

Hertfordshire County Council Job Outline



JOB TITLE:	Software Engineer & Data Analyst
GRADE:	M1
REPORTS TO:	Data Scientist & Engagement Lead
DEPARTMENT:	Adult Care Services
TEAM:	Assistive Technology

PURPOSE OF THE JOB

To design, contribute to and realise the benefits and value of Internet of things (IoT) Analytics in relation to Hertfordshire services, ensuring alignment with the Council's overall Digital agenda.

The post holder will be expected to use their knowledge of data gathering and interpretation to support the effective commissioning and targeted delivery of IoT technology solutions across the County and to work with various stakeholders in achieving this.

MAIN AREAS OF RESPONSIBILITY

Accountabilities/Responsibilities:

- Identify, research, gather and interpret information from a variety of sources, including the internet and data systems, to prepare draft analyses / reports
- Collate, analyse and present information/data in an understandable manner
- To use experience and knowledge of data and statistical methods to contribute to and support commissioning strategies, decisions and innovation in service solutions
- Deal with specific queries by deciding and advising on the most appropriate data sources and how the information will be analysed and presented
- To make use of data and analytical techniques to enable work with other organisations, agencies and service users to develop services
- To work with front line staff and delivery managers to implement 'real life' solutions

- To analyse and present information and recommendations to partners and internal stakeholders
- To understand and use statistical software packages / libraries
- To implement foundational analytical platforms and specific functional solutions efficiently to ensure HCC realises value for money
- To identify, maintain and use data sources to enable effective monitoring and development of IoT solutions

EQUAL OPPORTUNITIES

Hertfordshire County Council is committed to openness and equality of opportunity in every activity, from the way we employ staff to the way we deliver services. It is a central responsibility of members, managers and employees of the County Council to ensure that every individual that we come into contact with is treated with dignity and respect. A copy of the full policy, entitled Putting People First will be given to all staff, and a full briefing on the contents of the policy is included in induction.

CRIMINAL RECORDS BUREAU

This post is classed as having a high degree of contact with children or vulnerable adults and is exempt from the Rehabilitation of Offenders Act 1974. An enhanced disclosure will be sought through the Criminal Records Bureau as part of Hertfordshire County Council's pre-employment checks. Please note that additional information referring to the Criminal Records Bureau is in the guidance notes to the application form. If you are invited to an interview you will receive more information.

HEALTH AND SAFETY

It will be the duty of every employee while at work to take reasonable care for the Health and safety of themselves and of other persons who may be affected by their acts or omissions at work.

PERSON SPECIFICATION

Qualifications

- Education to degree level or equivalent

Skills and Experience:

- Education to degree level or equivalent
- Coding in JavaScript, Typescript, SQL & Python at minimum
- Familiarity with development of analytic solutions in the Microsoft Azure environment Inc. familiarity with Event hubs, Azure Functions
- Familiarity with Lora Wan, Z-Wave, BLE technologies and to understand the benefits and limitations of each
- Database management skills including schema development, use of triggers and stored procedures. Familiarity with NoSQL environments such as

Cosmos.

- Familiarity with Analysis Architectures as it pertains to Ingestion, storage, dissemination (e.g. Operation Data storage vs. Data Lake)
- Capable of applying machine learning technologies to analytical problems
- Interpret user requirements and develop system requirements proposals within agreed frameworks
- To analyse, design and develop new database systems and/or Information management/analysis models.
- Strong quantitative skills
- Ability to manipulate information and present in the language of the target audience
- Ability to interpret complex user requirements and present analysis in a format that is understandable to the user
- Ability to work independently and flexibly and to prioritise and manage own workload,
- Excellent oral and written communication and presentation skills with the ability to verbally explain an information/statistical concept
- Build sufficiently strong understanding of existing and emerging technologies to be able to have an influence on user requirements and specifications and act in a consultancy role.
- Carry out acceptance testing and quality checking of support and project activities.
- Undertake and co-ordinate research and analysis to support the delivery of corporate policies and priorities.
- Accurately maintain support/project documentation and work within change control system.
- Experience of presenting a case orally and in writing, to influence and persuade
- Experience of working with multiple agencies and stakeholders
- Excellent communication and partnership working skills
- Use of management information to inform decisions and strategy
- Understanding of how to handle data sensitively, especially when dealing with client identifiable information.
- Showing proficiency in Microsoft Office

Personal Effectiveness

- Demonstrates passion and purpose about contribution you/your team make to HCC and the Citizens of Hertfordshire
- Uses a range of communication styles to influence decisions and actions
- Identifies opportunities for co-operation and cross working amongst teams and organisation
- Identifies and breaks down barriers to effective partnership working
- Deals effectively with pressure
- High degree of self-awareness
- Self-motivated and able to carry out tasks without supervision
- Flexible and adaptable and has a 'can do' approach
- Demonstrates high energy and a visible commitment to getting results

