



## JOB DESCRIPTION

<b>Job Title:</b>	System Analyst/Developer (KTP Associate)
<b>Grade:</b>	E
<b>Salary</b>	£29-£34k plus £4k for training development
<b>School:</b>	School of Architecture, Computing & Engineering
<b>Duration</b>	24 Months
<b>Hours</b>	Full-time
<b>Location</b>	Techbuyer, Unit C1, Crimple Court, Hornbeam Square North, Harrogate HG2 8PB
<b>Responsible to:</b>	Academic supervisor & Industrial supervisor
<b>Liaison with:</b>	Academic Lead, other academic supervisors & Company staff

### Job Purpose:

The KTP Associate will investigate, design and develop a tool that embeds sophisticated data centre modelling capabilities focused on driving the circular economy and the green environment agenda. The post holder will perform requirements and scoping work (on data centre infrastructure elements, general data centre market, etc.); create appropriate mathematical models representing the operational environment and overall tool architecture; develop and test the tool; and commission the tool within a production environment.

### Main Duties:

- Carry out an in-depth investigation into the relevant data centre technologies and market analysis
- Analyse the Company's business processes, existing software, systems and technologies
- Design specifications for the system architecture, prototype, testing and usability
- Explore appropriate mathematical models to represent the relevant data centre operational environment
- Design tests & experiments to evaluate different solutions
- Develop the system based on the identified requirements and specifications
- Analyse, review and evaluate limitations and capabilities of solutions
- Test the efficiency and overall quality of the system and its procedural/performance outcomes
- Run field trials at pilot customer sites
- Study new business opportunities based on the services made possible by the tool

### General Duties and Responsibilities:

- Undertake the work-plan as defined in the KTP proposal and as agreed by the Local Management Committee
- Maintain and present project management documentation to effectively manage the KTP Project
- Maintain effective communication between the academic and company supervisors
- Organise and lead monthly project team meetings and actively contribute to the Local Management Committee meetings
- Provide executive summary and present project updates with proposals for future plans
- Collaborate in the development of academic papers and case studies as agreed with the project team
- Participate in the development of promotional events as needed by the Company or the University
- Act as an ambassador for University of East London and Knowledge Transfer Partnerships
- Ensure compliance with University Health & Safety requirements and regulations and apply the University's Equal Opportunities Policy in general conduct
- Take personal responsibility to develop and maintain a personal development plan

This document outlines the duties required for the KTP associate post and to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the duties may be varied by the project team.

## PERSON SPECIFICATION

### KTP Associate

#### System Analyst/Developer (KTP Associate)

#### EDUCATION, QUALIFICATIONS AND ACHIEVEMENTS:

##### *Essential criteria*

1. Good honours degree in Computer Science, Computer Engineering or other relevant areas (A)

##### *Desirable Criteria*

2. Post-graduate qualification or PhD in Computer Science or other relevant subject areas (A)

#### KNOWLEDGE AND EXPERIENCE:

##### *Essential criteria*

The role holder is required to show knowledge in one or more of the following skills (A/I):

1. Excellent software development skills (Java/C/C++)
2. Knowledge/Awareness of Energy Efficiency issues in Data Centres
3. Knowledge/Awareness of various Cloud Computing technologies
4. Knowledge of statistics and quantitative data analysis techniques
5. Mathematical modelling
6. Research skills

##### *Desirable Criteria*

Knowledge in one or more of the following technical skills (A/I):

1. Web development experience
2. Knowledge/Awareness of relevant Data Centre Energy Efficiency standards and best practices (e.g. EU Code of Conduct)
3. Software development skills within a live production environment

#### COMMUNICATION:

##### *Essential criteria*

1. Good interpersonal skills, with ability to communicate effectively both verbally and in writing with a variety of stakeholders (A/I).

#### PLANNING AND ORGANISATION:

##### *Essential criteria*

1. Demonstrable experience of being able to plan and prioritise workloads, ensuring deadlines are met; keeping clear and appropriate records (A/I).

#### TEAMWORKING, PERSONAL ATTRIBUTES AND QUALITIES:

##### *Essential criteria:*

1. Demonstrable commitment and contribution to a multi-disciplinary team (A/I).
2. Experience of working on own initiative (A/I)

#### OTHER ESSENTIAL CRITERIA

1. Able to demonstrate an understanding of equality and diversity, and its practical application (A/I).

**Criteria tested by Key:**

A = Application form

C = Certification

I = Interview

T = Test