



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

Certificate of sponsorship and accommodation costs are paid for on your behalf as a minimum. A monthly stipend is paid to you. Full details available at interview.

Role

Do you want to kickstart your career in electrical engineering? Doing your internship at a growing power systems engineering consultancy allows you to work on a variety of projects and tackle complex issues, mentored by power system experts. You will work on studies and analyses, gain experience with industry-leading power systems, electromagnetic transient (EMT), and finite element software, and prepare commercial and technical proposals as well as technical reports. You will advance broad yet specialised technical knowledge and develop sales engineering skills, articulating complex issues to clients across the power sector, including large industrial and manufacturing companies, EPC contractors, network operators, and energy developers, among others. All skills learned will be invaluable for future career prospects and a great experience to add to your CV.

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/recently finished a Bachelor/Master's degree in electrical, industrial or mechanical engineering or equivalent.
- Knowledge of power systems modeling techniques
- Fundamental understanding of power systems terminology, such as "three-phase system."

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.



ESPA Power Systems Engineer Internship (PSE2409)
