# 6 Month Electronics Engineer Internship

**IONUL2706**

**PLEASE READ CAREFULLY BEFORE CONTINUING.**

ESPA or European Student Placement Agency is a recruitment agency whose goal is to find high quality internships for European students and recent graduates in the UK. We work closely with our host companies to ensure the positions provide the candidates with a great experience, both professional and personal.

**REQUIREMENTS:** ESPA vacancies are open to all EU passport holders able to travel to the UK for an educational work placement, without the need for visa documents. You have to still be a student or have graduated in the last 12 months. Any student who is unsure of their visa situation should check with their university before applying.

**BENEFITS:** All ESPA's services are **free** for students and alumni. The benefits are:

1) Paid Accommodation.
2) Paid Utility Bills (electricity, gas, water and council tax) + Internet Access
3) Commuter travel to work (accommodation will be found within an acceptable commuting distance from the workplace, if that requires more than a sensible walk then a bus/train ticket will be provided).

This will be sourced and managed on your behalf by ESPA. **These benefits have an approximate value of 700€-1000€ per month (depending on location).**

There is no salary over and above the benefits offered, unless specifically stated.

**To know more, please visit:** www.espauk.com

## The Host Company

The host company is a spin-out from the Institute for Materials Research of the University of Leeds, who aim to be a world leader in their field. They specialise in high performance, extreme environment piezoelectric devices and materials, offering a range of sensors, actuators and transducer devices based on its novel piezoelectric materials, with applications in areas such as condition monitoring and flow measurement in demanding environments.

## Role

The company is currently looking for an Ultrasonic Device Development Engineer who will be a key contributor to a developing design and production team, responsible for devising and implementing new high temperature piezoelectric transducers. You will work closely with Materials and Electro-mechanical Engineers and Technical / Operational Directors to lead the development of client demands in to prototype designs. You will also work with the technical and business team, to achieve the collective commercial goals of the company.

## Duration

6 months

## Location

Huddersfield, is a colorful market town showcasing an impressive legacy that includes award-winning Victorian architecture, the ancient Castle Hill monument and musical excellence. Today it has evolved into an exciting hotbed of food and festivals.

## Languages

Fluent in written and spoken English (B2/C1).

## Start date

September 2016

## Tasks

- Design and deploy ultrasonic devices (sensors, transducers) for demanding environment applications, with a thorough understanding of and experience in ultrasonic transducer physics, assembly - including electronic matching network - interconnects and packaging.
- Ability to contribute to modelling and simulating acoustic/piezoelectric devices, for example, using Matlab, beam tracing tools, and FEA.
- Organize knowledge of manufacturing techniques, assembly, and applicability to designs.
- Contribute to directing a developing team in construction of ultrasonic tools.
- Communicate with suppliers to resolve issues and ensure product requirements are met and organize knowledge of manufacturing techniques, assembly, and applicability to designs
- Responsible and accountable for carrying out the requirements and contributing to the development and maintenance of the company's quality assurance and health and safety requirements.
- Contribute to electronic tools strategy and contribute to schedules for hardware and software activities

## Personal Skills

- Background in Science or Engineering, with knowledge/interest in ultrasound physics, signal processing, transducer design, modelling and assembly.
- Knowledge/interest in materials selection ; electrical matching and interconnects, packaging ; CAD design and beam tracing and/or FEA - particularly in ultrasound / NDT;
- Ability to manage own time and meet deadline and to perform independently
- Potential to contribute to new device ideas through proven analytical thinking.
- Flexible, and able to work in a small team as well as independently, in a dynamic small-company environment with minimal direction.
- Skilled at one or more programming language (C++, Matlab, LabVIEW etc).
- Proven skills in data management and presentation.
- Demonstrable desire to contribute to hands-on approach to device assembly, test and evaluation.

## How to apply

**STEP 1)** Please, register with us at http://www.espauk.com/students/register-with-us

**STEP 2)** Please, send an email to apply@espauk.com with the reference code **IONUL2706** attaching your CV as a pdf file. A cover letter is always helpful.

## Are you eligible?

ESPA vacancies are open to all EU passport holders able to travel to the UK for an educational work placement, without the need for visa documents.