



**NATIONAL COLLEGE
FOR NUCLEAR**

NORTHERN HUB

FOUNDATION DEGREE IN ENGINEERING

DESIGNED BY INDUSTRY, FOR INDUSTRY

**ELECTRICAL POWER SYSTEMS
& INFRASTRUCTURE**

Lakes College
West Cumbria



PROGRAMME OVERVIEW

The Foundation Degree in Electrical Power Systems & Infrastructure provides a higher education engineering experience. The course has been designed to provide a combination of extensive practical work supported by academic studies with a unique experience within the National College for Nuclear Northern Hub. The aim of the programme is to provide work ready technicians and engineers with the relevant skills, knowledge and behaviours to work within a highly technical environment.

WHO SHOULD APPLY?

The programme is designed for individuals who may be looking for employment or already employed within the power industry. It provides a thorough background in power engineering enabling the student to select a specific pathway relevant to their employment aspirations and/or local employment demand. The course has also been designed in conjunction with the nuclear degree apprenticeship standards.

WHAT AND HOW WILL I STUDY?

TOPIC AREAS INCLUDE

- Engineering Mathematics
- Energy Generation
- Electrical & Mechanical Science
- Control Systems & Instrumentation
- Power Systems
- Nuclear Science & the Nuclear Industry
- Fluid & Thermodynamics
- Power Transmission & Distribution

ELECTRICAL POWER SYSTEMS & INFRASTRUCTURE

- STUDY THESE AREAS

- Electrical Machines
- Sub-stations, Transformers & Circuit Breakers
- Overhead Lines & Cables
- Power Systems, Operation & Control
- Power System Protection

In addition the students will have the opportunity to work within the brand new National College for Nuclear Northern Hub, with state of the art equipment preparing for real work experiences and real industrial scenarios. A large proportion of the student activity will be with project work.



WHAT QUALIFICATIONS WILL I OBTAIN?

On the successful completion of the course, a Foundation Degree in Engineering (FdEng) will be awarded in Electrical Power Systems & Infrastructure.

The awarding body is the University of Cumbria and accredited by the National College for Nuclear.

PRE-REQUISITES

A suitable level 3 qualification(s) equivalent to 48 UCAS points or a Level 3 National College for Nuclear Access to Nuclear Engineering and Science.

DURATION

2 years full time or 3 years part time (block release delivery). Program will commence January 2018.



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