



### Apply here

#### Start date

Flexible within the next three months

#### Duration

6 months

#### Languages

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

#### Location

##### Belfast Area, Northern Ireland

Belfast is the capital city of Northern Ireland and over recent years has seen a period of significant regeneration and growth. The birthplace of the Titanic, this vibrant city has a buzzing nightlife and social scene with many cultural events taking place throughout the year. Close to beautiful countryside and the famous Giant's Causeway, Belfast has something to suit all tastes.

#### Are you eligible?

Are you a registered student?  
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 enthusiastic electronics student, to gain practical experience with this leader in the manufacture of state-of-the-art medical training equipment. Mentored throughout, you will focus on taking their products to the next level, designing and implementing electronic components and sensors to communicate with their innovate training apps. Given early responsibility, this is a great chance for you to showcase your skills in this unique niche industry, providing a great addition to your CV and a real boost to career aspirations.

## Tasks

- Take a leading role in development of smart electrical technology that will communicate with the host company's current Android and/or IOS mobile applications
- Develop new functionality within new task trainer products to make them smart
- Design of Printed Circuit Boards (PCB)
- Focus on hardware design but may also work on firmware/software or work with dedicated software engineers
- Carry out detailed electronic circuit design, including simulation and design verification testing of the new design
- Development of firmware
- Suggest and implement improvements to the host company's current app products
- Help with planning and scoping releases
- Ensure good coding practices and CE marking

## Desired Skills

- Studying for a degree in Electronics Engineering, Mechatronics or similar
- Interest in Internet of Things development
- Software Development experience would be nice but not essential
- Ability to solve problems and show attention to detail
- Highly motivated and keen to make an impact
- Excellent communication skills
- Capacity to plan and execute task lists independently
- Positive and determined attitude

## The Host Company

This host was established in 2003 by two Anaesthetists at Queens University Hospital in Belfast, who identified a need for more realistic training aids for medical procedures. They now lead the medical simulation market, designing and manufacturing a range of realistic and durable training manikins, aimed at developing skills in emergency airway management of patients. They are now seeking talented individuals to take their products to the next level.