

RECRUITMENT PACK

This document includes the following information:

- Job Description
 - Person Specification
 - Additional information
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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 [DisabledGo](#) 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: 08 October 2018

Interviews are planned for: Mid-late October 2018 – date to be confirmed

JOB DESCRIPTION – Job ref REQ01828

Job Title:	Motion Control Software Developer (KTP Associate)
Contract:	Full-time. Fixed term for 30 months. 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:	40 hours per week (standard working week for host company)
Salary:	£34,000 - £37,000 per annum
Department/School/Section:	School of Computer Science and Electronic Engineering
Responsible to:	Professor Anthony Vickers Head of School of Computer Science and Electronic Engineering
Responsible to on a day to day basis:	Dr Vishwanathan Mohan, Academic Supervisor, University of Essex and Alex White, Company Supervisor, Blackman & White Ltd
Location:	This post will be based at: Blackman & White Ltd The Street Industrial Estate Heybridge Street Heybridge Maldon CM9 4XB

Purpose of the Job:

The University of Essex in partnership with Blackman & White Ltd offers an exciting opportunity to a graduate to develop state-of-the-art automated motion control on a new, patented cutting machine and programming functionality for Blackman & White's current range of machines.

Duties of the Post:

The main duties of the post will include:

- Conduct assessment of current user interface system and analysis of company needs.
- Design the development framework for an intuitive interface platform with capacity for iterative/remote future development.
- Understand and contribute to the evolution of a long term strategic business plan including milestone deadlines.
- Apply current leading embedded systems techniques to the development and testing of a user interface system.
- Integration with existing model range and evaluation of compatibility/functionality.
- Iteration of user interface system and development for new product lines.
- Document development programme and conduct training exercises to embed new knowledge among colleagues.
- Participation in promotion and marketing of the new system to existing customers and potential new markets; this may include presentations or attendances at trade shows, etc.
- Presentation of the innovative methods employed in association with the Academic Supervisory team; participation in the preparation of one or more academic journal article(s) and potential attendance at one or more conference(s).

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.

September 2018

PERSON SPECIFICATION

JOB TITLE: Motion Control Software Developer (KTP Associate)	POST REF: REQ01828
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Qualifications /Training

	Essential	Desirable
▪ BSc in Computer Science or Electronic Engineering.	x	
▪ MSc or PhD in Controls, Embedded Systems, Real-time Embedded Systems or a related discipline.		x

Experience/Knowledge

	Essential	Desirable
▪ Knowledge and experience of C, C++, Java, Visual Studio.	x	
▪ Knowledge and experience of GUI design.	x	
▪ Experience of working in Human Computer Interfacing.	x	
▪ Knowledge and experience of embedded systems, microcontrollers and network security.	x	
▪ Knowledge and experience of motion control systems and firmware.	x	
▪ Experience of laboratory testing and analysis.	x	
▪ Experience of working with real-time systems.	x	
▪ Experience in working with neural networks and machine learning.		x

Skills/Abilities

	Essential	Desirable
▪ Effective communication and interpersonal skills.	x	
▪ Excellent time management and organisational skills and the ability to work to tight deadlines.	x	
▪ Excellent command of written and spoken English.	x	
▪ Ability to work independently and as part of a team.	x	
▪ Proactive and committed to the project.	x	
▪ Ability to interface with people with commercial interests and from varied technical backgrounds.	x	
▪ Project management and leadership experience.		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	

* 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. The University may be able to offer Tier 2 Sponsorship for this role. For further information about UK immigration requirements please follow this link <https://www.gov.uk/government/organisations/uk-visas-and-immigration>

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>.

About Blackman & White Ltd

Founded in 1964 by engineers Les White and Jack Blackman, Blackman & White (BW) remains a family-owned company.

Based in Essex, England – in a town where sailing is the local sport – our roots are in sail making and the maritime industry. Yet during the last five decades we have worked with clients from industries as diverse as aerospace and fashion.

We're proud of our heritage which has seen us create a unique range of high quality machinery with longevity; pioneer multi-tool laser cutters within the textile world and; launch specialist cutting tools for the filtration and graphics industries. We're always looking for new ways to showcase our cutting expertise.

For more information, visit <https://blackmanandwhite.com/>.

About the School of Computer Science and Electronic Engineering, University of Essex

The School of Computer Science and Electronic Engineering 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 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://www1.essex.ac.uk/csee/about/default.aspx>.

General Information

Informal enquiries may be made to the project Academic Supervisor, Dr Vishwanathan Mohan (email: vishwanathan.mohan@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 Blackman & White Ltd, located in Heybridge, 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.
<http://www.essex.ac.uk/hr/policies/docs/people-oct15.pdf>

Benefits

Our staff and students are members of the University for life. We believe a person's potential is not simply defined by grades or backgrounds, but by a willingness to question, to collaborate and to push at the edges of knowledge and their own potential.

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
- Childcare vouchers
- Relocation package for qualifying staff
- Interest free season ticket loan
- Range of optional salary exchange tax benefits (pension, childcare and bicycle schemes)

No smoking policy

The University has a no smoking policy

September 2018

