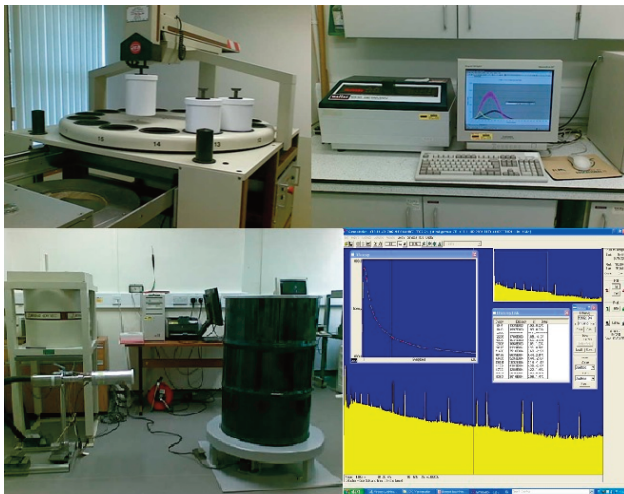


## **Radiation Detection and Measurement**

**16 - 20 March 2020**

The course aims to train scientists and engineers for future employment in the nuclear power industry sector in research, applications, operation, engineering or decommissioning roles. Secondary career paths might involve radiological protection, nuclear medicine and health physics.



### **The main objectives of the course are:**

- Demonstrate an understanding of the principles of radiation detection and measurement and nuclear instruments
- Gaining knowledge and skills on radiation detection, counting and spectrometry including shielding and health physics, as well as in radioactive sample preparation
- Demonstrate an ability to conduct experiments and understanding how to acquire, identify, quantify and assess radionuclides and report radiation data, uncertainty and detection limits

To register for a place visit:

**[www.imperial.ac.uk/cpd/radiation](http://www.imperial.ac.uk/cpd/radiation)**

**Duration: 3-5 days**

**Fees: 3 days: £900**

**5 days: £1500**

Academic rates available

### **Who Should Attend:**

The course is designed for both mid-career and new graduates in scientific and engineering subjects who wish to enter the nuclear industry or pursue nuclear research.

### **Benefits of Attending:**

Participants will be able to gain knowledge about nature of radioactivity, interaction of various types of radiation with matter and how these interactions are used to detect and measure them, different types of radiation instruments and their calibrations, statistics of radioactivity counting and estimation and propagation of uncertainties, practical experience on using gamma spectrometry systems, liquid scintillation counters, neutron counters, handling radioactive samples and radiation survey and monitoring.

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