



## Apply here

### Start date

November 2024

### Duration

6 - 12 months

### Languages

Good spoken and written English levels are required (B2 onwards)

### Location

#### Cardiff, UK

The lively Welsh capital is packed with cultural diversity with activities and events to suit all tastes. Home to the **Principality Millennium Stadium** which hosts regular sports events, **St David's Shopping Centre, Cardiff Bay** and much more, this vibrant city with its buzzing nightlife is a favourite among students!

### Are you eligible?

Are you a registered student or graduated in the past 2 years?

Or

Are you eligible to participate in the Erasmus+ programme?

### Benefits

See website for details of all ESPA benefits. For all internships over 6 months, additional benefits will be paid. Details available at interview.

## Role

This is a fantastic opportunity for an electrical engineering student to gain valuable work experience in a growing and dynamic company which has offices in Bristol and Cardiff. Mentored throughout by the Power Systems Team you will be involved in a wide range of projects and studies and analyses, experience the use of industry leading power systems, electromagnetic transient (EMT) and finite element software, prepare commercial and technical proposals and technical reports. You will further develop the technical knowledge you have gained throughout your studies to solve a wide range of challenging problems and communicate with clients, articulating complex issues in a concise manner in both written and oral form. This is an experience not to be missed and will be an invaluable addition to your CV and future career prospects.

## Tasks

- Power Systems modelling, load flow and fault level studies
- Harmonic analysis and quality of supply issues.
- Protection system design and setting calculation.
- Generator modelling, dynamic studies and stability analysis.
- Specification of key electrical equipment.
- HV Earthing system and lightning protection system design.
- EMC/EMF assessment.
- Scripting and automation

## Desired Skills

- Currently studying a Bachelor or Master's degree in electrical, industrial or mechanical engineering or equivalent.
- Demonstrate a proactive and self-motivated approach to work.
- Ability to develop and apply analytical thinking and problem-solving skills to establish the accuracy and relevance of the information.

## The Host Company

The host company is an independent power systems consultancy firm offering tailored solutions to meet the challenges and economic pressures present in the power industry. Their team of consultants is trusted by a wealth of clients to provide highly responsive and specialist solutions from project conception to completion. They pride themselves for their high delivery standards across sectors that include industrial and manufacturing plant owners, network operators, independent connection providers, as well as renewable and conventional generators, covering low to extra high voltage systems.