

Job Related Information

This document includes information about the role for which you are applying and the information you will need to provide with your application.

1. Role Details

Vacancy reference	12423
Job title:	Research Assistant / Associate
Reports to:	Professor of Knowledge Technologies
Salary:	Ranging from £28,982 – £35,609
Terms and conditions:	Full time Research Staff
Grade	AC1 / AC2
Duration of post:	Until 30 June 2017
Working hours:	37 hours per week (full time, Monday to Friday)
Location:	The Knowledge Media Institute at The Open University
Closing date:	23 June 2016
Type of application form accepted:	Standard / Accessible version (plus covering letter)
Number of referees required:	Three
Unit recruitment contact:	Ortenz Rose

2. Summary of duties

The appointment will be made on the Academic Grade 1 or Grade 2 Salary Scales for Research Staff, ranging from £28,982 to £35,609 pa depending on qualifications and experience.

JOB DESCRIPTION

You will work on Rexplore – <http://technologies.kmi.open.ac.uk/rexplore/>, a system which leverages novel solutions in large-scale data mining, semantic technologies and visual analytics, to provide an innovative environment for exploring and making sense of scholarly data. You will be part of a high-profile research team, under the supervision of Professor Enrico Motta.

Specific Tasks:

- Integration and management of Big Data in the academic domain;
- Developing and testing the Rexplore technology as a service to be used by publishers and universities worldwide;
- Contributing to the creation of innovative algorithms for extracting information from research data and to forecast of dynamics.

RELEVANT PUBLICATIONS AND FURTHER INFORMATION

The publications below are available from <http://kmi.open.ac.uk/publications/>

- Osborne, F. and Motta, E. (2015) Klink-2: Integrating Multiple Web Sources to Generate Semantic Topic Networks, International Semantic Web Conference 2015, Bethlehem, Pennsylvania
- Osborne, F., Scavo, G. and Motta, E. (2014) Identifying diachronic topic-based research communities by clustering shared research trajectories, Extended Semantic Web Conference 2014, Crete, Greece
- Osborne, F., Scavo, G. and Motta, E. (2014) A Hybrid Semantic Approach to Building Dynamic Maps of Research Communities, EKAW 2014, Linkoping, Sweden
- Osborne, F., Motta, E. and Mulholland, P. (2013) Exploring Scholarly Data with Rexplore, International Semantic Web Conference, Sydney, Australia
- Osborne, F. and Motta, E. (2012) Mining Semantic Relations between Research Areas, International Semantic Web Conference, Boston, MA

3. Person specification

Requirements (E = Essential/ D = Desirable)

Education, qualifications and training

A Master in Computer Science or related field, or equivalent experience. Appointment as a Research Associate requires a PhD in Computer Science or related field, or 2+ years equivalent in quality of achievement.

Knowledge, work and other relevant experience

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| Essential: | <ul style="list-style-type: none">• Excellent programming skills in PHP, JavaScript, Java, Apache Server, MySQL and GNU/Linux;• Database management skills and a proven ability to write quick optimized database queries;• Experience with processing large quantities of data; |
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	<ul style="list-style-type: none"> • Experience with machine learning and data mining algorithms; • Knowledge of existing data standards, e.g. linked, open and semantic data.
Desirable:	<ul style="list-style-type: none"> • Experience with working with a large distributed computing platform, such as Hadoop, and information retrieval technologies, such as Lucene; • Proven ability to work with and create a robust, large data infrastructure; • Experience in the design and implementation of Web services and/or RESTful services.
<u>Personal abilities and qualities</u>	
Essential:	<ul style="list-style-type: none"> • Ability to quickly demonstrate understanding of the project aims and specific tasks as requested; • Self-starter in providing solutions to meet project needs; • Excellent written and oral communication skills; • Ability to work to challenging targets and deadlines • Ability to handle constructive feedback.
Desirable:	n/a

4. Role specific requirements e.g. Shift working

n/a

5. About the unit/department

The Knowledge Media Institute (KMi) of the UK's Open University is a highly successful interdisciplinary research centre founded at The Open University in 1995, and located in attractive premises at The Open University's main campus in Milton Keynes, UK. We offer a stimulating environment, widely acknowledged to be at the leading edge of research and development, particularly in Semantic Technologies, Human Computer Interaction, New Media and Information Retrieval. The style, impact and content of our work can be seen at <http://kmi.open.ac.uk/>

6. How to obtain more information about the role or application process

If you would like to discuss the particulars of this role before making an application please contact Professor Enrico Motta on +44 (0)1908 653506 or by email: enrico.motta@open.ac.uk, or Dr Francesco Osborne on +44 (0)1908 332948, or by email: francesco.osborne@open.ac.uk

If you have any questions regarding the application process please contact Ortenz Rose on +44 (0)1908 654774 or by email: ortenz.rose@open.ac.uk

7. The application process and where to send completed applications

Please ensure that your application reaches the University by:	23 June 2016
Post it to:	Ortenz Rose
Name/Job title:	Senior Co-ordinator - Staffing & Recruitment
Department/Unit:	The Knowledge Media Institute
Address:	The Open University, Walton Hall, MILTON KEYNES. Bucks
Post Code:	MK7 6AA
Or e-mail your application to:	kmi-recruitment@open.ac.uk

8. Selection process and date of interview

The interview panel will be chaired by:	Professor Enrico Motta
The other members of the interview panel will be:	Dr Francesco Osborne Dr Mathieu d'Aquin
The interviews will take place on:	date TBA
The selection process for this post will include...	...a review of applications by the Chair and selected members of the interview panel. a) Please ensure you complete all relevant sections of the application form. You are encouraged to also include a curriculum vitae; however CVs submitted <u>without</u> a completed application for employment form will not be accepted. b) You are also asked to provide a covering letter describing how your skills make you a suitable candidate for the post.

	<p>We will let you know as soon as possible after the closing date whether you have been shortlisted for interview. Further details on the selection process will also be sent to shortlisted candidates.</p> <p>Applications received after the closing date will not be accepted.</p>
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