

# Job Specification

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## Modelling & Simulation Engineer

<b>Responsible to:</b>	Air Combat Simulation Lead
<b>Grade:</b>	Senior
<b>Salary:</b>	To be agreed
<b>Hours of work:</b>	37 hours per week
<b>Work location:</b>	Farnborough – Due to the nature of this work this role is office based

### Role Purpose:

Part of a SQEP team developing models to support Combat Air system OA and ITEA activities.

Models will cover the following areas:

- Aircraft Performance
- Sensors and Signatures
- Electronic Warfare (Attack and Defence)
- Command and Control (C2)
- Weapons
- Integrated Weapon Systems (IWS)

It is not expected that applicants will be able to cover all these areas individually, instead the aim is to cover these areas across the team members.

### Key Responsibilities:

- Work collaboratively as an integral part of a modelling and simulation team delivering parametric and analytic modelling in support of OA and ITEA.
- Production, population and documentation of data and models to an appropriate fidelity for:
  - Use in Synthetic Environments
  - Use in distributed simulations environments using standard messaging protocols (e.g. DIS, HLA)
- Sanity checking model performance and simulation results through cross-checking with other sources of information and engineering estimates.
- Requirements capture and, Validation and Verification of model performance and simulation results against requirements.
- Review documentation for accurate technical content and quality to ensure it meets the required high standards.
- Generate documentation (User Guides, Interface Control Documents, Delivery Notes, Verification and Validation reports) for models, simulations and applications developed by the team at an appropriate level for the expected end user's technical ability.

## **Other Duties and Responsibilities**

- Occasional travel to engage with MOD in London.
- 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.

## **What's in it for you**

- Work in a highly motivated SME at the cutting edge of Engineering. See your work rapidly progress to live testing in a matter of months not years.
- Competitive Salary
- Pensions
- Life Cover 5x your salary
- Income Protection Cover
- BUPA Medical and Dental
- Health Cash Plan
- Employee Assistance Programme
- Refer a Friend Reward Scheme

## **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>			
<i>Essential:</i>	<b>S/L</b>	<b>I</b>	<b>A</b>
• Batchelor's degree in Aerospace engineering (or similar)	<b>X</b>		
Desirable:			
• Higher degree (e.g. Masters/PhD) in Aerospace engineering (or similar)	<b>X</b>		
<b>Knowledge and Experience</b>			
<i>Essential:</i>			
• Relevant Modelling experience (in at least one of the following) <ul style="list-style-type: none"> <li>○ Aircraft performance</li> <li>○ Sensors (IR, RF, Passive)</li> <li>○ Signatures (IR, RF)</li> <li>○ EW</li> <li>○ C2</li> <li>○ Weapons (AA, SAM, ASM, DEW)</li> <li>○ IWS</li> </ul>	<b>X</b>		
• Systems engineering lifecycle including: <ul style="list-style-type: none"> <li>○ Systems design and requirements capture</li> <li>○ Testing, verification and validation</li> </ul>	<b>X</b>		
• Process development and documentation	<b>X</b>		
Desirable:			
• Distributed Simulation Experience (DIS, HLA)		<b>X</b>	
<b>Personal/Behavioural Attributes</b>			
<i>Essential:</i>	<b>S/L</b>	<b>I</b>	<b>A</b>
• Cooperative teamwork		<b>X</b>	
• Confident and articulate with good communication skills		<b>X</b>	
• Occasional travel to london		<b>X</b>	
<b>Other Requirements</b>			
<b>Subject to security vetting to a minimum SC level</b>	<b>X</b>		
<b>Restricted to UK Nationals (no dual nationals)</b>	<b>X</b>		

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