

Funded PhD positions available in the Advanced Processor Technologies Group, University of Manchester

We are pleased to announce a minimum of 15 funded PhD positions as part of a new Centre for Doctoral Training in Computer Science, the first of its kind in the UK (<http://www.cs.manchester.ac.uk/phd/programmes/cdt/>). These scholarships pay all tuition fees and a stipend award for 4 years.

In addition, the university has announced the President's Doctoral Scholar (PDS) Award. PDS awards are open to the most outstanding students from across the UK and around the world. These offer funding plus an additional £1000 enhancement to the stipend/living allowance. <http://www.mdc.manchester.ac.uk/funding/pdsaward/>

The University of Manchester is one of the UK's top research-led universities boasting a proud record of excellence in research. It can lay claim to 25 Nobel Prize winners amongst its current and former staff and students, including 4 Nobel laureates, who are currently members of its staff. The University has a long and distinguished record in the fields of Computer Architecture, Computer Systems and High-Performance Parallel Computing. A number of groundbreaking developments have taken place in Manchester including the world's first stored program computer, the invention of virtual memory, and the building of the first practical dataflow computer. The School of Computer Science was ranked first in England as measured by research strength in the 2008 Research Assessment Exercise.

The Advanced Processor Technologies (APT) group has a wide range of activities related to Computer Architecture and Systems research. APT continues to influence industry with commercialisation examples such as the ICL Goldrush Database server, Amulet processors (Low-power architectures) bought by ARM Ltd., Transitive Corporation (Virtualization and Binary Translation) bought by IBM and Silistix Ltd (Networks-on-Chip).

These exciting funded PhD opportunities cover the research areas of the Advanced Processor Technologies Group (<http://apt.cs.man.ac.uk/>)

Examples of current research projects follow:

- SpiNNaker: a universal Spiking Neural Network architecture

<http://apt.cs.man.ac.uk/projects/SpiNNaker/>

- Research in Many-cores (Software and Hardware)

<http://www.teraflux.eu>

<http://apt.cs.man.ac.uk/projects/TM>

- TEAK A novel self-timed synthesis system

<http://apt.cs.man.ac.uk/projects/teak/>- GALAXY: Globally asynchronous, locally synchronous interface for complex digital system integration.

<http://apt.cs.man.ac.uk/projects/galaxy/>

- iTLS: Intelligent run-time parallelization in managed virtual environments (e.g. Java Virtual Machines).

<http://apt.cs.man.ac.uk/projects/iTLS>

Deadline for applications:

- President's Doctoral Scholar: 18/Jan/2012

No restrictions on citizenship.

- Centre for Doctoral Training: As early as possible (no later than 31/

Funded positions require EU citizenship. PhD applications are evaluated constantly and the first batch of applicants have already been interviewed.

General information about PhD studies at Manchester and how to apply can be found at <http://www.cs.manchester.ac.uk/phd/>