



**Job Title:** Reporting and Analytics Software Developer (KTP Associate)  
**Salary:** £28,000 to £34,000 per annum  
**Department:** School of Informatics  
**Hours/Contract:** Full time, fixed term contract for 24 months  
**Job Family:** Teaching and Research  
**Reference:** 2296

## Role Purpose

To project manage a Knowledge Transfer Partnership (KTP) which aims to develop innovative, new approaches to business intelligence reporting optimised by distributed machine learning (DML), high performance data analytics (HPDA) & cloud computing techniques. The post-holder will be under the direction of supervisors from the University of Leicester and Financial Performance Solutions Ltd.

### Main Duties and Responsibilities

- Management of a key, strategic project within Financial Performance Solutions Ltd (with support from academic and company supervisors), ensuring that all defined targets and outputs are met within the timeframe.
- Development of a new Reporting and Analytics Software system incorporating distributed machine learning (DML), high performance data analytics (HPDA) & cloud computing techniques.
- Facilitate the transfer of knowledge between the University of Leicester and Financial Performance Solutions Ltd.
- Engagement with other employees and engineers to ensure that the knowledge transferred is properly embedded and exploited.
- Preparation and presentation of progress reports at project team meetings.
- Personal development activities

### Internal and External Relationships

The post is based at the premises of Financial Performance Solutions Ltd in Derby.

The post-holder will be directly supervised by a Company Supervisor on a daily basis and will also receive mentoring from an Academic Supervisor as required by the post. The post-holder will be responsible for ensuring that appropriate information exchange is maintained between the company and academic partner.

### Planning and Organising

The post-holder will be working to a work plan as defined in the grant application proposal with specific tasks and outputs. However, the post-holder will be required to complete a more detailed action plan (e.g.: including a Gantt or Critical Path Network, and risk assessment, for the entire project and a detailed task list for all project stages).

### Qualifications, Knowledge and Experience

#### Essential

- MSc degree in computer science, mathematics, statistics or a related area. \*





- Practical experience of developing High Performance Data Analytics (HPDA) & Distributed Machine Learning (DML) algorithms \*
- Strong programming skills in Java and C++. \*
- Artificial Intelligence algorithms such as NN (Neural Networks) or CNN (Convolutional Neural Networks). \*
- Cloud computing based data storage & tools. \*
- Confidence in programming high-level spreadsheets. \*
- Data Integration techniques with respect to ensuring consistency between data sources. \*
- Familiarity with data analytics tools such as Hadoop, Spark & Deep Learning toolkits (such as TensorFlow or PyTorch). \*
- Ability to develop novel ML algorithms to extract information from multiple data sources.
- Database Management tools & techniques such as SQL Server
- Administration & database management skills. \*
- Web technologies such as ASP dot net, JavaScript etc. for web development to develop bespoke customer solutions for Analysis
- Familiarity with data reporting tools such as Power BI or SSRS & the ability to develop reporting models to analyse & generate data from disparate data sources

**Desirable**

- PhD degree in computer science, mathematics, statistics or a related area. \*
- Familiarity with Deep Learning &/or reinforcement learning is an additional advantage. \*
- Experience of handling large and complex datasets. \*
- Prior experience of successful independent or supervised research.
- Experience of dealing with senior staff in academia and industry.

**Skills, Abilities and Competencies**

**Essential**

- Ability to manage tight deadlines
- Good communication skills
- Responsible for thorough self-audit of solutions
- Can empathise with customer needs
- Understands change management
- Ability to implement change
- Ability to work as part of a team but also be 'autonomous'

**Desirable**

- Project management and business acumen.
- Ability to communicate precisely and engagingly to different audiences both in writing and verbally.
- Ability to work within a diverse development team comprising of academics and industrial partners and the wherewithal to impart new knowledge to the company team, embedding it through paired working, training and relevant 'how to' documents.
- Customer liaison skills.
- **\*Criteria to be used in shortlisting candidates for interview**





**Reason for Fixed Term Contract (DELETE IF NOT REQUIRED)**

The reason for the fixed term contract is stated in section 1.9 in the summary of contractual terms in your contract of employment.

**Criminal Declaration**

If you become an employee, you must inform your manager immediately, in writing, if you are the subject of any current or future police investigations/legal proceedings, which could result in a criminal offence, conviction, caution, bind-over or charges, or warnings.

**VITAL**

The University encourages all staff to live our [VITAL values](#) which are:  
**Valuing People, Innovators, Together, Accountable, Leaders.**

**Equality and Diversity**

We believe that equality, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equality support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equality, diversity and inclusion.

