

Education & Training Bulletin

MARCH
2007

Hello, and welcome to the YGN Education & Training e-Bulletin, this month we are taking a look at **Lancaster University**.

The Engineering Department at Lancaster University integrates specialisms such as electronic, mechanical, systems and Nuclear Engineering into one academic department within the Faculty of Science and Technology. The Engineering Department has many initiatives in both research and teaching and cooperates closely with other expert groups in renewable energy and control.



Much of Lancaster's nuclear engineering research is based around radiation detection & measurement with complementary interests in medical radiotherapy, neutron spectrometry, including applications in propulsion, counter terrorism, electronics reliability and decommissioning.



These research activities rely on extensive funding and cooperation from industry (including BAE SYSTEMS (Submarines), BAE SYSTEMS (Air Systems), British Nuclear Group, Nexia Solutions and React Engineering), along with the UK Research Councils and the European Union. There are usually a number of doctoral studentships available for PhD study in the Department at Lancaster and we collaborate closely with the universities of Liverpool, Cambridge, Surrey, UCLan and Manchester, amongst others.

In respect of teaching, Lancaster has a track record in pioneering nuclear-based provision for the needs of industry and students in the 21st century. At postgraduate level, there are Masters courses in Safety Engineering and Decommissioning & Environmental Clean-up. The former encompasses specialist areas in Nuclear and Aerospace. Both Masters courses are provided in part-time industry-based form; thus bringing together students from a broad cross-section of safety-critical industries in a way that is somewhat unique. These courses are taught in Lancaster and in Plymouth. Coursework and dissertations from this course has tackled a diverse range of current issues in the nuclear field, including the siting of new nuclear power plants in the UK and the decommissioning of Russian submarines.



The Decommissioning course has been successful in attracting scholarships from the Nuclear Decommissioning Authority (NDA) for candidates from Small and Medium-sized Enterprises (SMEs). As a result of these activities the Engineering Department received a National Teaching Prize from the Royal Academy of Engineering in 2005. Individual modules on these courses are available as stand-alone CPD provision and, in some cases, via the NTEC initiative.

At the undergraduate level, Lancaster has recently launched a new degree scheme in Nuclear Engineering. This course leads to an MEng qualification after four years and has been designed and conceived to deliver specific nuclear expertise for the challenges of future careers in power generation, medical, defence, fusion and decommissioning. This course will draw on its first intake in October 2007.

To find out more about Education and Training opportunities at Lancaster please contact **m.joyce@lancaster.ac.uk** or visit the website at **http://www.engineering.lancs.ac.uk**

Ed. Lancaster University has worked hard to maintain an impressive array of industry and academic links and continues to play a leading role in UK nuclear science and engineering education. The introduction of an up-date and integrated MEng course shows evidence of a strong foundation and a progressive outlook.

QUESTIONS / COMMENTS?

Contact the YGN E&T Representative Stephen at:
stephen.leclere@britishnucleargroup.com

Is there anything you would like to see in the e-Bulletin? Or do you know of an initiative that should be mentioned? Again Contact Stephen;
stephen.leclere@britishnucleargroup.com