

Job Title: Software Engineer (Knowledge Transfer Partnership (KTP))

Salary: £25,000 to £28,000 per annum

Department: Informatics

Hours/Contract: Full time, fixed term contract for 15 months.

Job Reference: 1670

Role Purpose

To project-manage a Knowledge Transfer Partnership (KTP) which aims to develop a secure, scalable, cyber-physical system for managing intelligent factories in the food processing industry.

The post-holder will be under the direction of supervisors from the University of Leicester and Millitec Food Systems Ltd.

Principal Responsibilities	% Time
<ul style="list-style-type: none"> • Management of a key, strategic project within Millitec Food Systems Ltd (with support from academic and company supervisors), ensuring that all defined targets and outputs are met within the timeframe. 	10
<ul style="list-style-type: none"> • Development and implementation of new, innovative cyber-physical system capable of managing intelligent factories in the food processing industry. 	70
<ul style="list-style-type: none"> • Transfer of knowledge between the University of Leicester and Millitec Food Systems Ltd. 	5
<ul style="list-style-type: none"> • Engagement with other employees and engineers to ensure that the knowledge transferred is properly embedded and exploited. 	5
<ul style="list-style-type: none"> • Preparation and presentation of progress reports at project team meetings. 	10
Internal and External Relationships	
<p>The post is based at the premises of Millitec Food Systems Ltd in Old Dalby, Leicestershire.</p> <p>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.</p> <p>The post-holder will be responsible for ensuring that appropriate information exchange is maintained between the company and academic partner.</p>	
Planning and Organising	
<p>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</p>	





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

- Degree qualification in Computer science or a related discipline*
- Experience in open-source projects (e.g. GitHub repos)
- Experience of programming languages and frameworks for developing web applications, e.g. Java/Spring, Javascript/Express, Ruby/Rails, Python/Django*
- Knowledge of Linux and Python

Desirable

- Experience of MEAN stack development, including knowledge of Javascript and its related tool ecosystem (React, Sequelize, Semantic-UI, Hapi, Nginx, Swagger / OpenAPI, Babel & Gulp & Mocha & ESLint).
- Experience of developing online cloud based services based on Node.js, Angular.js, MongoDB, Protractor and other
- Experience of Model-Driven Software Development (MDS) and model-driven engineering (MDE).
- Experience of agile methodologies and continuous delivery.
- Knowledge of Visualisation techniques.
- Prior experience of successful independent or supervised research.
- Experience of dealing with senior staff in academia and industry.

Skills, Abilities and Competencies

Essential

- Strong self-motivation and interest in cloud system development.
- Excellent team-working skills and the ability to liaise and collaborate with a wide range of people.
- Excellent problem solving skills.
- Project management and business acumen.
- Ability to work to a deadline.
- Willingness to take ownership of the project in all respects, including financial management, staff training, development of the commercial business case and full project leadership, encompassing management of resources and timing.

Desirable

- 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.
- Project management and business acumen.
- Customer liaison skills.

****Criteria to be used in shortlisting candidates for interview***

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.

