

Job Specification

Model Based Systems Engineer

Responsible to: Head of Engineering

Grade of post: Senior

Salary: To be agreed

Hours of work: 37 hours per week

Work location: Oakley, Bedford

Role Purpose

Formulate conceptual design of unmanned vehicles or systems to meet customer requirements using MBSE tools and methods. Support and coordinate activities of engineering or technical personnel designing, manufacturing, modifying, or testing of aircraft or aerospace products using MBSE models. Develop MBSE tools, methods and processes within Blue Bear System Research to be utilized across projects.

Key Responsibilities:

- Process Development – develop and embed MBSE tools, methods and processes within Blue Bear Systems Research.
- Use and demonstrate the use of MBSE tools to capture the design process workflow from:
 - Requirements capture and evaluation
 - Preliminary and Detailed Design
 - Define ground and flight-testing programmes on prototypes vehicles and systems.
 - Capturing and communicating evidence showing compliance to requirements
- Providing technical process advice to team members.
- Act as the focal point for Systems Engineering on projects as required.
- Undertaking theoretical and practical research at System or Subsystem level.
- Use SysML modelling to assist creation of Airworthiness/Certification evidence for projects as required.
- Act as model librarian on projects as required to maintain the quality and consistency of models through the design/test/write-up process.
- Attending project reviews and meetings with external business clients.
- Giving presentations to managers and clients.

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 may be required.

The above is not an exhaustive list of duties. 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.

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
• BEng/ CEng in Mechanical/Aerospace/Electronics/Control/Systems Engineering	X		
<i>Desirable:</i>	X		
• MSc/ PhD in Mechanical/Aerospace/Electronics/Control/Systems Engineering	X		
• Member of industry related Professional Body	X		
• Enterprise Architect Literate	X		
Knowledge and Experience			
<i>Essential:</i>			
• Proficiency with planning and reviewing of technical work through formal gate events (e.g., SRR, PDR, CDR, MRR, TRR, PRR)	X		
• Proficient in SysML	X		
• Knowledge of Systems Engineering processes/workflows	X		
• Delivery, reporting and presentation of technical and experimental work	X		
• Appropriate IT Skills including full MS Office Suite	X		
<i>Desirable:</i>			
• Knowledge of Enterprise Architect	X		
Personal/Behavioural Attributes			
<i>Essential:</i>			
• Good analytical and communication skills	X	X	
• Strong technical leadership competencies	X	X	
• Attention to detail balanced with high process overview/ improvements	X	X	
• Confident and articulate with good communication skills	X	X	
• Excellent verbal and written communication skills	X	X	
• Excellent organisation skills	X	X	
• Excellent problem-solving skills	X	X	
• Able to work cross-functionally and collaboratively		X	
Other Requirements			
Subject to UK MoD security clearance vetting to a minimum SC level	X		

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