UxV Platform and Concepts Engineer

**Responsible to: Head of Engineering**

**Grade**  Senior/Principal (DoE)

**Salary:**  £\*\*\*\*\* per annum

**Hours of work:** 37.5 hours per week

**Work location:** Oakley, Bedford

**Role Purpose:**

We are seeking a highly motivated engineer to help bridge the gap with customers, stakeholders and the internal technical team to produce concepts, primarily for UAV platforms and associated equipment (such as launch systems), analyze their suitableness and lead their maturation, detailed design and eventual build.

You will take ownership of BlueBear platform designs, modifying them when required to meet project requirements and ensuring they are fit for purpose in the trials and experiments that we do. This will involve understanding how to integrate a range of equipment as well as their performance. You may also support the Flight Operations team to organize and be part trials in the UK, Europe and further afield.

**Key Responsibilities:**

* Work with the Business Development and internal technical teams to understand and capture customer requirements and produce high level novel concepts of candidate solutions considering e.g. airframe, propulsion or payloads.
* Supervise, perform or collaborate with Subject Matter Experts to ensure initial modelling and analysis is performed that allows appropriate concepts to be matured through into a complete design that meets system level requirements.
* Perform, analyse and work with the team to agree the trade offs required around endurance, size, speed and other factors during the UAV design process (e.g. Control Surface design).
* Contribute to the long-term company UAV platform strategy aligned with company goals, customer viewpoints and general market trends.
* Evaluate emerging technologies and trends and how they impact new and existing platforms (e.g. Use of Additive Manufacture).
* Support Flight Testing and Evaluation.

**Desirable Skills and Qualifications**

* Bachelor’s, Master’s or PhD in Aerospace Engineering, Robotics, Mechatronics, Systems Engineering, or related field
* Experience in Matlab/Simulink, Solidworks, CFD Packages or other relevant tools and software.
* Experience in UAV development, aerospace systems, or advanced platform engineering.
* Experience in the authoring of Whitepapers, technical proposals or other reports to a wide audience.
* Demonstrated ability to consider End to End Systems Engineering during projects.
* Experience running small, cross disciplinary teams. This may include mentoring or coaching of less experienced engineers.
* An understanding of moving from single one off to mass production (e.g. DfM)
* Understanding or experience of UAV regulations such as SORA, supplier selection and management,
* Excellent communication and agile working skills

**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 is fully committed to developing a positive safety culture.

We encourage and support employees by 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.