

**University of Derby Job Description**

# **Job Summary**

## **Job Title**

Associate Lecturer in Nuclear Engineering

## **College/Department**

College of Science and Engineering

## **Location**

Markeaton Street, Derby, DE22 3AW

Nuclear Skills Academy, Infinity Park, Derby, DE24 9FU

## **Job Reference Number**

0290-24

## **Salary**

£40.45 per hour

## **Reports To**

Nuclear Engineering Programme Leader

## **Line Management Responsibility**

No

# **Job Description and Person Specification**

## **Role Summary**

The University of Derby, in collaboration with Rolls-Royce Submarines Ltd, operates the esteemed Nuclear Skills Academy (NSA), aimed at nurturing future nuclear experts. As an Associate Lecturer, you will play a pivotal role in this initiative, focusing on delivering exceptional teaching in Mechanical, Electrical, and Nuclear Engineering and Engineering Mathematics.

## **Principal Accountabilities**

### Learning/Teaching

1. Deliver engaging and effective learning experiences in Mechanical (topics including material science, thermodynamics, fluid mechanics), Electrical, Nuclear Engineering and Engineering Mathematics at undergraduate level.
2. Utilise a range of teaching techniques to inspire and engage students on-campus.
3. Contribute to the development and enhancement of module/programme design, ensuring alignment with university quality standards.
4. Participate in assessment processes, including setting, marking, and providing constructive feedback to students.

### Other

1. Provide pastoral care and support to students as a personal tutor.
2. Assist in marketing and student recruitment activities as required.
3. Develop external links to support student placements, outreach initiatives, and future collaborations.
4. Fulfil administrative duties related to teaching, meetings, timetabling, and assessment.
5. Adhere to University policies and procedures.

## **Person Specification**

### **Essential Criteria**

#### **Qualifications**

* Good Honours Degree in Mechanical/Materials/Electrical/Nuclear Engineering or relevant discipline
* Master’s Degree in a relevant discipline

#### **Experience**

* Experience or expertise in Mechanical, Materials, Electrical, and Nuclear Engineering, either from academia or industry

#### **Skills, knowledge & abilities**

* Proficiency in using digital tools to support teaching and research activities
* Excellent communication skills and ability to convey complex ideas effectively, both written and verbal
* Ability to work independently and collaboratively within a team
* Commitment to continuous professional development and high standards of teaching

#### **Business requirements**

* Willingness and flexibility to travel and work between University and external sites in a cost effective and timely manner for teaching purposes
* Enhanced DBS check

### **Desirable Criteria**

#### **Qualifications**

* PhD in a relevant discipline

#### **Skills, knowledge and abilities**

* Good knowledge of MATLAB
* Good knowledge of engineering mathematics
* Good knowledge of basics nuclear physics
* Understanding of various reactor physics software (e.g. MCNP, WIMS, Serpent, etc.).
* Practical knowledge of Sensors and Embedded systems

# **Benefits**

As well as competitive pay scales, we offer generous holiday entitlement. We also offer opportunities for further salary progression based on performance, and the opportunity to join a contributory pension scheme.

For more information on the benefits of working at the University of Derby go to [the Benefit pages of our website.](https://jobs.derby.ac.uk/display.aspx?id=1912&pid=0&tabId=230)

# **Our People**

The University of Derby is committed to promoting equality, diversity, and inclusion. However you identify, we actively celebrate the knowledge, experience and talents each person brings. Our students come from a wide range of backgrounds; therefore we are particularly interested to hear from applicants who will help our leaders and teams be more reflective of our student population.