

JOB DESCRIPTION

Vacancy reference:	KT19004
Post Title:	Data Scientist – KTP Associate
Grade:	£35,000 to £38,000 pa depending on qualifications and experience
School/Department:	School of Mathematical, Physical and Computational Sciences
Reports to:	Dr Varun Ojha UoR and Duncan Everett (Optimal Monitoring)
Responsible for:	None

Purpose

The University of Reading is pleased to be working on a collaborative Knowledge Transfer Partnership (KTP) project with Optimal Monitoring Ltd supported by academic colleagues in Computer Science. We have an exciting opportunity for a KTP Associate to develop a leading-edge automated system to analyse natural language user feedback and incorporate this into a software tool to address exceptional utility consumption in business premises. The role is for 24 months and is based full time at Optimal Monitoring in their office in High Wycombe, Buckinghamshire. It is anticipated that there will be scope for the role to continue at the end of the project for the successful candidate. This will be outside of the KTP and involve working directly for the company.

The main aim of the partnership is to focus on the development of a software tool through cutting edge research in machine learning and natural language processing. The academic team from UoR will provide relevant research input and guide the stages of the tool's development.

The KTP Associate will also communicate the outcomes of the project both internally and externally to relevant identified parties.

Main duties and responsibilities

The Associate will undertake research work in the project which includes:

- carry out investigation of relevant technologies in machine learning and NLP
- development tools frontend and backend systems
- carry out testing and integration of the tool
- regularly report on progress and results of the KTP within the University of Reading and the funders Innovate UK.
- prepare relevant documentation and manuals
- conduct interview and consultation with the company's clients when necessary

Supervision received

Day to day supervision will be provided by the designated supervisor at Optimal Monitoring. This is supplemented with regular visits and input from the academic team; Professor Lily Sun and Dr Varun Ojha.

Supervision given

None.

Contact

Regular contact will be with key partners involved with the KTP project; including appropriate contacts at Optimal Monitoring and the academic team in Computer Science at the University of Reading plus additional external contacts as appropriate.

Terms and conditions

A combination of the University of Reading and Optimal Monitoring Ltd T&Cs will be used. The KTP Associate will be supplied with T&C's from Optimal Monitoring which will be effective and work alongside the University of Reading T&C. Holiday entitlement will reflect Optimal Monitoring policy plus public holidays.

This document outlines the duties required for the time being of the post to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the line manager may vary duties from time to time which do not change the general character of the job or the level of responsibility entailed.

Date assessed: 29 April 2019

PERSON SPECIFICATION

Job Title	School/Department
Data Scientist – KTP Associate	Computer Science

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> Programming in Python, Java, JavaScript, Database management in SQL, 	<ul style="list-style-type: none"> Programming in C++ Knowledge of a frontend programming language Knowledge of engineering and management
Attainment	<ul style="list-style-type: none"> PhD in Computer Science in natural language processing or machine learning or relevant areas 	Knowledge of natural language processing
Knowledge	<ul style="list-style-type: none"> In-depth Knowledge of machine learning and natural language processing Knowledge of signal processing 	<ul style="list-style-type: none"> Knowledge of neural machine translation
Relevant Experience	<ul style="list-style-type: none"> Experience of working on projects 	<ul style="list-style-type: none"> One-two years' experience of post-doctoral position in machine learning and natural language processing
Disposition	<ul style="list-style-type: none"> Will to commute between company location and the university when necessary 	

Completed by: Dr Varun Ojha	Date: 8 April 2019
-----------------------------	--------------------