

## Job Description

Job Title: Advanced Public Health Analyst (GIS specialist)

POSCODE: CCC1526

Grade: P2 - one year fixed term

### Overall purpose of the job

The Advanced Analyst (GIS specialist) will be responsible for designing and implementing several large geospatial products to support the work of the public health team, using Arc-GIS software. These will need to be underpinned by excellent data management, leadership and stakeholder engagement. The postholder will work collaboratively across Cambridgeshire County Council, Peterborough City Council and with partners in health, district/city councils, social care, emergency services, and other statutory and voluntary organisations. This is a shared post between Cambridgeshire County Council/Peterborough City Council but the post holder will be employed by Cambridgeshire County Council and will work in the shared Public Health Intelligence team.

The projects will include, but not limited to:

- Creating a vulnerable persons GIS system to be able to respond to emergency situations, such as flooding
- Healthy Streets mapping
- Fuel Poverty
- Mapping to inform the pharmaceutical needs assessment

### Main accountabilities

Please list the accountabilities in descending order of priority. Please include 6-9 accountabilities.

Main accountabilities	
1.	To lead the design, implementation and development of new and impactful Geospatial (GIS) data and information visualisations for Cambridgeshire County Council, Peterborough City Council and with partners in health, district/city councils, social care, emergency services and other statutory and voluntary organisations. To ensure that the GIS products include robust, timely, comprehensive and well-presented information to support decision making, service response to challenges, and ongoing population health and wellbeing surveillance.
2.	To provide expert advice, input and guidance with regard to GIS and public health intelligence using considerable professional judgement and GIS expertise to provide informed, evidenced and experience based decisions and products.
3.	To support the delivery, strategic development and promotion of GIS products and intelligence datasets, analytical and GIS methodologies across Cambridgeshire County Council, Peterborough City Council, and with partners in health, district/city councils, social care, emergency services and other statutory and voluntary organisations, taking lead responsibility for specific GIS products and services.
4.	To analyse, investigate and resolve health and wellbeing issues using advanced GIS methods and techniques that affect health and wellbeing policy, public health service delivery and wider stakeholder policy and service delivery.
5.	To lead and ensure the collection, management, analysis and delivery of comprehensive data and information through ongoing surveillance and GIS product development to enable

	provision of services and to improve and protect the health of Cambridgeshire and Peterborough's population.
6.	To lead the development and maintenance of data management, statistical and GIS methodologies relevant to GIS product development within the Public Health Directorate.
7.	To lead on the development and delivery of training covering the GIS products for Cambridgeshire County Council, Peterborough City Council and with partners in health, district/city councils, social care, emergency services and other statutory and voluntary organisations, to ensure awareness and safe use of the GIS products, resources and good practice within each organisation.
8.	Where relevant, to work closely with other local authority staff, the local NHS, Public Health England and other partners to deliver and support joint strategic needs assessments, other partnership needs assessments, commissioning support, service redesign and performance monitoring frameworks.

**Safeguarding commitment** *(Include for roles involving work with children/vulnerable adults)*

We are committed to safeguarding and promoting the welfare of children and young people/vulnerable adults. We require you to understand and demonstrate this commitment.

## Person Specification

### Qualifications, knowledge, skills and experience

Minimum level of qualifications required for this job

Qualifications Required	Subject	Essential/ Desirable
Postgraduate/higher degree qualification to Masters Level in public health, epidemiology or a related discipline, or demonstrable appropriate relevant experience.	Subject relevant to and using GIS	Essential
Bachelor's degree (BA / BSc with honours) at level 2:2 or above.	Subject relevant to and using GIS (or subject with high analytical content)	Essential

Minimum levels of knowledge, skills and experience required for this job

Identify	Describe	Essential/ Desirable
<b>Knowledge</b>		
Statistical, analytical, GIS and data management software and databases.	Thorough knowledge of the range of software applicable to the management and delivery of a public health intelligence service and the proven practice based knowledge to apply knowledge to service issues.	Essential
Data visualisation software and information delivery.	Knowledge of the tools and software available to enable the online delivery of complex information and the knowledge of presentation techniques to enable effective dissemination and use by non-expert users.	Essential
Data and information management.	Knowledge to design, implement and maintain GIS data management solutions (ideally using Arc-GIS) that can effectively deal with a large range of data, evidence and information and to understand and apply the governance issues and how they relate to health data and intelligence.	Essential
Information sources and resources.	Wide ranging knowledge of key information and evidence sources related to population health and wellbeing and the knowledge to collect, store, analyse and disseminate these resources.	Essential
Public health and the context of public health in local authority and NHS settings.	Underpinning knowledge of the context, role, remit and statutory duties of public health and knowledge of the key practices of public health and the contribution that epidemiology can make to these.	Desirable

	Understanding of the wider determinants of health and their impact on population health and wellbeing.	
Public health commissioning and service delivery and NHS commissioning.	Knowledge of the range and key priorities for public health commissioning and service delivery and NHS commissioning and practical knowledge of the contribution of public health information and epidemiology.	Desirable
General ICT knowledge.	Expert knowledge in the potential and use of MS Office applications and software.	Essential
<b>Skills</b>		
Management, assimilation and presentation of information.	<p>Ability to coherently source, structure and manage a wide range of information resources and be able to present them for maximum effectiveness to a range of audiences.</p> <p>Ability to design, implement, evaluate and advise on a range of data and intelligence approaches.</p> <p>Ability to identify and exploit routine and non-routine data sources to improve local health intelligence.</p> <p>Ability to advise on and apply a range of quantitative and qualitative data collection, collation and analytical methods to produce health intelligence</p> <p>Ability to scope and resolve complex analytical problems.</p> <p>Ability to assure the quality of data collection, collation, analysis and communication.</p> <p>Ability to translate and communicate findings into appropriate recommendations.</p>	Essential
ICT skills.	High level of skills in subject area specific and general software and the ability to use these skills to provide and develop innovative software driven solutions. Advanced use of spreadsheet, database and GIS packages (ideally Arc-GIS) and ability to apply these to complex intelligence and epidemiological analyses	Essential
Communication.	Ability to identify & evaluate user needs for data analysis, to negotiate user specifications for analysis. Ability to present complex information to audiences of all types and abilities in a	Essential

	variety of settings using written and verbal techniques.	
Teaching and training skills.	Ability to teach and train experts and non-experts in GIS.	Essential
Planning and organisational.	Ability to manage a large, diverse and complex caseload across multiple organisations with varying priorities and deadlines. Requires good negotiation skills, as well as project management skills.	Essential
Ability to work to tight deadlines and under pressure.	Ability to effectively deal with demands from a range of individuals and organisations for data and information at short notice to tight deadlines and to provide accurate, thorough and robust outputs.	Essential
Working with people.	Ability to work well with people of all levels and to manage and supervise staff.	Essential
Leadership and innovation.	Ability to lead programme areas within public health intelligence and to develop and maintain innovative solutions to key areas of responsibility, including data and information management, data visualisation, GIS and knowledge transfer.	Essential
Critical appraisal and judgement.	Critical appraisal and analytical skills for interpreting qualitative and quantitative information and the ability to make pragmatic judgements about the right information to provide for the issue to hand.	Essential
Delegated responsibilities.	Ability to represent public health intelligence and public health at local, regional and national meetings and other settings.	Essential
<b>Experience</b>	Give an idea of the type and level of experience required <b>do not</b> specify years of experience.	
GIS analytical methods and techniques.	Expert and sustained experience of applying complex analytical and GIS methods and theories to health and wellbeing related and other data sets, preferably in NHS and/or local authority settings.	Essential
GIS, statistical, analytical, data visualisation and data management software and databases	Expert and sustained experience of using analytical and statistical tools such GIS software and Microsoft product.	Essential
Data and information management.	High level experience of managing large volumes of complex data and enabling	Essential

	the ongoing use of that data by analytical services.	
Information sources and resources.	Expert / high level experience of using a range of information and evidence to address health and wellbeing problems and to provide ongoing population health and wellbeing surveillance.	Essential
Practical use of information	Expert knowledge and experience of using NHS information sources, and of non-NHS information sources relevant to public health and commissioning.	Desirable
Partnership working	Experience of managing and collaborating on projects across and within own organisation and across other agencies.	Essential
Equality, Diversity and Inclusion (applies to all roles.	Ability to demonstrate awareness and understanding of equality, diversity and inclusion and how this applies to this role.	