



# OPPORTUNITY

## Embedded Systems Engineer - KTP Associate

**Reference:** 0026-23

**Salary:** £37,000 per annum

**Contract Type:** Fixed Term (11 months)

**Basis:** Full Time

# Job description

This 11-month project takes the form of a Knowledge Transfer Partnership (KTP) (<http://www.ktponline.org.uk/>), which provides you with practical and formal training and the availability of support from experienced mentors at R L Capital Ltd., Aston University and Innovate UK.

## Job Purpose:

RL Capital Ltd. has partnered with Aston University on this KTP project to develop novel, real-time wheel alignment fault detection system (AutoAlign for cars & vans) that will deliver accurate fault detection of wheel misalignment, enabling drivers and fleet operators to reduce power consumption and minimise air pollution caused by excess exhaust emissions and tyre wear.

The role offers an exciting opportunity to work as part of a team with RL Capital Ltd. and Aston to develop the knowledge that will underpin the company's future developments with good prospects for career development in the R L Capital team. This role will advance the current AutoAlign hardware and firmware work to implement prototypes for build, test, debug, and validation.

You will also develop a broad set of skills in project management, stakeholder management, working on a strategic project in an innovative business, and carrying out cutting-edge research.

## Main duties and responsibilities

- ▶ Work with the Project Advisory Group.
- ▶ To work closely with RLC staff to embed skills through collaborative/ agile working, and present project progress across the company.
- ▶ To lead the development of wireless sensor embedded system hardware and software for in situ wheel mis-alignment detection system (AutoAlign for cars & vans).
- ▶ To manage financial aspects of the project including liaising with Aston to prepare finance statements for approval and seek approval for & forecast expenditure throughout the project.
- ▶ To drive the project, and take responsibility for delivering the proposed plan of work in collaboration with the academic and company teams.
- ▶ Disseminate project progress across the company and within Aston's research environment, recording developments in a technical library and in appropriate reports as necessary.

## Additional responsibilities

- ▶ Engage in continuous personal and professional development in line with the demands of the role, including undertaking relevant training and development activities to develop themselves and support the development of others.
- ▶ Ensure and promote the personal health, safety and wellbeing of staff and students.
- ▶ Carry out duties in a way which promotes fairness in all matters and which engenders trust.
- ▶ Promote equality of opportunity and support diversity and inclusion as well as working to support the University's environmental sustainability agenda and practices.

# Person specification

	Essential	Method of assessment
<b>Education and qualifications</b>	<ul style="list-style-type: none"> <li>• Educated to PhD level with a first degree in Electronic Engineering, Mechatronics Engineering, Computer Science, or related degree, with a PhD in Mechatronics, Embedded Systems or related field.</li> </ul>	Application form
<b>Experience</b>	<ul style="list-style-type: none"> <li>• Experience in embedded systems and wireless sensors .</li> <li>• The ideal candidate will also have knowledge and/or experience in developing hardware and software for embedded systems.</li> <li>• Experience in working with RTC, BLE, IMU and Arduino IDE.</li> </ul>	Application form and interview
<b>Aptitude and skills</b>	<ul style="list-style-type: none"> <li>• Knowledge/ understanding of operation of signal processing and machine learning would be of a distinct advantage.</li> <li>• Good problem-solving skills</li> <li>• Good project management skills are required with the ability to develop work plans under his/her own initiative and work to deadlines.</li> <li>• Ability to balance technical and commercial interests of the project.</li> <li>• Work as effective team member whilst also being highly self-motivated and capable of working independently.</li> <li>• Enthusiasm and maturity to take ownership of all aspects of project management.</li> <li>• Excellent interpersonal and communication skills (both written and oral).</li> </ul>	Application form and interview

	Essential	Method of assessment
	<ul style="list-style-type: none"> <li>Ability to work closely with all stakeholders.</li> </ul>	

	Desirable	Method of assessment
<b>Experience</b>	<ul style="list-style-type: none"> <li>Experience of working on complex or large-scale databases.</li> <li>Experience of working with industry.</li> </ul>	Application form and Interview
<b>Experience</b>	<ul style="list-style-type: none"> <li>Understanding of web technologies.</li> <li>Knowledge of version control, unit testing, continuous integration and code quality tools.</li> </ul>	Application form and interview



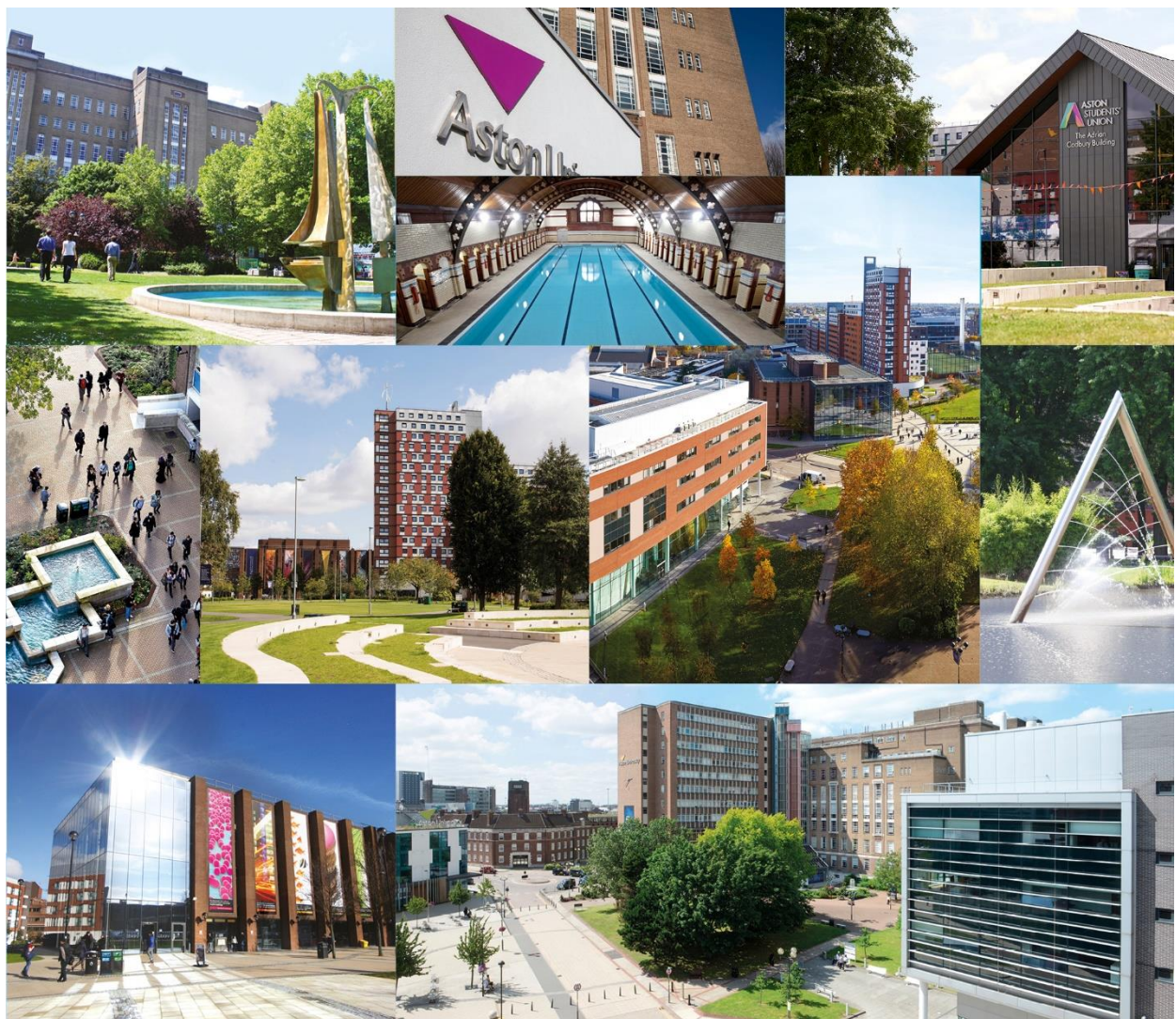
# How to apply

You can apply for this role online via our website <https://www2.aston.ac.uk/staff-public/hr/jobs>.

Applications should be submitted by 23:59 on the advertised closing date.  
All applicants must complete an application form, along with your CV.

Any CV sent direct to the Recruitment Team and Recruiting Manager will not be accepted.

If you require a manual application form then please contact the Recruitment Team via [jobs@aston.ac.uk](mailto:jobs@aston.ac.uk).



# Contact information

## Enquiries about the vacancy:

Name: Dr Yu Jia

Job Title: Senior Lecturer, Engineering and Technology

Email: [y.jia1@aston.ac.uk](mailto:y.jia1@aston.ac.uk)

## Enquiries about the application process, shortlisting or interviews:

Recruitment Team via [jobs@aston.ac.uk](mailto:jobs@aston.ac.uk) or 0121 204 4500.

# Additional information

Visit our website <https://www2.aston.ac.uk/staff-public/hr> for full details of our salary scales and benefits Aston University staff enjoy

**Salary scales:** <https://www2.aston.ac.uk/staff-public/hr/payroll-and-pensions/salary-scales/index>

**Benefits:** <https://www2.aston.ac.uk/staff-public/hr/Benefits-and-Rewards/index>

**Working in Birmingham:** <https://www2.aston.ac.uk/birmingham>

**Employment of Ex-Offenders:** Under the Rehabilitation of Offenders Act 1974, a person with a criminal record is not required to disclose any spent convictions unless the positions they applying for is listed an exception under the act.

## Eligibility to work in the UK:

### Post-Brexit transition period / EU Settlement Scheme

The post-Brexit transition period ended on 31 December 2020. If you are an EU/EEA citizen and you were a resident in the UK before 31 December 2020, you and your family members (including non-EU citizens need to apply to the EU Settlement Scheme to continue to live, work and study in the UK beyond 30 June 2021. The deadline for applying to the EU settlement scheme is 30 June 2021. You can apply via the Government webpage

<https://www.gov.uk/settled-status-eu-citizens-families>

Irish Nationals do not need to apply for settlement as they retain the right to work in the UK.

### New immigration system for EU/EEA and Swiss Nationals who were not resident in the UK before 31 December 2020

A new immigration system has been introduced for people arriving in the UK from EEA countries with effect from 1 January 2021. In addition to those who have always required a visa, EU citizens moving to the UK to work will need to get a visa in advance. You can find more information on the following website. Candidates should check their eligibility to enter or remain in the UK in advance of making any job application via the UKVI website <https://www.gov.uk/browse/visas-immigration/work-visas>. Before applying you should ensure that you meet the requirements, including meeting the English Language requirements. If you do not meet the eligibility criteria, any application for a work visa would be unsuccessful.

If you require a visa to work in the UK the most common types of visa are:

**Skilled Worker Visa**

<https://www.gov.uk/skilled-worker-visa>

**Global Talent Visa**

If you are a leader or potential leader in one of the following fields you may be eligible to apply for a Global Talent Visa:

- Academia or Research
- Arts and Culture
- Digital Technology

Please click the following link for further information and to check your eligibility for this visa.

<https://www.gov.uk/global-talent>

**Equal Opportunities:** Aston University promotes equality and diversity in all aspects of its work. We aim to ensure, through our admissions policies for students, and our staff recruitment and selection processes that we encourage applications from all groups represented in the wider community at a local, national and international level.

The University will endeavour not to discriminate unfairly or illegally, directly or indirectly, against student or potential students, staff or potential staff. This commitment applies to all functions of the University and to any stage of an individual's career.

An Equal Opportunities Monitoring Form is included within the application form. Data you provide on the Equal Opportunities Monitoring Form will be included in a general database, for statistical monitoring purposes, enabling the University to monitor the effectiveness of its Policy, Codes of Practice and Guidelines on Equal Opportunities in Employment. Individuals will not be identified by name.

**Data Protection:** Your personal data will be processed in compliance with the Data Protection Act 2018 and the General Data Protection Regulation ((EU) 2016/679) ("GDPR"). The University's Data Protection Policy and Privacy Notices, including the Job Applicant Privacy Notice can be found at <https://www2.aston.ac.uk/data-protection>. Your application will only be used to inform the selection process, unless you are successful, in which case it will form the basis of your personal record with the University which will be stored in manual and/or electronic files. Information in statistical form on present and former employees is given to appropriate outside bodies.

Full details of our terms and conditions of service and associated policies and procedures are available online at <https://www2.aston.ac.uk/staff-public/hr/policies>

**Aston University**

**Birmingham**

**B4 7ET, UK.**

**+44 (0)121 204 3000**

**aston.ac.uk**



**Where change  
gets real.**