



## Apply here

### Start date

April 2022

### Duration

6 months

### Languages

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

### Location

Bristol, England

Bristol is the largest city in the South West of England. It has a strong reputation for creativity, digital innovation and social enterprise, and is the home of Oscar-winning Wallace and Gromit and urban artist Banksy. Offering a lively nightlife, bars and restaurants aplenty, musical diversity and many historical sites, in 2017, The Times newspaper voted it 'Best Place to Live in the UK'.

### 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 role for an enthusiastic computer science or electronics student, to gain practical experience within this innovative, class leading company. Mentored throughout, you will be involved in the research, design, development and support of the host software and runtime support for the tools they provide. This covers both the existing and next generation device. For the former, close interaction with their in-house software teams is required. For the latter, close interaction with our silicon design team is required, during the research, design, verification, bring up and characterisation phases. Development is carried out in C, C++ and assembler, along with use of various scripting languages to build and test the product. The tools run on Linux, Windows and Mac hosts in a command-line environment

## Tasks

- Research and develop tools and components in C and C++
- Develop target runtime software in C and assembler
- Evaluate results and provide tests for these components using a variety of high-level languages
- Evaluate results and test on simulation environments and on hardware
- Incorporate the above into our product build CI/CD infrastructure
- Support customers in using the software as required

## Desired Skills

- A degree or close to completing a degree in software engineering, embedded systems, electrical and electronic engineering or similar
- Familiar with C and C++ programming languages
- An appreciation for researching and developing software for embedded, resource-constrained systems
- An understanding of digital systems and microprocessors
- Familiarity with version control systems such as Git

## The Host Company

The host company is a market leader in the supply of voice and music processing and control ICs (integrated circuits), to customers including Harmon, Sony, JVC and JBL. They are currently focusing on the development of their next generation and most comprehensive Voice User Interface (VUI) controller solutions for Internet of Things (IoT) devices. Their far field voice interfaces are designed to be integrated seamlessly into any environment and have already been qualified by Amazon for use with Alexa. With substantial financial backing, this company is set to become one of the major players in the audio field.