

# Job Specification

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## Java Software Engineer

**Responsible to:** Head of Software Engineering

**Grade of post:** Scientist / Senior

**Salary:** To be agreed

**Hours of work:** 37 hours per week

**Work location:** Oakley, Bedford

### Role Purpose:

You will be required to support a mixture of R&D and product development activities within a leading autonomy and unmanned systems company. Blue Bear continuously innovates within the core area of Unmanned Aerial Systems (UAS/UAV) such as autopilots, mission systems, ground control stations, and all supporting systems and infrastructure.

You will be keen to get involved in all development areas, and have a good track history/ proven track record in both problem solving and quality software development.

Your role as a Software Engineer will involve designing, implementing and testing java applications and system software. This will include improving existing software and developing new features.

### Key Responsibilities

- Primarily, your role will be to assist in the design, implementation and test of Java software to support both experimental activities and product development, ensuring security and redundancy considerations are met.
- Take lead and responsibility for a few java software modules that fit into the wider system.
- Develop unit tests for ease of test and integration of your modules.
- You will be responsible for delivery, reporting and presentation of technical work and writing and submitting any necessary documentation.
- Development of Java desktop applications and service orientated modules to support flight and simulation activities.
- Support field trials and simulation testing

## **Other Duties and Responsibilities**

- To undertake such other duties and responsibilities as may be reasonably required within the grade and level of the post.
- The opportunity will enable to gain knowledge of cutting-edge autonomous systems.
- 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 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

<b>Education/Qualifications</b>	<b>S/L</b>	<b>I</b>	<b>A</b>
<i>Desirable:</i>			
• Degree in Software Engineering or STEM discipline with a demonstrable aptitude for Software Engineering	<b>X</b>		
<b>Knowledge and Experience</b>			
<i>Essential:</i>			
• Java 8 or higher	<b>X</b>	<b>X</b>	<b>X</b>
• Multithreading programming	<b>X</b>	<b>X</b>	<b>X</b>
• Object Oriented design knowledge		<b>X</b>	
• Software development lifecycle experience		<b>X</b>	
• Technical documentation – requirements, design, test, user guides		<b>X</b>	
• Quality driven development		<b>X</b>	
• Software version control and configuration understanding		<b>X</b>	
<i>Desirable</i>			
• 5 - 10+ years software development experience	<b>X</b>		
• Service oriented Architecture understanding		<b>X</b>	
• Database development and integration		<b>X</b>	
• Experience with Windows and Linux environment		<b>X</b>	
• Unified Modelling Language (UML) and Enterprise Architect tool		<b>X</b>	
• Avionics background		<b>X</b>	
• Scrum and Agile		<b>X</b>	
• JIRA - Application Lifecycle Management tool		<b>X</b>	
<b>Personal/Behavioral Attributes</b>			
<i>Essential:</i>			
• Creative and innovative thinker		<b>X</b>	
• Excellent problem-solving skills		<b>X</b>	
• Good analytical and communication skills		<b>X</b>	
• Passion for innovation		<b>X</b>	
• Ability to work to tight deadlines		<b>X</b>	
• Team player		<b>X</b>	
<b>Other Requirements</b>			
<b>Subject to security vetting to a minimum BPSS level</b>	<b>X</b>		

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