

RECRUITMENT PACK



This document includes the following information:

- Job Description
- Person Specification
- Additional information

Making an application:

Please complete the short on-line application form, which includes some standard questions, and attach the following documents. (Shortlisting is undertaken by a panel after the closing date on the basis of information provided.)

- a. A covering letter - explaining why you are interested in this post, and giving examples to demonstrate how you meet the requirements of the job as outlined in the Person Specification.
 - b. A curriculum vitae - giving full details of your qualifications and experience to date.
- Links to Guidance Notes and Frequently Asked Questions can be found on the Search Results page. These pages will open in a new window.
 - **We recommend that you take a copy of this recruitment pack to help with your preparation.**

A commitment to sustaining an inclusive and diverse community is one of the University's Core Values and we are keen to address any imbalances in our workforce.

The University of Essex is proud to be part of the Disability Confident scheme and is committed to supporting diversity and equality, representative of our inclusive community. As part of our commitment to this scheme any candidate who has a disability and meets all the essential criteria for the role will be offered an interview. We also work in partnership with national disability organisation **AccessAble** who provide detailed online access guides to many of our campus buildings and facilities which you may find useful.

Please note: We are only accepting on-line applications for this post. However, if you have a disability that makes it difficult for you to provide us with information in this way, please contact the Resourcing Team (01206 876559) for help.

Closing Date: 12 June 2019

Interviews are planned for: TBC



JOB DESCRIPTION – Job ref REQ02709

Job Title:	Embedded Systems Engineer (KTP Associate)
Contract:	Full-time. Fixed term for 14 months (+3 potentially). The position is fixed term due to being part of a Government funded innovation programme, however there may be potential to continue in employment with the company partner following the completion of the KTP.
Hours:	37.5 hours per week (standard working week for host company)
Salary:	£36,000 - £42,000 per annum
Department/School/Section:	School of Computer Science and Electronic Engineering (CSEE)
Responsible to:	Head of School of Computer Science and Electronic Engineering
Responsible to on a day to day basis:	Academic Supervisor, University of Essex Company Supervisor, Profusion PLC
Location:	The post will be based at: Profusion PLC Aviation Way Southend On Sea Essex SS2 6UN

Purpose of the Job:

The University of Essex in partnership with Profusion plc offers an exciting opportunity to develop Networked Pro Audio control software. The software will control Digital Signal Processor (DSP) based products such as active loudspeakers, microphones and effects gear.

This post is fixed term for 14 months with possible 3 month extension and is based at the Profusion plc offices in Southend, Essex.

Duties of the Post:

The main duties of the post will include:

- Develop embedded code to provide a webserver based user interface that provides highly responsive controls to networks of any size.
- Working with international partners in the Pro Audio business to integrate key library components to create a complete network control system.
- Prepare operational documentation and provide subsequent support and training for users.
- Assessing feasibility of all technical road maps, liaising with Academic team.
- Any other duties as may be assigned from time to time by the University of Essex Head of Department or their nominee.



These duties are a guide to the work that the post holder will initially be required to undertake. They may be changed from time to time to meet changing circumstances.

May 2019

PERSON SPECIFICATION

JOB TITLE: Data Scientist (KTP Associate)	POST REF: REQ02709
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Qualifications /Training

	Essential	Desirable
▪ A degree in Computer Science or Electronic Engineering or Physics	X	
▪ MSc or higher qualification in Computer Science, Electronic Engineering or Physics		X

Experience/Knowledge

	Essential	Desirable
▪ Embedded systems programming	X	
▪ Experience with hardware and software design/development	X	
▪ Java, C and C++ programming	X	
▪ Knowledge of internet protocols plus SPI, I2C, USB, UART and I2S	X	
▪ Familiarity with ARM processors and RTOS	X	
▪ Familiarity with AES67 and AES70		X
▪ Familiarity with GIT, MAKE, NodeJS and MIDI		X
▪ DSP programming experience		X
▪ Interest in audio		X

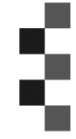
Skills/Abilities

	Essential	Desirable
▪ Effective communication skills to be able to work collaboratively in a small team	X	
▪ Ability to work to deadlines with strong time management skills	X	
▪ Good command of written and spoken English	X	
▪ Ability to work independently and as part of a team; dynamic and self-motivated	X	
▪ Proactive and committed to the project	X	

Other

	Essential	Desirable
▪ An understanding of, and commitment to, equality and diversity	X	
▪ Can meet the requirements of UK 'right to work' legislation*	X	
▪ Will satisfy the UK basic security check	X	

* The University has a responsibility under the Asylum, Immigration and Nationality Act 2006 to ensure that all employees are eligible to work in the UK. Prior to commencing employment, the successful candidate will be asked to provide documentary evidence to this effect. Please note that the University may not be able to issue a Tier 2 Certificate of Sponsorship for this post. For further



information about UK immigration requirements please follow this link
<https://www.gov.uk/government/organisations/uk-visas-and-immigration>

May 2019

WORKING AT THE UNIVERSITY OF ESSEX

The University of Essex is proud to be:

A leading academic institution with an international reputation for the quality of its research and teaching and an international community that is committed to equality and diversity.

Knowledge Transfer Partnerships (KTP)

A Knowledge Transfer Partnership (KTP) is a three-way project between a company, a university and a graduate (known as an Associate), which enables the transfer of knowledge, technology and skills to which the company currently has no access. Supported by the university, KTP Associates manage strategic projects within the company.

A KTP can help graduates to enhance their career prospects by providing them with an opportunity to manage a challenging project, which allows them to use their degree, and is central to an organisation's strategic development and long term growth.

Whilst the Associate leads the KTP project, they are supported by experienced staff from the company and university. They are also assigned a KTP Adviser, who supports them in maintaining good working relationships within the partnership and in planning their professional development in broad terms.

For more information, visit <http://ktp.innovateuk.org>.

Profusion PLC

For over 25 years, Profusion has been the design engineer's distributor of choice for ICs and specialty devices used in pro audio, MI audio, and consumer audio products. Profusion represents semiconductor companies from around the World supplying components to Audio Manufacturers across Europe. We are a small professional team knowledgeable about the audio market and starting to develop new products for the professional audio market. Profusion are located close to London Southend Airport.

For more information, please visit <http://www.profusionplc.com/aboutus.php>.

SCHOOL OF COMPUTER SCIENCE AND ELECTRONIC ENGINEERING

The School of Computer Science and Electronic Engineering (CSEE) comprises 1,200 students from more than 75 countries, supported by 170 academic, research and support staff. The school is conducting world-leading research in areas such as text analytics, evolutionary computation, brain-computer interfacing, intelligent inhabited environments and financial forecasting, and boasts the largest robotics research group of its kind in the UK.

For more information visit <https://www.essex.ac.uk/csee/>

General Information

Informal enquiries may be made to the project Academic Supervisor, Dr Amit Kumar Singh (a.k.singh@essex.ac.uk) or Robert Walker, KTP Manager (tel: 01206 874076 email: r.walker@essex.ac.uk). However, applications must be made online.

KTP is funded by a UK Government grant and this appointment carries no expectation of extension beyond the end of the fixed-term contract.

In principle, previous KTP Associates are not eligible to apply. There are some circumstances where a previous Associate can apply for a new KTP. Please check with your previous KTP Adviser for information.

Please note that the role holder will be based at Profusion PLC located in Southend On Sea, Essex, but may be expected to travel to the University of Essex Colchester Campus from time to time.

People Supporting Strategy

Please find a link to the People Supporting Strategy below:

<https://www.essex.ac.uk/-/media/documents/directories/human-resources/people-supporting-strategy.pdf>

Benefits

As an employer we offer a range of benefits and a commitment to career development and equal opportunities in an environment that both reflects and creates a rich interaction of people, disciplines and ideas.

- Pension scheme
- Generous holiday entitlement
- Competitive salaries
- Training and development
- Family friendly policies
- On campus childcare facilities, for more information visit www.wivenhoeparkdaynursery.co.uk
- Relocation support package for qualifying staff
- Interest free season ticket loan
- Range of optional salary exchange tax benefits (pension and bicycle schemes)

This document is produced by:

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May 2019