properties of the unique nanostructured materials produced within the project.

Informal enquiries may be directed to Dr. Richard Beanland or email r.beanland@warwick.ac.uk. This 3.5 year studentship is available for UK or outstanding EU students.

The student will be enrolled on the Materials Physics Doctorate scheme ([go.warwick.ac.uk/MPDOC](go.warwick.ac.uk/MPDOC)). This gives access to a tailored research degree to help you exploit our own outstanding materials growth, fabrication, characterisation and computational capabilities, and those at central facilities. A broad education in Materials Physics is provided through dedicated modules under the Midlands Physics Alliance Graduate School, and external courses.