

Candidate Brief

Data Science Researcher - KTP Research Associate

Reference: R190145

Salary: £30,000 to £35,000 per annum (depending on experience)

Contract Type: Fixed term (36 months)

Basis: Full time

Closing Date: 23.59 hours BST on Sunday 12 May 2019

Interview Date: To be confirmed

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DIFFERENT
DISTINCTIVE
ASTON



Job description

This 36 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 from Folding Space, Aston University and Innovate UK.

The Company

Folding Space is an innovative software development company with an active research and development programme, which focuses on document & record discovery, analytics and management. **Find out more by visiting:** www.foldingspace.co.uk.

The Project

Folding Space has partnered with Aston University on this new KTP project to evaluate new technologies and pioneer new developments in the field of Big Data Text Indexing of very large collections of unstructured data. This will address the pressing need across public and private sectors for comprehensive knowledge management solutions, such as GDPR compliance.

The role offers an exciting opportunity to work as part of a team with Folding Space and Aston to develop the knowledge that will underpin the company's future developments with good prospects for career development in the Folding Space team.

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

The skills developed during the course of the project will enable the successful candidate to develop a strong set of varied skills which will enhance their future career opportunities. The project includes a personal development budget which will include provisions for obtaining the Elastic Certified Engineer certification, which is highly-valued within the job market. There will also be an opportunity for training on an Infrastructure as a Service (IAAS) cloud platform e.g. Google Cloud Compute Engine.

Further details of the main duties and responsibilities of the role are detailed below.

Main Duties and Responsibilities (include but not limited to):

- ▶ Establish a Project Advisory Group to give feedback and advice on project developments.
- ▶ Review of current products and technologies used within Folding Space and their key markets.
- ▶ Review of current architecture and optimal architecture for large scale indexing.
- ▶ Evaluating the capabilities / performance of Elasticsearch on datasets.
- ▶ Design of a profiling rule language amenable for machine learning.
- ▶ Automated profiling rule derivation through adaptation of text clustering algorithms.
- ▶ Develop and deliver training for long term knowledge embedding into Folding Space.
- ▶ Prepare case studies, publications and final reports to disseminate findings.
- ▶ Manage the project, including budget, meeting schedules, stakeholder engagement and technical tasks.

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
Education and qualifications	Educated to PhD level in Computer Science, Statistics, Mathematics or equivalent.	Application form
Experience	<ul style="list-style-type: none"> • Knowledge/experience of non-standard database technologies • Experience of carrying out empirical experiments on technologies • Practical experience of statistical analysis & use of appropriate software packages such as R or SPSS • Software development and programming skills in Java and/or C# or modern object oriented programming languages e.g. Python/ Scala/ C++ 	Application form, interview and presentation
Aptitude and skills	<p>Ability to balance technical and commercial interests of the project.</p> <p>Work as an effective team member whilst also being highly self-motivated and capable of working independently.</p> <p>Enthusiasm and maturity to take ownership of all aspects of project management.</p> <p>Excellent interpersonal and communication skills (both written and oral).</p> <p>Ability to work closely with all stakeholders.</p>	Interview and presentation

	Desirable	Method of assessment
Experience	<p>Exposure to scalability issues for very large database, document indexing, dynamic optimisation and the Elasticsearch analytics platform would be a distinct advantage.</p> <p>Practical experience of machine learning algorithms</p> <p>Experience of working with industry.</p>	Application form, interview and presentation
Aptitude and skills		Interview and presentation

How to apply

You can apply for this role online via our website www.aston.ac.uk/jobs. Applications should be submitted by 23.59pm 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 recruitment@aston.ac.uk.

Contact Information

Enquiries about the vacancy:

Name: Antonio Garcia-Dominguez

Job Title: Lecturer

Email: a.garcia-dominguez@aston.ac.uk

Enquiries about the application process, shortlisting or interviews:

Recruitment Team via recruitment@aston.ac.uk or 0121 204 4500.

Additional Information

Visit our website www.aston.ac.uk/hr for full details of our salary scales and benefits Aston University staff enjoy

Salary Scales: <http://www.aston.ac.uk/staff/hr/payroll-pensions-and-benefits/salary-scales/>

Benefits: <http://www.aston.ac.uk/staff/hr/payroll-pensions-and-benefits/>

Working in Birmingham: <http://www.aston.ac.uk/birmingham/city-living/>

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: Candidates who are not citizens of the United Kingdom, or another EEA member country, should check their eligibility to enter or remain 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 standards. If you do not meet the eligibility criteria, any application for a work visa would be unsuccessful

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 Act 1998: Your personal data will be processed in compliance with the DPA and from 25 May 2018 with the GDPR. The University's Data Protection Policy and Privacy Notices, including the Job Applicant Privacy Notice can be found at <http://www.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 www.aston.ac.uk/hr

