



### UAV Design Engineer

**Grade: Engineer**

**Salary: Negotiable**

**Location: Bedford, United Kingdom**

***Are you looking to develop your career in mechanical engineering design? Do you want to work within a team and learn from the very best?***

Blue Bear are a leading supplier of innovative research and product-based solutions in the field of unmanned systems, mission systems, avionics, sensor payloads and data exploitation. Our capabilities include design and development of entire unmanned systems, fully autonomous guidance systems, Ground Command & Control Systems, flight service provision, flight safety case delivery, advanced modelling & simulation and unmanned system certification. Our growing facilities allow the full system development cycle to be conducted largely in house, with employees encouraged to participate in as many areas of the design-build-test phase as possible.

#### **Ideal Candidate**

Background in Mechanical Engineering (Degree), Product Design or other relevant studies.

Good understanding of Aerospace or Automotive principles and technologies and knowledge of mechanical engineering design.

Experience with CAD software, preferably Solidworks, including related engineering analysis packages (e.g. FEA). The focus will be on lightweight structure design, Composite Part Design and Assemblies, primary and secondary actuation systems and Generative Surface Design. Experience of Design For Manufacturing (DFM) and Design To Cost (DTC) would be highly advantageous to the role.

Experience and broad set of engineering skills across the full system lifecycle of unmanned vehicles.

Ideally, experience with the composite part detail process, including composites stacking sequence lamination theory, honeycomb core, bonded assemblies, manufacturing assembly and fabrication processes, post-cure machining operations.

Familiar with industry standards for the manufacture, repair and assembly of composite components for aerospace. Willing to learn certification standards and AS9100 quality system.

### **Your Role**

Reporting directly to the Head of Engineering, the successful candidate will have a hands-on approach and a strong desire to succeed. This role represents an exciting opportunity to contribute to the mechanical and structural side of the business with strong prospects of career advancement into technical leadership for the right candidate.

#### ***Essential requirements:***

- BA/BEng/CEng.
- Some experience in mechanical, aerospace or automotive engineering.
- Proficient in CAD (Solidworks), related analysis suite (FEA).
- Good theory-based knowledge.
- Excellent and proven ability to manage technically complex, large value data.
- Good analytical skills.
- Enthusiasm for engineering.
- Excellent problem-solving skills.
- Creative and innovative thinker and planner.
- Able to work multi projects in fast paced environment.
- Keen to work as part of a team.
- Good communication skills.

#### ***Desirable (non essential):***

- MA/MSc
- Background in unmanned vehicles, aerospace/drones/UAVs.
- Agile and Scrum management process.
- AS9100 Quality adherence.
- Good product design knowledge.
- Model aircraft related hobbies.
- Supply chain management.
- Ability to use external engineering analysis software, such as Abacus, Altair Hyperworks Optistruct.
- Health and Safety qualification (IOSH or NEBOSH).
- Member of an Industry related Professional Body

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.

Due to the nature of this role the successful candidate will be required to undertake security clearance to a minimum SC level with Blue Bear support.