



## **Mechanical Engineer (Boston)**

Top Flight Technologies ([www.topflighttech.com](http://www.topflighttech.com)) – the first commercial UAV manufacturer to utilize a hybrid propulsion engine for extended flight and enhanced payloads is seeking a Mechanical Engineer to be part of its engineering team. We are looking for individuals that have core design and problem-solving expertise, and that can work individually and on team project assignments. The work environment is centered on agile development, where designs are quickly tested, problems resolved, ideas improved, products built and tested. Candidates should have a passion for building innovative product solutions.

Yes, this is a well-funded startup; the work is demanding, but also interesting. You will be grasping new skills while working with other bright and energetic engineers and team members.

### **Essential Responsibilities/ Job Duties:**

- Contribute to the design and development of mechanical/electromechanical systems.
- Work closely with more senior team members, filling in where help is needed.
- Generate concepts and solutions for new products as well as provide engineering support for existing products.
- Participate in the all phases across multiple projects of design; DFMA, cost reductions.
- Evaluate product non-conformances and recommend design modifications.
- Evaluate, test, and review designs to verify performance to requirements and specifications.
- Investigate and determine root cause of emerging design, manufacturing or material defects.
- Analyze and provide feedback on collaborative design review forum.
- Contribute to thermal analysis, thermal management system design and thermal testing.

### **Qualifications:**

- Bachelor's degree in Mechanical Engineering, Aerospace Engineering or equivalent from an accredited university.
- 0-2 years of experience in mechanical design and manufacturing.
- 0-2 years of experience with robotics or complex electro/mechanical systems.

**Desired Skills:**

- Knowledge of heat transfer, thermal management, and cooling of motors and/or electronics.
- Experience in strength of materials, materials selection, design for vibration environments and the ability to apply those principles to unique mechanical design challenges.
- The ability to perform structural analysis using industry simulation tools.
- Ability to build working prototypes, utilizing 3D printing and other machinery for iterative design.
- Experience with Solidworks or similar CAD program.
- Experience designing parts for sheet metal, CNC machining, and assembly.
- Experience with rapid prototype design and build for proof of concept and usability testing.
- Strong computer skills (MS Word, Excel, PowerPoint, Internet).
- Experience with unmanned systems (Fixed wing & VTOL platforms), flight controllers, power systems, sensors, navigation, communications, and RC based products.

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

- Work side by side with a world-class technology and business leadership team that is defining new markets in the growing domain space of unmanned systems and where the solutions are recognized as industry leaders.
- Tremendous growth opportunity; competitive compensation package including base salary, stock options and benefits.

You must be authorized to work in the United States on a full-time basis for any employer.

**PLEASE COMPLETE THE MECHANICAL ENGINEER SURVEY** (next page) and send with resume to [jobs@topflighttech.com](mailto:jobs@topflighttech.com) for consideration.

No agencies please.



Top Flight Technologies  
Mechanical Engineer Job Application Survey

Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

1. Please rate your abilities in the following areas:

	Excellent	Good	Fair	Poor	n/a
Mechanical design					
CAD					
Teamwork					
Thermodynamics					
Manufacturing					
Electrical engineering					
Fabrication & Assembly					
Drones					

2. What was one of your favorite projects in college and why?