

Job Specification

UAV Pilot/ Technician

Responsible to: Operations Director

Grade of post: Technician

Salary: Negotiable

Hours of work: 37 hours per week

Work location: Oakley, Bedford

Role Purpose:

Post-holder will be expected to test-fly unmanned aerial vehicles during development stages. Conduct demonstration flights with customers and government officials to display performance abilities. Work with pilots, design engineers, and others to develop autopilot software controlling all aspects of UAV flight, augmenting navigation systems to improve performance in a range of flight conditions.

In the capacity of a Mechanical Lab Technician the post-holder will be expected to contribute to the in-house physical prototyping capability of Blue Bear. Hence, it is expected that the Mechanical Lab Technician will have basic skills in fabrication techniques, in metal working and wood working, shaping, cutting, sawing, smoothing/polishing, airbrush, painting/finishing in general (spray gun, WBP, 1K, 2K, Cellulose), decorating, etc. Skilled use of the '*Foam, hotglue and tape*' wing construction technique is required. Experience with fibre-glass composite moulding equipment (epoxies and styrenes as required) is also of advantage.

Key Responsibilities:

Working People

Co-operating/Liaising

- Work collaboratively as an integral part of a small team delivering a successful flight trial flights and ensuring vehicle ready state
- Ability to be able to work independently with guidance from Engineering on the service and re-commissioning of existing airframes which haven't been in current use for an extended period of time.

Working with information Assessing/Evaluating

- Verification of aircraft construction QA
- Vehicle Flight Assessment and airworthiness
- Maintenance of the UAV platform

Physical Activities Using Tools

Workshop building and construction of aircraft:

- Use of workshop tooling
- Use of workshop Composites facilities
- Use of workshop spray booth
- Vehicle Battery Management and battery charging supervision (Li-Po, Li-Ion, NiMH, Lead-Acid cells and vehicle battery packs)
- CNC 3D mill/router machining (Carbon sheet, EPP 3D, soft metals)
- 2D & 3D manual milling

Physical Activities Using Machinery/Equipment/Vehicles

Future Mechanical Lab / Workshop capabilities:

- CNC 3D mill/router machining (Carbon sheet, EPP 3D, soft metals)
- 2D & 3D manual milling

Examples of Typical Responsibilities:

- Vehicle and Subsystems Prototyping
- Where no suitable COTS or bespoke part can be sourced, taking the lead in exploring the Modified-COTS route.
- Vehicle Battery Management and battery charging supervision (Li-Po, Li-Ion, NiMH, Lead-Acid cells and vehicle battery packs)

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.

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
• Model aircraft piloting skills (fixed-wing and multi-rotor)	X	X	X
• BMFA 'B' Fixed wing	X	X	
• BMFA 'A' Rotary wing	X	X	
• Fully proficiency and competent in interpreting 2D manufacturing drawings	X	X	
• Ability to advise on the Design for Manufacturing (DFM) based on a review of the available in-house prototyping processes	X	X	
• Ability to interpreting 2D manufacturing drawings	X	X	
• CAD skills (ideally SolidWorks)	X	X	
• CNC Coding (ideally embedded uController code)	X	X	
Knowledge and Experience			
<i>Essential:</i>			
• Operational Safety Case (OSC) development / creation experience	X		
• Excellent Communication Skills		X	
• Highly motivated team player		X	
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Personal/Behavioral Attributes			
<i>Essential:</i>	S/L	I	A
• Safety-driven mentality			
Other Requirements	X	X	
Safety Critical Role			
Subject to security vetting to a minimum SC level			

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