



6-12 Month Software Engineering Internship (DROSE0303)

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 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.

All interns coming to the UK for an internship experience must have work place accident insurance which covers them for 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

Extra benefits

As most of European grants are no longer than 6 months the host company might offer a grant replacement during the second half of the internship (months 7 to the end) in addition to the regular benefits.

The Host Company

The company operates in the Unmanned Aerial Vehicles (aka drones) market, with an emphasis on applying deep learning in mobile robots, both ground and aerial.

With an intense focus on research & development, the company uses its extensive skills and knowledge to solve complex problems including localization-mapping, navigation and object recognition for autonomous robots. The work ethos is one of expertise and creativity, striving to scale new heights by deploying cutting-edge technology to develop innovative solutions.

Advancements in this new technology continue their acceleration and as such the company has met a variety of challenges across a range of sectors and industries.

Role

The host company is looking for a **Software Engineer** with a genuine interest in neural networks and robotics to help develop innovative and pragmatic solutions whilst also driving the industry forward. The intern will collaborate on design, software development and flight testing as well as **work across the full spectrum of disciplines expected in this industry**. In addition, candidates will be involved in development of prototype applications in order to explore their future potential.

The intern will have an innate talent for analytical thinking, a high degree of persistence and initiative.

Location

The company is headquartered in Bristol. The internship will be placed in **Bristol**.

Duration

6-12 months.

Start date

Flexible.

Languages

Good spoken and written English is required, **B2 level minimum**.

Tasks

- Assist in designing and training neural network models for various tasks like image recognition, natural language processing, localization and mapping
- Assist robotic software development using ROS and **C++** (real time software on the robot)
- Robotic system simulation (Unity3D)
- Maintaining and improving the continuous integration and the deployment process.

Personal Skills

Essential:

- Computer Science, IT related degree or scientific/numerate degree
- High proficiency in **C++** programming skills
- Python/numpy/scipy or MATLAB
- Comfortable working across a team with people of different skills.
- Ability to work in a self-directed way.
- Ability to pick up and evaluate new technologies.
- Conduct code reviews and inspections.

Desirable:

- Knowledge of ROS, control systems and alike
- Other branches of AI or machine learning, reinforcement learning, etc.
- Exposure to electronics, 3D printing, physics and physics simulations
- GUI programming (Qt, Java, .NET or similar)

How to apply

STEP 1) Please, register with us at <http://www.espauk.com/students/student-registration/>

STEP 2) Please, log in to your account in <http://www.espauk.com/students/student-application/> and then click on the button **APPLY** next to the vacancy name.

If you have any problems applying for this vacancy please email us at: apply@espauk.com and in the subject please indicate the Name + the code of the vacancy you have issues to apply to.