



# 10-12 Month 3D Image Analysis and Software Development Internship

**(AXIIA3011)**

## **PLEASE READ CAREFULLY BEFORE CONTINUING.**

European Student Placement Agency, Ltd (ESPA UK) is a recruitment agency whose goal is to find high quality internships for European students 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 be a registered student and/or have Erasmus+ status to be eligible for our internships. Any student who is unsure of their situation should check with their university before applying. Non-EU students can also apply if they are studying in the EU and can get an Erasmus+ grant/status for the entire length of the internship.

**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](http://www.espauk.com)

## Extra benefits

As most of European grants are no longer than 6 months the host company has agreed to offer also a payment in the second half of the internship (months 7 to the end) in addition to the regular benefits.

## The Host Company

This company's main purpose is to offer a unique service that develops **specialist software to process traditional 2D radiography images** using accurate anatomical knowledge to create patient specific visualisations for clinicians. This innovative concept can be utilised by integrating these visualisations with the service of rapid prototyping, also known commonly as **3D printing**.

The company's main initial focus will be in **creating 3D prints for orthopaedic surgeons** to use as pre-operative planning aids. Enabling the surgeon to pre-bend and prepare all necessary surgical equipment to treat complex trauma injuries well in advance of stepping foot into the operating theatre.

## Role

This start-up company is looking for a bright student or recent graduate that is able to use and manage the website/platform and support the interaction between their clients' needs and the potential of their 3D software.

They offer a friendly, dynamic and inclusive working environment with like-minded, talented and passionate individuals. This is an exciting time for the company and presents candidates will have an opportunity to join a rapidly expanding organisation involved in ground-breaking technology that has the potential to dramatically impact on surgical technics.

The ideal candidate will be an enthusiastic and self-motivated student, or recent graduate, who is looking for a challenging and rewarding opportunity in which they can put their knowledge into practice.

## Duration

10-12 months.

## Location

Belfast is the capital and largest city of Northern Ireland. Very dynamic city with a population of 300 000.

## Languages

A good level in written and spoken English is required (B2 onwards).

## Start date

Flexible.

## Tasks

- Development of image processing scripts (2D & 3D);
- Front and back end development and support of the company's website/platform;
- Develop and maintain software to convert 2D images to 3D images within a cloud based visualization environment;
- Creation and maintenance of technical specifications and reports for a web-based software application;
- Creation and execution of test scripts for web-based software application including RDBMS testing.

## Personal Skills

### Essential:

- Development experience in web and backend technologies (e.g. **JavaScript, Python**);
- Strong problem solving skills;
- Strong written English language skills;
- Strong interpersonal skills.

### Desirable:

- Some knowledge of relational database design and querying (SQL);
- Interest in the medical field and knowledge of medical procedures and devices;
- Knowledge of cloud hosting, version control and automation/DevOps;

## 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](mailto:apply@espauk.com) with the reference code **AXIIA3011** attaching your CV as a pdf file. A cover letter is always helpful.