

Job Specification

GIS Engineer

Responsible to:	Principal Engineer
Grade:	Senior
Salary:	To be agreed
Hours of work:	37 hours per week
Work location:	Oakley, Bedford

Role Purpose:

Support GIS development and the analysis of GIS data for use in UXV mission planning, executing and review.

Key Responsibilities:

- Integration of dynamic geospatial data sources (Weather, ADS-B, AIS, Traffic, Population).
- Development of tools, and associated outputs, combining GIS layers (static and dynamic) to provide live (real-time), forecast and historical data analysis for coverage areas and risk analysis.
- Generating terrain data from UAV flight imagery and updating terrain databases.
- Create representative building models for terrain databases.

Other Duties and Responsibilities

- To actively participate in Blue Bear's Performance Management Scheme.
- To undertake such other duties and responsibilities as may be reasonably required within the grade and level of the post.
- You will be expected to perform different tasks as necessitated by your evolving role within the company and the overall business objectives of the company. Some travel within the UK and internationally may be required.

Equality and Diversity

We are committed to the promotion of equality of opportunity in all of our activities and to encouraging access to our organisation from all groups irrespective of the equality strands. We are working to create an environment in which cultural diversity and individual difference are positively valued in an atmosphere free from harassment and discrimination. We take our legal and moral obligations with respect to equal opportunities seriously and welcome dialogue with individuals on ways in which our equal opportunities policies and practice can be enhanced.

Health and Safety

The organisation together with the assistance of all employees are fully committed to developing a positive safety culture.

We encourage and support employees becoming involved in and participating in health, safety and welfare matters. Our goal is to motivate and empower all employees to work safely and protect their long-term health, not simply to avoid accidents.

PERSON SPECIFICATION

Education/Qualifications			
<i>Essential:</i>	S/L	I	A
• Batchelor's degree in GIS engineering (or similar)	X		
<i>Desirable:</i>			
• Higher degree (e.g., Masters/PhD) in GIS engineering (or similar)	X		
Knowledge and Experience			
<i>Essential:</i>			
• GIS experience.	X		
• JAVA.	X		
• Good grounding in all types of geospatial data.	X		
• Good grounding in standard geospatial application use cases.	X		
• Competent JAVA programmer for building GIS applications.	X		
• Integration of dynamic geospatial data sources (Weather, ADS-B, AIS, Traffic, Population).	X		
• Development of tools, and associated outputs, combining GIS layers (static and dynamic) to provide live (real-time), forecast and historical data analysis for coverage areas and risk analysis.	X		
<i>Desirable but not essential:</i>			
• Use of multispectral data survey and agri-tech applications	X	X	
• Use of Hyperspectral data for remote survey and agri-tech applications	X	X	
• Understanding of NDVI	X	X	
• Producing building models from 2D imagery	X	X	
• Generating terrain data from UAV flight imagery and updating terrain databases.	X	X	
• Experience of Luciad Fusion and Luciad LightSpeed	X	X	
• Experience of building GRIB/other weather data into GIS applications	X	X	
• Luciad	X	X	
• ADS-B / AIS	X	X	
• Software Configuration Management, Git, SVN	X	X	
Personal/Behavioural Attributes			
<i>Essential:</i>			
• Good analytical and communication skills	X	X	
• Confident and articulate with good communication skills	X	X	
• Excellent verbal and written communication skills	X	X	
• Excellent organisation skills	X	X	
• Cooperative teamwork	X	X	
• Able to work cross-functionally and collaboratively	X	X	
• Prepared to travel within the UK and internationally	X	X	
Other Requirements			
Subject to security vetting to a minimum SC level	X		

S/L = Short Listing I= Interview A=Assessment