

## 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 874588/873521/873461) for help.

Closing Date: 14 June 2018

Interviews are planned for: TBC – June 2018



**JOB DESCRIPTION – Job ref REQ01411**

<b>Job Title:</b>	Data Scientist (Video Content and Text Analysis) - KTP Associate
<b>Contract:</b>	Fixed-term, Fulltime. The position is fixed term for 30 months 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.
<b>Hours:</b>	40 hours per week (9.00am to 6.00pm with one hour's lunch break and possibility of flexible working arrangements)
<b>Salary:</b>	£28,750 - £33,000 per annum
<b>Department/School/Section:</b>	School of Computer Science and Electronic Engineering
<b>Responsible to:</b>	Professor Anthony Vickers Head of School
<b>Responsible to on a day to day basis:</b>	Dr Faiyaz Doctor and Dr Alba García, Academic Supervisors, University of Essex  Sohail Sahab, Company Supervisor, Hub Productions Limited
<b>Location:</b>	This post will be based at:  Hub Productions Limited Unit 511 Clerkenwell Workshops 31 Clerkenwell Close London EC1R 0AT

**Purpose of the Job:**

The University of Essex in partnership with Hub Productions Limited offers an exciting opportunity to a graduate to lead on a project involving the creation of an innovative SaaS based product that helps content agencies and brands to create video content and distribution strategies for marketing, based on analysis of their target audience's interests and needs, the existing content on the web and social channels, and their budget.

**Duties of the Post:**

- Investigation and implementation of video processing and summarisation techniques.
- Investigation of NLP, text analysis, web mining and machine learning techniques applied to online video context analysis and retrieval.
- Build extendable ground truth datasets to capture audience needs relating to existing online video content for analysis and modelling purposes.
- Development of a commercial software service tool for video content retrieval, analysis and visualization.
- Design and develop a tool to integrate the analysis of textual and non-textual data for the analysis on online video content.
- A prototype operational system for text based topicality analysis relating to online video content.
- Development of a video topic extraction approach based on video content and text metadata.



- Embedding technology and upskilling company staff.
- Supporting company scale up and exploitation of new technology.

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 2018**



**PERSON SPECIFICATION**

<b>JOB TITLE:</b> Data Scientist (Video Content and Text Analysis) - KTP Associate	<b>POST REF:</b> REQ01411
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**Qualifications /Training**

	<b>Essential</b>	<b>Desirable</b>
<ul style="list-style-type: none"> <li>MSc or Higher Degree in Computer Science, Data Science, Electronic Engineering or Physics.</li> </ul>	x	
<ul style="list-style-type: none"> <li>PhD Higher Degree in AI, Computer Science, Data Science, Electronic Engineering or Physics.</li> </ul>		x

**Experience/Knowledge**

	<b>Essential</b>	<b>Desirable</b>
<ul style="list-style-type: none"> <li>Experience in video processing/summerisation.</li> </ul>	x	
<ul style="list-style-type: none"> <li>Knowledge and interest in deep learning.</li> </ul>	x	
<ul style="list-style-type: none"> <li>A high level of Java or Python programming ability.</li> </ul>	x	
<ul style="list-style-type: none"> <li>Knowledge and interest of NLP, text analysis and machine learning approaches, fuzzy systems and probabilistic reasoning techniques applied to video summerisation.</li> </ul>		x
<ul style="list-style-type: none"> <li>Commercial data science experience.</li> </ul>		x

**Skills/Abilities**

	<b>Essential</b>	<b>Desirable</b>
<ul style="list-style-type: none"> <li>Effective communication skills to be able to work collaboratively in a small team.</li> </ul>	x	
<ul style="list-style-type: none"> <li>Dynamic and self-motivated.</li> </ul>	x	
<ul style="list-style-type: none"> <li>Excellent time management skills.</li> </ul>	x	
<ul style="list-style-type: none"> <li>Ability to work to deadlines.</li> </ul>	x	



▪ Good 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	

**Other**

	<b>Essential</b>	<b>Desirable</b>
▪ 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. 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>

## ADDITIONAL INFORMATION

### 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>.

The University of Essex is in the top 5 UK University for delivering the program, and also holds the current award for 'Best UK KTP Partnership' from Innovate UK.

#### **Hub Productions Limited**

Founded in 2002, Hub is a 15 strong, insight-led video strategy and video production agency. Based in London and formed by partners David Hunstone and Kate Paterson, originally Hub was created to answer the video requirements of Jaguar-Land Rover. From having one single client, we have grown into a multifaceted video agency – working in a variety of industries for a range of customers.

The breadth of capability we offer is made possible by our structure. At the core of our business is a senior management team who oversee; insight, creative, production, distribution and project management.

We are diverse bunch, with a number of the team having evolved their specialist areas not through traditional media routes. We see this as an advantage – we don't all see things the same! Creative concepts are often born out of polarising opinions but this affords us a rigorous approach, considering a range of ideas and angles, before collectively arriving at an agreed strategy.

#### **School of Computer Science and Electronic Engineering**

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 Alba García Seco de Herrera (**email:** [alba.garcia@essex.ac.uk](mailto:alba.garcia@essex.ac.uk)) or Robert Walker, KTP Manager (**tel:** 01206 874076 **email:** [r.walker@essex.ac.uk](mailto:r.walker@essex.ac.uk)). However, applications must be made online.

KTP is funded by a UK Government grant (Innovate UK) 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 Hub Production Limited located in central London, 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](http://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)

**May 2018**