



Apply here

Start date

August onwards

Duration

6 – 12 months

Languages

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

Location

Belfast, 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 including [10 Game of Thrones filming](#) locations 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 a talented electronic engineer to experience a rewarding, practical internship within this innovative manufacturer of remote wireless machine health monitoring systems. Mentored throughout, you will help and support a small team of engineers to meet their goals through designing, building and testing prototypes of their new wireless sensing products. This role will suit a real hands-on engineering student, keen to take responsibility and gain invaluable knowledge and experience, in this increasingly important sector.

Tasks

- Work as part of a small team of engineers in the development of new products.
- Research new electronic components. Designing Schematic and PCB
- Build prototypes by hand soldering or work with third party PCB manufacturers and prepare build pack (BOM and CAD)
- Design testing of electronics using power supplies, function generators and oscilloscopes.
- Report writing of any testing completed

Personal Skills

- Studying for, or recently completed, a Bachelor's or Master's degree in Electronic Engineering or similar
- Understanding of design, test, and control of analogue and digital circuits, including power supplies
- Self-motivated, result-oriented, good teamwork and communication skills
- Good problem solving and leadership attributes
- Good understanding of RF and wireless connectivity (Wi-Fi, BLE, cellular)
- Basic firmware skills (Arduino) or basic software skills Python or MATLAB for data analysis.

The Host Company

Founded in 2016, this innovative host is the product of the founders 50 years combined expertise, in new product development in sensing systems, which has provided a unique opportunity to bring to market wireless sensing technologies suitable for application in heavy duty industrial environments. Today, the host is a market leading provider of wireless health condition monitoring systems and continues to deliver new solutions to prevent machine failure, boasting a market reach that spans every corner of the globe. Their customer base speaks for itself, citing household names across a vast array of industries, including automotive, pharmaceutical, mining, oil and gas, renewable energies, waste recycling, and food and beverage. Their systems are deployed and gather data from machines all around the world, enabling predictive maintenance, reducing costly downtime, and optimising process efficiencies. Expanding rapidly, they are seeking talented individuals to join them on their exciting journey.