

Nuclear Education & Research in UK Universities

Undergraduate and Foundation Degrees

Many undergraduate engineering and physics degrees (BEng, MEng, BSc, MPhys, MSci) have nuclear options, experiments and projects which could contribute up to 30% of the final degree mark. Indeed, for an undergraduate programme to be accredited by the Institute of Physics it must meet requirements for nuclear physics coverage as specified in the IOP's *Core of Physics*. The word "nuclear" is not in the degree title. The following are the only degrees offered in the UK below Masters level with "nuclear" in the title (except "with nuclear astrophysics" degrees at University of Surrey).

Lancaster University:

Undergraduate MEng in "Nuclear Engineering"

http://www.engineering.lancs.ac.uk/undergraduate/nuclear_engineering.asp

Contact: Undergraduate Admissions Tutor: Stephen Quayle Tel: +44 (0) 1524 593095 Email: s.quayle@lancaster.ac.uk

University of Central Lancashire

Undergraduate FdSc (Foundation Degree, 2 years full-time, 3 years part-time)

FdSc in "Nuclear Decommissioning"

<http://www.uclan.ac.uk/old/courses/factsheets/science/pasm/8680.pdf>

Contact: Dr Colin Boxall, Email: cboxall@uclan.ac.uk

Telephone: +44 1772 893540

FdSc in "Nuclear Related Technology - Science & Processes"

FdSc in "Nuclear Related Technology - Commissioning & Maintenance"

FdSc in "Nuclear Related Technology - Instrumentation & Control"

FdSc in "HVAC Energy Engineering"

FdSc in "Nuclear Project Leadership" (From 2009)

Contact: Dr Jonathan Francis, Email: jfrancis1@uclan.ac.uk

Telephone: +44 1772 893229

Imperial College, London:

Undergraduate MEng (4 year course, from 2009)

MEng in "Mechanical and Nuclear Engineering"

MEng in "Chemical and Nuclear Engineering"

MEng in "Materials and Nuclear Engineering"

<http://www.imperial.ac.uk/>

Postgraduate Nuclear Education

Please consult via the URLs for the details of the various syllabuses.

Nuclear Technology Education Consortium (NTEC)

(a consortium of 11 institutions: Universities of Birmingham, Lancaster, Leeds, Liverpool, Manchester and Sheffield, City University, London, HMS Sultan, Imperial College London, UHI Millennium Institute & Westlakes Research Institute)

MSc in “Nuclear Science & Technology”

PG Dip. in “Nuclear Science & Technology”

PG Cert. in “Nuclear Science & Technology”

(Modules of which are also made available to Industry for CPD Training)

<http://www.ntec.ac.uk/>

Contact: Mel Young Tel: +44 (0) 161 275 4575

Email: mel.young@manchester.ac.uk

University of Birmingham:

MSc “Physics & Technology of Nuclear Reactors”

(Parts of which are also made available to Industry for CPD Training)

<http://www.ph.bham.ac.uk/prospective/postgrad/pgptnr.htm>

Contact: Dr Paul I Norman, Tel: +44 (0) 121 414 4660

Email: p.i.norman@bham.ac.uk

MSc “Medical and Radiation Physics”

<http://www.ph.bham.ac.uk/prospective/postgrad/pgmrp.htm>

Contact: Dr Michael Wilson, Tel: +44 (0) 121 414 4654/4681.

Email: michael.wilson@uhb.nhs.uk

Postgraduate Diploma(PGDip)/Certificate (PGCert) in “Radioactive Waste Management and Decommissioning”

Contact: Dr Monty Charles, Tel: +44 (0) 121 414 3483

Email: m.w.charles@bham.ac.uk

University of Glasgow

Short course in “Radiation Protection”

Contact: Tel: +44 (0) 141 330 4471

Email: m.bryden@admin.gla.ac.uk

Lancaster University:

MSc in “Safety Engineering”

<http://www.engineering.lancs.ac.uk/home/index.asp>

Contact: Dr Malcolm Joyce, Tel: +44 (0) 1524 593812

Email: m.joyce@lancaster.ac.uk

MSc in “Decommissioning and Environmental Clean-up”

<http://www.engineering.lancs.ac.uk/postgraduate/courses.asp?ID=33>

Contact: Dr Malcolm Joyce, Tel: +44 (0) 1524 593812

Email: m.joyce@lancaster.ac.uk

University of Central Lancashire

PGCert in “Environmental Governance & Information”

Contact: Mr Rick Wylie, Email: rick.wylie@westlakes.ac.uk

Telephone: +44 1946 514149

PGCert in “English for Nuclear Decommissioning”

<http://www.uclan.ac.uk/old/courses/factsheets/class/lang/9637.pdf>

Contact: Mr Valeriy Smolienko, Email: vsmolienko@uclan.ac.uk

Telephone: +44 1772 893147

University of Liverpool:

MSc in “Radiometrics”

<http://ns.ph.liv.ac.uk/radiometrics/msc.html>

Contact: Professor P. J. Nolan, Tel: +44 (0) 151 794 3377

Email: pjn@ns.ph.liv.ac.uk

University of Manchester:

MSc “Nuclear and Radiation Physics”

<http://www.nuclear.manchester.ac.uk/postgraduate/>

Contact: Prof. Jon Billowes Tel: +44 (0) 161 275 4104

Email: j.billowes@manchester.ac.uk

MSc “Environmental Management & Technology” (subject to approval)

<http://www.ceas.manchester.ac.uk/studyhere/postgraduatetaught/programmes/mscenvironmentalmanagementandtechnology/>

Contact: Mrs Jean Rigby Tel: +44 (0) 161 306 3981

Email: jean.rigby@manchester.ac.uk

See also NTEC

University of Surrey:

MSc in “Radiation and Environmental Protection”

MSc in “Radiation Detection & Instrumentation”

<http://www.ph.surrey.ac.uk/msc/>

Contact: MSc Admissions Administrator Tel: +44 (0)1483 686842

Email: use on-line contact form at <http://www.ph.surrey.ac.uk/msc/enquiry>

Scottish Universities Environmental Research Centre

(Previously Scottish Universities Research & Reactor Centre)

Postgraduate teaching in environmental geochemistry and radioactivity, isotope geology and isotopes in biomedical and ecological processes.

<http://www.physics.gla.ac.uk>

<http://nuclear.gla.ac.uk/>

University of Strathclyde

*Certificate of Professional Development in
Radiation Protection*

<http://www.cll.strath.ac.uk/cpd/scosh/pdrp.htm>

Contact: Tel: +44(0) 141 548 4147

E-mail: scosh@strath.ac.uk

University College London

MSc in "Radiation Physics (Medical Applications)"

<http://www.ucl.ac.uk/prospective-students/gr-degrees-2006/engineering-sciences/medical-physics-and-bioengineering/taught/radiation-physics/>

Nuclear Department, HMS Sultan

A range of nuclear related courses are available to civilian personnel

<http://www.flagship-training.co.uk/site/flagship/our-capabilities/training-solutions/nuclear-training/nuclear-home&xpm18=84>

Contact: Tel: +44 (0) 2392 543111

Email: enquiries@nuclear-training.co.uk

The Joint Department of Physics, The Royal Marsden NHS Trust & Institute of Cancer Research together with Department of Medical Engineering & Physics, King's College Hospital NHS Trust.

Radiation Protection Training Course

http://www.icr.ac.uk/research/research_sections/physics/2326.shtml

Contact: Mr Stephen Evans Te;: +44 (0)20 7808 2505/1

steve.evans@rmh.nhs.uk

See also papers produced by the Health and Safety Executive which give some further detail about UK University courses involving some nuclear material:

<http://www.hse.gov.uk/nuclear/ukeduc.doc>

<http://www.hse.gov.uk/nuclear/education03.pdf>

Postgraduate Nuclear Research

Nuclear Engineering Doctorate (4 year research degree)

EPSRC-funded programme led by the University of Manchester in partnership with Imperial College London, with the Universities of Bristol, Leeds, Sheffield and Strathclyde.

www.manchester.ac.uk/EngD